GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Saiha **Period:** 26 April – 30 April, 2017

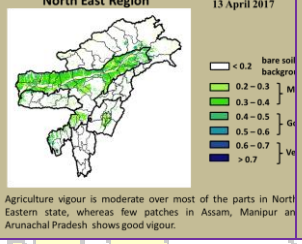
Bulletin No: - 695/2017/ Bulletin/English **Date of issue:** 25th April, 2017

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	27	30	30	29
Min Temp (ºC)	20	20	18	21	20
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	92	98	98	98	98
Min RH (%)	55	49	45	38	39
Wind Speed (KmpH)	3	2	0	2	2
*Wind Direction	S-E	S-E	E	E	E

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

STATUS OF MONSOON- 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	Weather forecast valid from 26th April, 2017 To 30thApril, 2017.
Maximum Tem. (ºC):23-25ºC **Minimum Tem. (ºC):**15-16ºC **Maximum RH (%):**96-98% **Minimum RH (%):**48-79% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind Speed:** 3-4 km/hr **Rainfall:** 154.3 mm	There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-30ºC and 18-21ºC. Maximum relative humidity is expected in the range of 92-98% and minimum may from 38-55%. Wind direction would southeaster to easterly with the wind speed of 0-3 km per hour. Clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **00.0 mm**
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.
	Moderately wet mildly dry/mildly wet conditions

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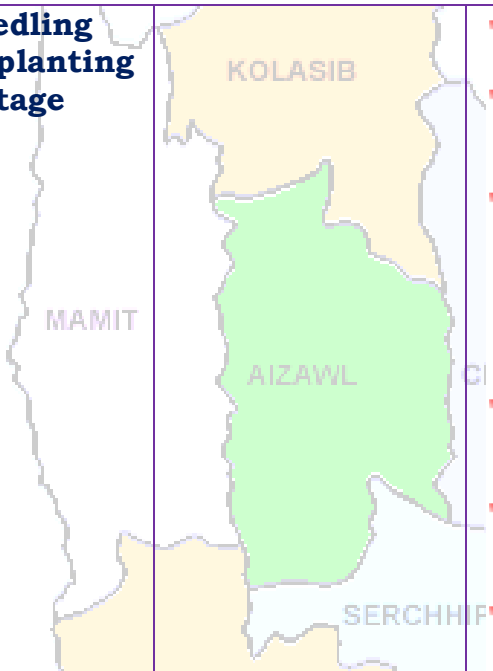
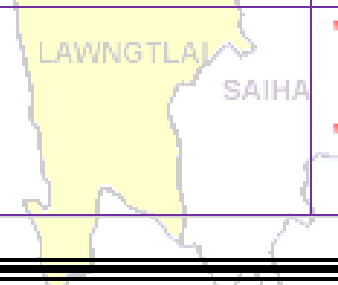
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Seedling transplanting stage**		✦ Fruit palnt should be planted in a sunny and wind-protected area. ✦ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ✦ 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.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	✦ **Die back**- 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. ✦ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. ✦ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✦ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
Passion Fruit	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds.

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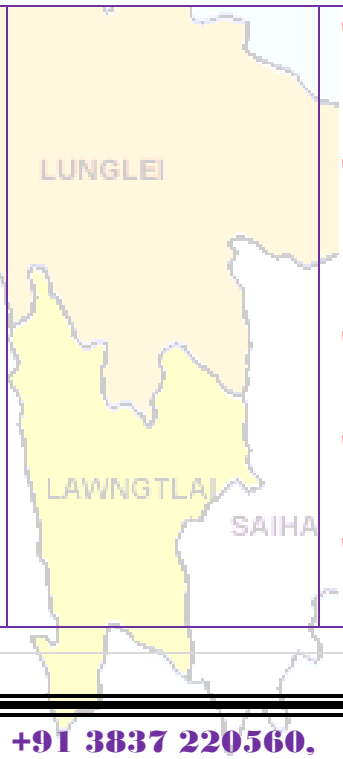
			✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✦ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✦ The flowering emergence will come out after 55-60 days after chemical spraying. ✦ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✦ Remove all unwanted leaves, branches and weed near to the plant.
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 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

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			interval.
Rubber	**Nursery stage**		✦ 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			
Pre Kharif Rice	**Nursery stage**		✦ Use only Well filled and healthy seeds. ✦ Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. ✦ Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✦ Mulching is requiring for better germination in nursery.
***Jhum* Rice**	**Sowing stage**		✦ Sowing in ridge and furrow. ✦ Mulching with grass for better germination. ✦ Intercropping with greengram and bunchy type frenchbean.
Maize (*Jhum*)	**Sowing stage**		✦ 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, P_2O_5 and K_2O/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**		✦ 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

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			for effective control. Remove the alternate host *Oxalis comiculata.*
Potato	**Harvesting stage**		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**	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**		Plough the field properly, at least 2-3 times. Mix fertilizer with FYM 50:60:60Kg /ha. Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	**Sowing stage**		Rhizome should be treated with Thiram @4 g/kg seed. Use optimum seed rate (50-60 kg/ha) for desire plant population.

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			✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	**Sowing stage**		✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha ✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. ✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ 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**		• 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**	• Black Quarter Vaccine (BQV).

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		(BQ)	❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Litter management**		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	**0-3 rd week**	✚ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**3rd-4th weeks**	✚ 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.
			✚ 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.

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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	26th April– 30th April, 2017 chhunga sik leh sa dinhmun tur tlangpui
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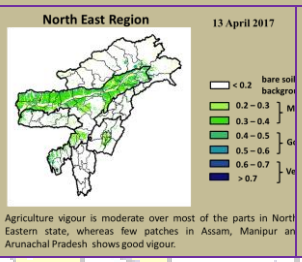
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / 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 tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan 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 *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		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, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ 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.
		Phytopthora blight	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		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 HUSBENDARY			
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 chhunzawm 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 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 enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation (Dil buatsaih)	**3rd-4th weeks**	✦ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			✦ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ✦ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			✦ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ✦ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Serchhip **Period:** 26 April – 30 April, 2017

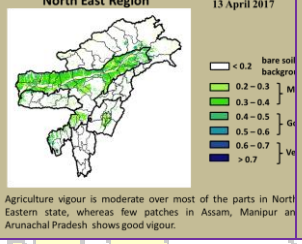
Bulletin No: - 695/2017/ Bulletin/English **Date of issue:** 25th April, 2017

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	29	30	32	30	30
Min Temp (ºC)	20	19	19	21	22
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	97	99	100	100	100
Min RH (%)	58	51	49	39	43
Wind Speed (KmpH)	2	0	2	2	2
*Wind Direction	S	S-W	S-W	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	Weather forecast valid from 26th April, 2017 To 30thApril, 2017.
Maximum Tem. (ºC):25-26ºC **Minimum Tem. (ºC):**16-18ºC **Maximum RH (%):**99-100% **Minimum RH (%):**67-85% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 3-4 km/hr **Rainfall:** 175.00 mm	There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-32ºC and 19-22ºC. Maximum relative humidity is expected in the range of 97-100% and minimum may from 39-58%. Wind direction would be southerly to southwesterly and easterly with the wind speed of 0-2 km per hour. Clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **00.0 mm**
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour. Moderately wet mildly dry/mildly wet conditions

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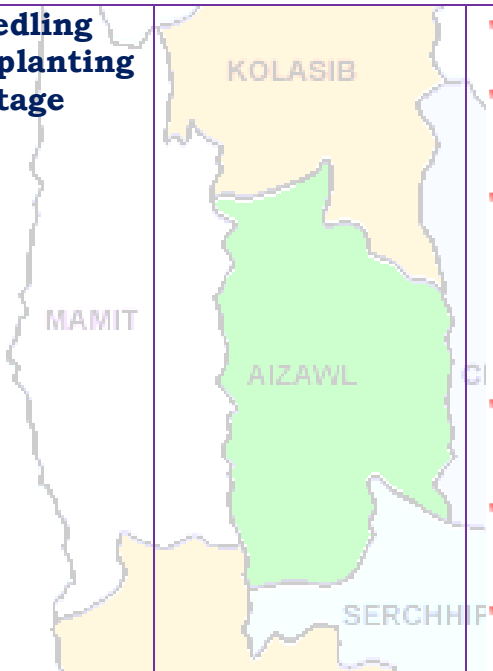
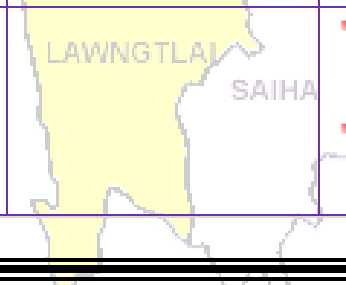
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Seedling transplanting stage**		✦ Fruit palnt should be planted in a sunny and wind-protected area. ✦ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ✦ 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.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	✦ **Die back**- 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. ✦ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. ✦ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✦ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
Passion Fruit	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds.

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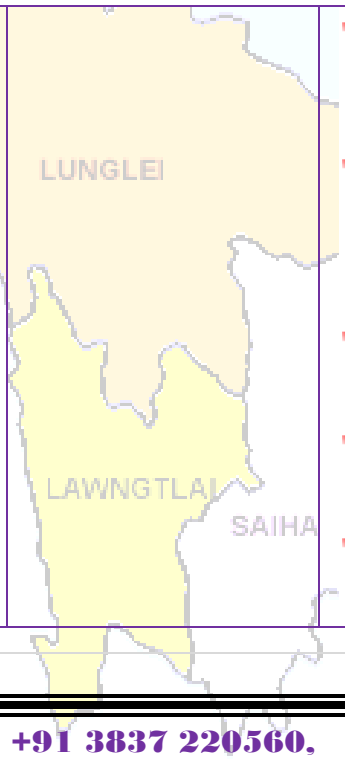
			✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✦ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✦ The flowering emergence will come out after 55-60 days after chemical spraying. ✦ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✦ Remove all unwanted leaves, branches and weed near to the plant.
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 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

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			interval.
Rubber	**Nursery stage**		✦ 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			
Pre Kharif Rice	**Nursery stage**		✦ Use only Well filled and healthy seeds. ✦ Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. ✦ Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✦ Mulching is requiring for better germination in nursery.
***Jhum* Rice**	**Sowing stage**		✦ Sowing in ridge and furrow. ✦ Mulching with grass for better germination. ✦ Intercropping with greengram and bunchy type frenchbean.
Maize (*Jhum*)	**Sowing stage**		✦ 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, P_2O_5 and K_2O/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**		✦ 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

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			for effective control. Remove the alternate host *Oxalis comiculata.*
Potato	**Harvesting stage**		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**	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**		Plough the field properly, at least 2-3 times. Mix fertilizer with FYM 50:60:60Kg /ha. Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	**Sowing stage**		Rhizome should be treated with Thiram @4 g/kg seed. Use optimum seed rate (50-60 kg/ha) for desire plant population.

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			✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	**Sowing stage**		✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha ✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. ✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ 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**		• 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**	• Black Quarter Vaccine (BQV).

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		(BQ)	❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Litter management**		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	**0-3 rd week**	✚ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**3rd-4th weeks**	✚ 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.
			✚ 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.

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

District: Serchhip **Period: 26 April – 30 April, 2017**

Bulletin No: - 695/2017/ Bulletin/Mizo **Date of issue: 25th April, 2017**

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	0	0	0
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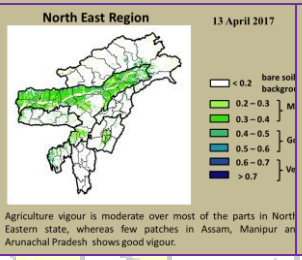
Min Temp (ºC)	20	19	19	21	22
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	97	99	100	100	100
Min RH (%)	58	51	49	39	43
Wind Speed (KmpH)	2	0	2	2	2
***Wind Direction**	S	S-W	S-W	E	E

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	26th April– 30th April, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):25-26ºC **Minimum Tem. (ºC):16-18ºC** **Maximum RH (%):99-100%** **Minimum RH (%):67-85%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 3-4 km/hr** **Rainfall: 175.00 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-32ºC a ni ang a. A vawh lai ber in 19-22ºC ni tura beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 39-58% ni tur a rin niin. Thli hi darkar khatah 0-2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 00.0mm**

NDVI for Mizoram		
	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.	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 tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan 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 *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		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, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ 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.
		Phytopthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		- 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 HUSBENDARY			
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 chhunzawm 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 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 enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation (Dil buatsaih)	**3rd-4th weeks**	✦ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			✦ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ✦ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			✦ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ✦ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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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:** 26 April – 30 April, 2017

Bulletin No: - 695/2017/ Bulletin/English **Date of issue:** 25th April, 2017

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	5	6	0
Max Temp (ºC)	29	30	32	30	30
Min Temp (ºC)	20	19	19	20	20
Cloud Coverage	Mainly clear	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	97	99	100	99	99
Min RH (%)	67	57	61	47	50
Wind Speed (KmpH)	4	2	3	2	3
*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. (ºC):23-26ºC
Minimum Tem. (ºC):15-18ºC
Maximum RH (%):89-97%
Minimum RH (%):80-95%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3-4 km/hr

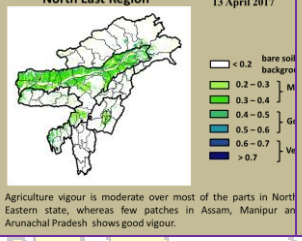
Rainfall: 195.3 mm

Weather forecast valid from 26th April, 2017 To 30thApril, 2017.

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 29-32ºC and 19-20ºC. Maximum relative humidity is expected in the range of 97-100% and minimum may from 47-67%. Wind direction would be southerly to southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: **11.0 mm**

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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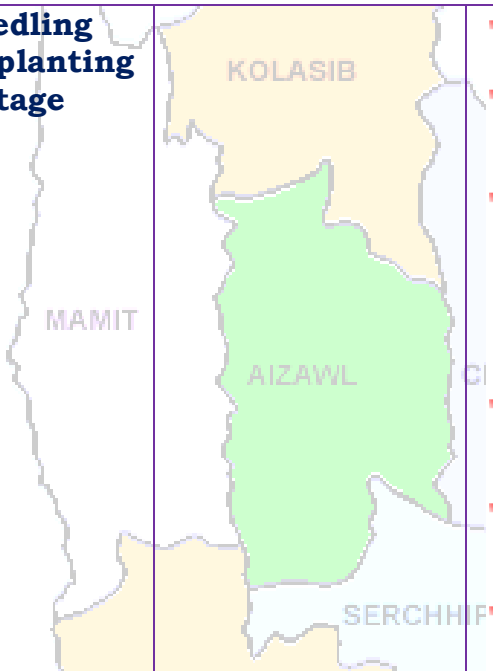
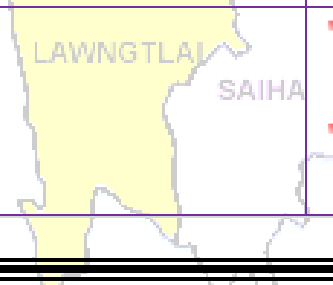
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Seedling transplanting stage**		✦ Fruit palnt should be planted in a sunny and wind-protected area. ✦ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ✦ 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.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	✦ **Die back**- 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. ✦ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. ✦ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✦ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
Passion Fruit	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds.

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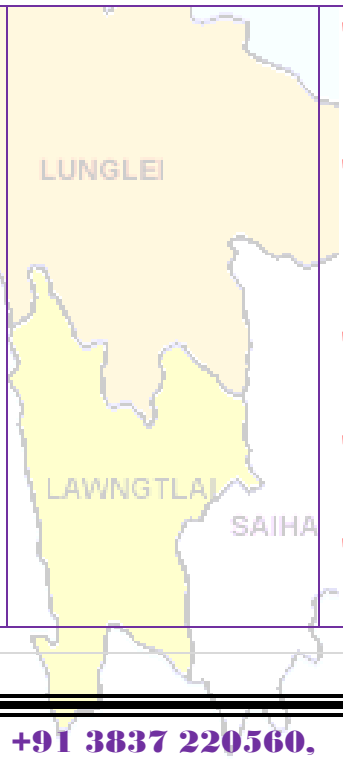
			✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✦ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✦ The flowering emergence will come out after 55-60 days after chemical spraying. ✦ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✦ Remove all unwanted leaves, branches and weed near to the plant.
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 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

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			interval.
Rubber	**Nursery stage**		✦ 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			
Pre Kharif Rice	**Nursery stage**		✦ Use only Well filled and healthy seeds. ✦ Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. ✦ Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✦ Mulching is requiring for better germination in nursery.
***Jhum* Rice**	**Sowing stage**		✦ Sowing in ridge and furrow. ✦ Mulching with grass for better germination. ✦ Intercropping with greengram and bunchy type frenchbean.
Maize (*Jhum*)	**Sowing stage**		✦ 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, P_2O_5 and K_2O/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**		✦ 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

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			for effective control. Remove the alternate host *Oxalis comiculata.*
Potato	**Harvesting stage**		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**	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**		Plough the field properly, at least 2-3 times. Mix fertilizer with FYM 50:60:60Kg /ha. Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	**Sowing stage**		Rhizome should be treated with Thiram @4 g/kg seed. Use optimum seed rate (50-60 kg/ha) for desire plant population.

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			✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	**Sowing stage**		✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha ✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. ✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ 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**		• 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**	• Black Quarter Vaccine (BQV).

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		(BQ)	❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Litter management**		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	**0-3 rd week**	✚ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**3rd-4th weeks**	✚ 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.
			✚ 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.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Aizawl **Period: 26 April – 30 April, 2017**

Bulletin No: - 695/2017/ Bulletin/Mizo **Date of issue: 25th April, 2017**

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	5	6	0
Max Temp (ºC)	29	30	32	30	30
Min Temp (ºC)	20	19	19	20	20
Cloud Coverage	Mainly clear	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	97	99	100	99	99
Min RH (%)	67	57	61	47	50
Wind Speed (KmpH)	4	2	3	2	3
*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. (ºC):23-26ºC
Minimum Tem. (ºC):15-18ºC
Maximum RH (%):89-97%
Minimum RH (%):80-95%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3-4 km/hr

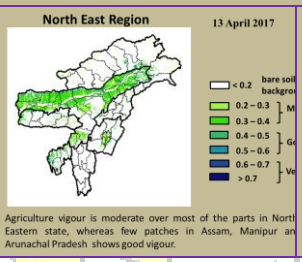
Rainfall: 195.3 mm

26th April– 30th April, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-32ºC a ni ang a. A vawh lai ber in 19-20ºC ni tura beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 47-67% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **11.0mm**

NDVI for Mizoram



Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

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 tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan 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 *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		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, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ 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.
		Phytopthora blight	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		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 HUSBENDARY			
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 chhunzawm 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 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 enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation (Dil buatsaih)	**3rd-4th weeks**	✦ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			✦ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ✦ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			✦ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ✦ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period:** 26 April – 30 April, 2017

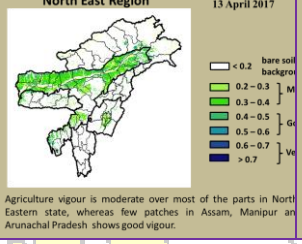
Bulletin No: - 695/2017/ Bulletin/English **Date of issue:** 25th April, 2017

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	6	0	5	4	4
Max Temp (ºC)	29	31	33	31	30
Min Temp (ºC)	20	20	19	21	20
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	94	94	91	92	94
Min RH (%)	58	49	51	37	44
Wind Speed (KmpH)	2	2	3	2	2
*Wind Direction	S	S-W	S-W	S	S

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

STATUS OF MONSOON- 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	Weather forecast valid from 26th April, 2017 To 30thApril, 2017.
Maximum Tem. (ºC):22-25ºC **Minimum Tem. (ºC):**14-17ºC **Maximum RH (%):**96-98% **Minimum RH (%):**70-87% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind Speed:** 4-5 km/hr **Rainfall:** 181.0 mm	There are chances of light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 29-33ºC and 19-21ºC. Maximum relative humidity is expected in the range of 91-94% and minimum may from 37-58%. Wind direction would be southerly to southwesterly and southerly with the wind speed of 2-3 km per hour. Partially clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **19.0 mm**
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour. Moderately wet mildly dry/mildly wet conditions

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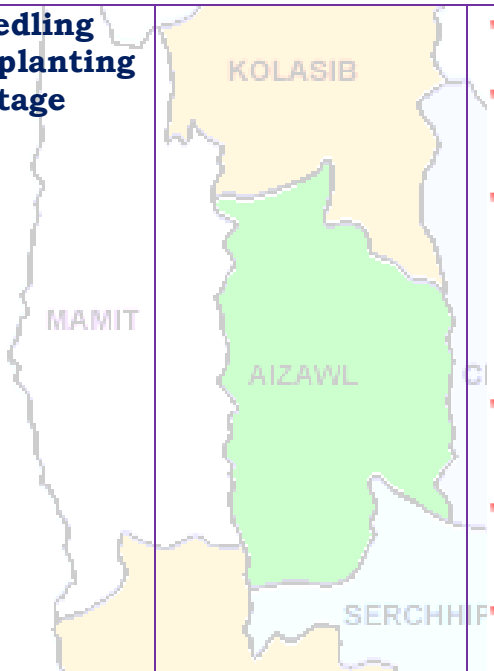
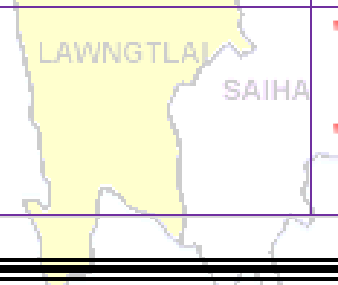
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Seedling transplanting stage**		✦ Fruit palnt should be planted in a sunny and wind-protected area. ✦ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ✦ 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.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	✦ **Die back**- 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. ✦ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. ✦ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✦ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
Passion Fruit	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds.

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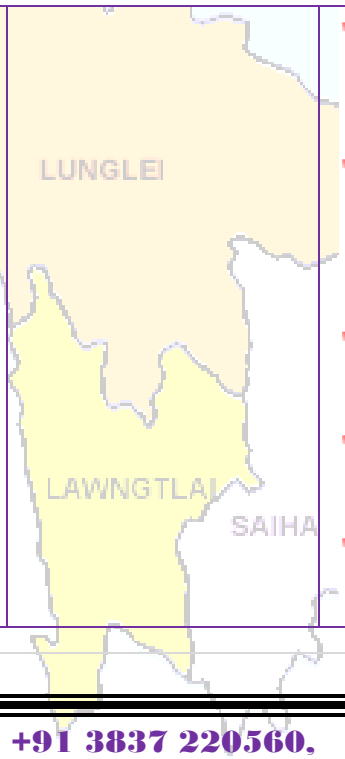
			✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✦ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✦ The flowering emergence will come out after 55-60 days after chemical spraying. ✦ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✦ Remove all unwanted leaves, branches and weed near to the plant.
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 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

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			interval.
Rubber	**Nursery stage**		✦ 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			
Pre Kharif Rice	**Nursery stage**		✦ Use only Well filled and healthy seeds. ✦ Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. ✦ Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✦ Mulching is requiring for better germination in nursery.
***Jhum* Rice**	**Sowing stage**		✦ Sowing in ridge and furrow. ✦ Mulching with grass for better germination. ✦ Intercropping with greengram and bunchy type frenchbean.
Maize (*Jhum*)	**Sowing stage**		✦ 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, P_2O_5 and K_2O/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**		✦ 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

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			for effective control. Remove the alternate host *Oxalis comiculata.*
Potato	**Harvesting stage**		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**	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**		Plough the field properly, at least 2-3 times. Mix fertilizer with FYM 50:60:60Kg /ha. Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	**Sowing stage**		Rhizome should be treated with Thiram @4 g/kg seed. Use optimum seed rate (50-60 kg/ha) for desire plant population.

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			✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	**Sowing stage**		✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha ✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. ✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ 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**		• 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**	• Black Quarter Vaccine (BQV).

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		(BQ)	❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Litter management**		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	**0-3 rd week**	✚ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**3rd-4th weeks**	✚ 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.
			✚ 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.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period: 26 April – 30 April, 2017**

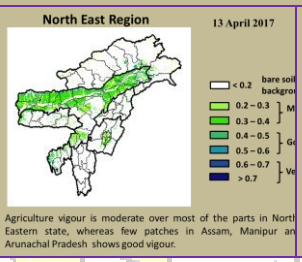
Bulletin No: - 695/2017/ Bulletin/Mizo **Date of issue: 25th April, 2017**

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	6	0	5	4	4
Max Temp (ºC)	29	31	33	31	30
Min Temp (ºC)	20	20	19	21	20
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	94	94	91	92	94
Min RH (%)	58	49	51	37	44
Wind Speed (KmpH)	2	2	3	2	2
***Wind Direction**	S	S-W	S-W	S	S

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

STATUS OF MONSOON- 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	26th April– 30th April, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):22-25ºC **Minimum Tem. (ºC):14-17ºC** **Maximum RH (%):96-98%** **Minimum RH (%):70-87%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind Speed: 4-5 km/hr** **Rainfall: 181.8 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-33ºC a ni ang a. A vawh lai ber in 19-21ºC ni tura beisei a ni. RH san lai berin 91-94% leh a hniam lai berin 37-58% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 19.0mm**
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.
	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 tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan 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 *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		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, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ 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.
		Phytopthora blight	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		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 HUSBENDARY			
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 chhunzawm 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 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 enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation (Dil buatsaih)	**3rd-4th weeks**	✦ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			✦ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ✦ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			✦ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ✦ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Kolasib **Period: 26 April – 30 April, 2017**

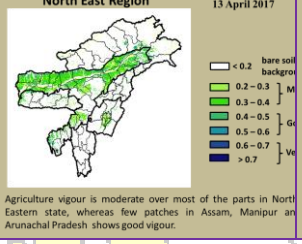
Bulletin No: - 695/2017/ Bulletin/English **Date of issue: 25th April, 2017**

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	4	5	6	5	3
Max Temp (ºC)	30	30	31	31	31
Min Temp (ºC)	21	20	20	21	21
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	98	99	99	98	99
Min RH (%)	73	61	65	50	52
Wind Speed (KmpH)	4	2	3	2	3
***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	Weather forecast valid from 26th April, 2017 To 30thApril, 2017.
Maximum Tem. (ºC):23-26ºC **Minimum Tem. (ºC):**15-18ºC **Maximum RH (%):**98-100% **Minimum RH (%):**84-96% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 3-4 km/hr **Rainfall:** 178.7 mm	There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 20-21ºC. Maximum relative humidity is expected in the range of 98-99% and minimum may from 50-73%. Wind direction would be southerly to southeasterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **23.0 mm**
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur an Arunachal Pradesh shows good vigour. Moderately wet mildly dry/mildly wet conditions

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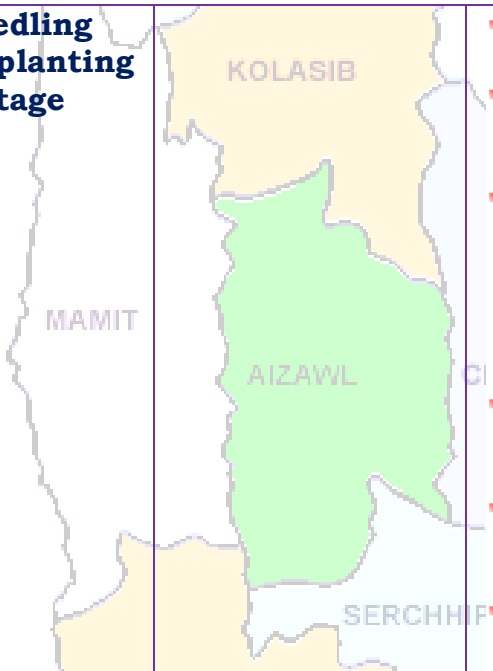
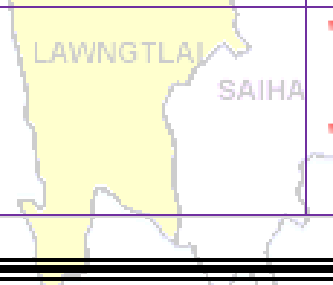
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Seedling transplanting stage**		✦ Fruit palnt should be planted in a sunny and wind-protected area. ✦ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ✦ 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.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	✦ **Die back**- 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. ✦ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. ✦ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✦ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
Passion Fruit	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds.

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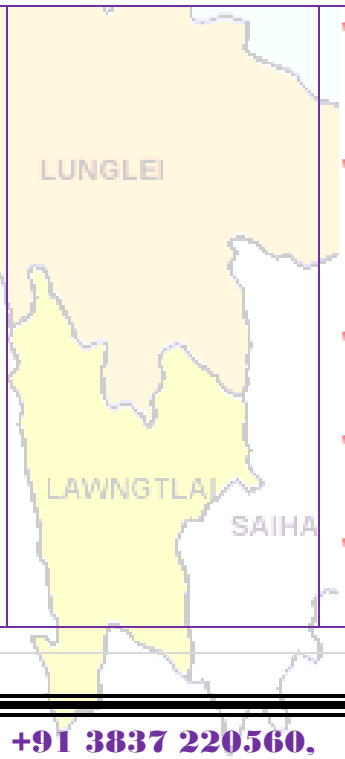
			✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✦ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✦ The flowering emergence will come out after 55-60 days after chemical spraying. ✦ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✦ Remove all unwanted leaves, branches and weed near to the plant.
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 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

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			interval.
Rubber	**Nursery stage**		✦ 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			
Pre Kharif Rice	**Nursery stage**		✦ Use only Well filled and healthy seeds. ✦ Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. ✦ Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✦ Mulching is requiring for better germination in nursery.
***Jhum* Rice**	**Sowing stage**		✦ Sowing in ridge and furrow. ✦ Mulching with grass for better germination. ✦ Intercropping with greengram and bunchy type frenchbean.
Maize (*Jhum*)	**Sowing stage**		✦ 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, P_2O_5 and K_2O/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**		✦ 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

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			for effective control. - Remove the alternate host *Oxalis comiculata.*
Potato	**Harvesting stage**		- 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**	- 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**		- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha. - Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	**Sowing stage**		- Rhizome should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (50-60 kg/ha) for desire plant population.

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			✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	**Sowing stage**		✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha ✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. ✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ 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**		• 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**	• Black Quarter Vaccine (BQV).

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		(BQ)	❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Litter management**		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	**0-3 rd week**	✚ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**3rd-4th weeks**	✚ 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.
			✚ 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.

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

District: Kolasib **Period: 26 April – 30 April, 2017**

Bulletin No: - 695/2017/ Bulletin/Mizo **Date of issue: 25th April, 2017**

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
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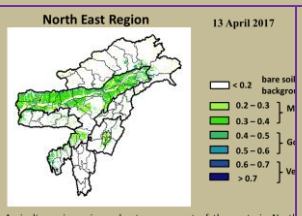
***Wind Direction**	S	S	S	S-E	S-E

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	26th April– 30th April, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):23-26ºC **Minimum Tem. (ºC):15-18ºC** **Maximum RH (%):98-100%** **Minimum RH (%):84-96%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 3-4 km/hr** **Rainfall: 178.7 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31ºC a ni ang a. A vawh lai ber in 20-21ºC ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 50-73% 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. ***Weekly cumulative rainfall:* 23.0mm**
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.
	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 tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan 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 *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		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, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ 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.
		Phytopthora blight	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		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 HUSBENDARY			
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 chhunzawm 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 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 enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation (Dil buatsaih)	**3rd-4th weeks**	✦ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			✦ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ✦ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			✦ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ✦ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Lawntlai **Period:** 26 April – 30 April, 2017

Bulletin No: - 695/2017/ Bulletin/English **Date of issue:** 25th April, 2017

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	30	30	29
Min Temp (ºC)	21	21	20	22	21
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	91	96	97	97	97
Min RH (%)	56	51	47	42	42
Wind Speed (KmpH)	6	4	2	4	4
*Wind Direction	S-E	S-E	E	E	E

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

STATUS OF MONSOON- 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. (ºC): 24-27ºC
Minimum Tem. (ºC): 16-19ºC
Maximum RH (%): 94-97%
Minimum RH (%): 50-79%
Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 3-4 km/hr

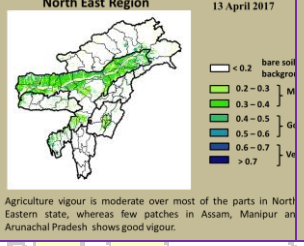
Rainfall: 147.2 mm

Weather forecast valid from 26th April, 2017 To 30thApril, 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 27-30ºC and 20-22ºC. Maximum relative humidity is expected in the range of 91-97% and minimum may from 42-56%. Wind direction would be southeasterly to easterly with the wind speed of 2-6 km per hour. Partially 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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Seedling transplanting stage**		✦ Fruit palnt should be planted in a sunny and wind-protected area. ✦ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ✦ 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.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	✦ **Die back**- 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. ✦ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. ✦ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✦ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
Passion Fruit	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds.

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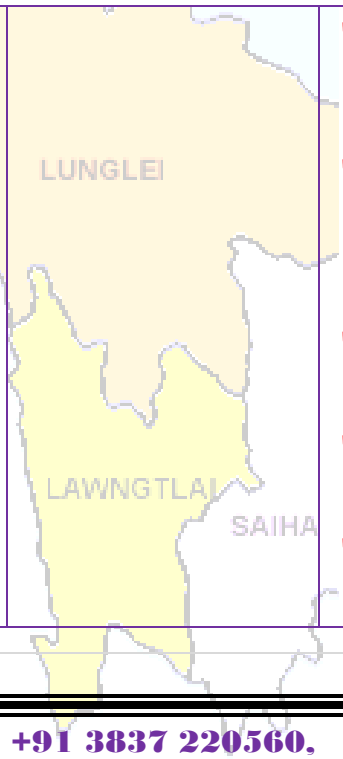
			✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✦ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✦ The flowering emergence will come out after 55-60 days after chemical spraying. ✦ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✦ Remove all unwanted leaves, branches and weed near to the plant.
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 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

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			interval.
Rubber	**Nursery stage**		✦ 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			
Pre Kharif Rice	**Nursery stage**		✦ Use only Well filled and healthy seeds. ✦ Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. ✦ Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✦ Mulching is requiring for better germination in nursery.
***Jhum* Rice**	**Sowing stage**		✦ Sowing in ridge and furrow. ✦ Mulching with grass for better germination. ✦ Intercropping with greengram and bunchy type frenchbean.
Maize (*Jhum*)	**Sowing stage**		✦ 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, P_2O_5 and K_2O/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**		✦ 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

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			for effective control. Remove the alternate host *Oxalis comiculata.*
Potato	**Harvesting stage**		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**	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**		Plough the field properly, at least 2-3 times. Mix fertilizer with FYM 50:60:60Kg /ha. Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	**Sowing stage**		Rhizome should be treated with Thiram @4 g/kg seed. Use optimum seed rate (50-60 kg/ha) for desire plant population.

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			✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	**Sowing stage**		✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha ✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. ✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ 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**		• 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**	• Black Quarter Vaccine (BQV).

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		(BQ)	❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Litter management**		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	**0-3 rd week**	✚ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**3rd-4th weeks**	✚ 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.
			✚ 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.

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

District: Lawngtlai **Period:** 26 April – 30 April, 2017

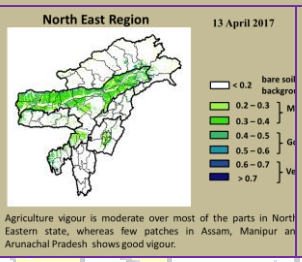
Bulletin No: - 695/2017/ Bulletin/Mizo **Date of issue:** 25th April, 2017

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	30	30	29
Min Temp (ºC)	21	21	20	22	21
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	91	96	97	97	97
Min RH (%)	56	51	47	42	42
Wind Speed (KmpH)	6	4	2	4	4
*Wind Direction	S-E	S-E	E	E	E

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

STATUS OF MONSOON- 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	26th April– 30th April, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):24-27ºC **Minimum Tem. (ºC):**16-19ºC **Maximum RH (%):**94-97% **Minimum RH (%):**50-79% **Wind Direction:** Easterly **Cloud cover:** Mainly cloudy **Wind speed:** 3-4 km/hr **Rainfall:** 147.2 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-30ºC a ni ang a. A vawh lai ber in 20-22ºC ni tura beisei a ni. RH san lai berin 91-97% leh a hniam lai berin 42-56% 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. ***Weekly cumulative rainfall:*** **00.0mm**
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.
	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 tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan 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 *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		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, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ 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.
		Phytopthora blight	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		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 HUSBENDARY			
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 chhunzawm 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 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 enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation (Dil buatsaih)	**3rd-4th weeks**	✦ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			✦ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ✦ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			✦ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ✦ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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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: Lunglei **Period:** 26 April – 30 April, 2017

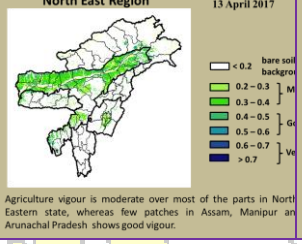
Bulletin No: - 695/2017/ Bulletin/English **Date of issue:** 25th April, 2017

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	29	29	31	30	30
Min Temp (ºC)	21	20	20	22	22
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	95	98	100	99	99
Min RH (%)	60	53	48	43	44
Wind Speed (KmpH)	5	2	2	4	2
*Wind Direction	S	S	S-W	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	Weather forecast valid from 26th April, 2017 To 30thApril, 2017.
Maximum Tem. (ºC):23-25ºC **Minimum Tem. (ºC):**14-16ºC **Maximum RH (%):**98-99% **Minimum RH (%):**64-90% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind Speed:** 3-4 km/hr **Rainfall:** 155.3 mm	There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-31ºC and 20-22ºC. Maximum relative humidity is expected in the range of 95-100% and minimum may from 44-60%. Wind direction would be southerly to southwesterly and easterly with the wind speed of 2-5 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **00.0 mm**
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour. Moderately wet mildly dry/mildly wet conditions

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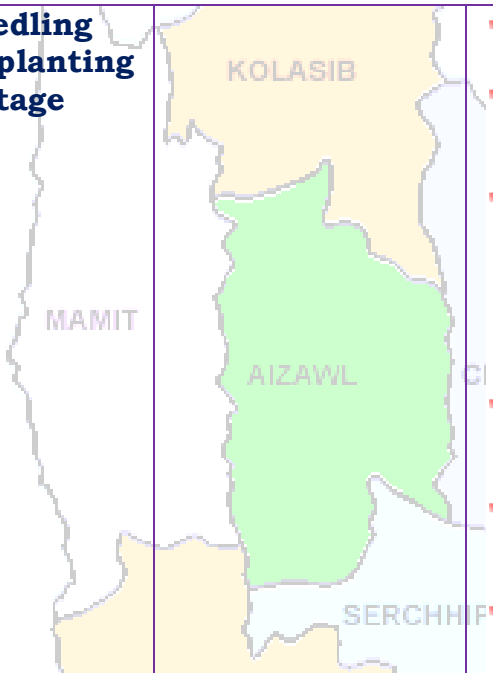
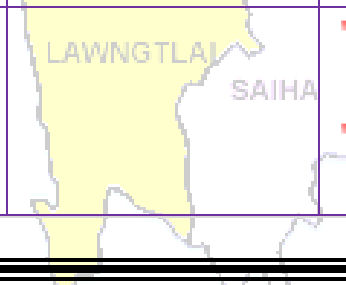
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Seedling transplanting stage**		✦ Fruit palnt should be planted in a sunny and wind-protected area. ✦ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ✦ 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.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	✦ **Die back**- 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. ✦ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. ✦ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✦ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
Passion Fruit	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds.

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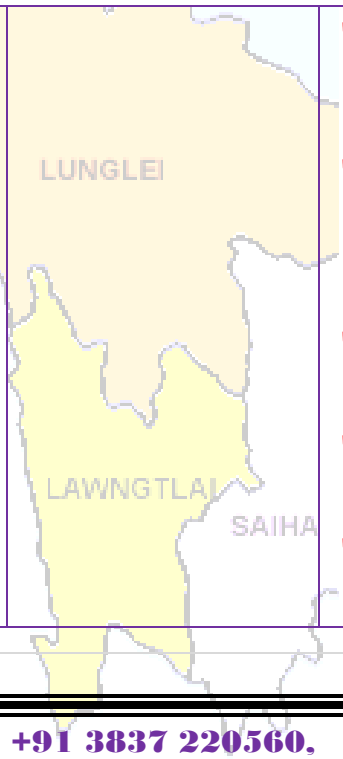
			✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✦ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✦ The flowering emergence will come out after 55-60 days after chemical spraying. ✦ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✦ Remove all unwanted leaves, branches and weed near to the plant.
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 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

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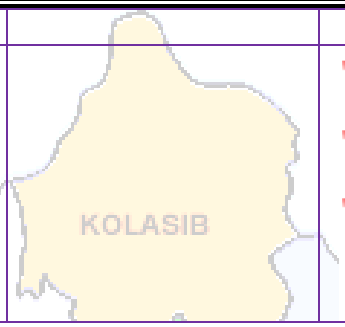
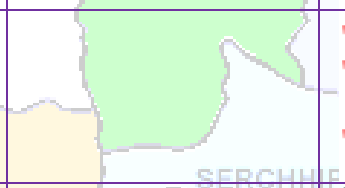
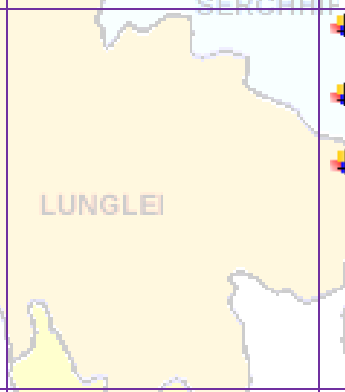
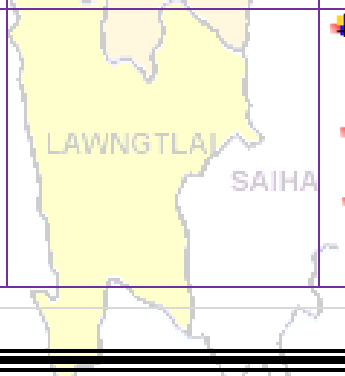
			interval.
Rubber	**Nursery stage**		✦ Clearing operation may be done during the month of February to April. ✦ Make fire line to protect the young tree and seedlings. ✦ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
CEREALS AND PULSE CROPS			
Pre Kharif Rice	**Nursery stage**		✦ Use only Well filled and healthy seeds. ✦ Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. ✦ Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✦ Mulching is requiring for better germination in nursery.
***Jhum* Rice**	**Sowing stage**		✦ Sowing in ridge and furrow. ✦ Mulching with grass for better germination. ✦ Intercropping with greengram and bunchy type frenchbean.
Maize (*Jhum*)	**Sowing stage**		✦ 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, P_2O_5 and K_2O/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**		✦ 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

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			for effective control. Remove the alternate host *Oxalis comiculata.*
Potato	**Harvesting stage**		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**	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**		Plough the field properly, at least 2-3 times. Mix fertilizer with FYM 50:60:60Kg /ha. Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	**Sowing stage**		Rhizome should be treated with Thiram @4 g/kg seed. Use optimum seed rate (50-60 kg/ha) for desire plant population.

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			✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	**Sowing stage**		✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha ✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. ✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ 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**		• 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**	• Black Quarter Vaccine (BQV).

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		(BQ)	❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Litter management**		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	**0-3 rd week**	✚ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**3rd-4th weeks**	✚ 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.
			✚ 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.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Lunglei **Period:** 26 April – 30 April, 2017

Bulletin No: - 695/2017/ Bulletin/Mizo **Date of issue:** 25th April, 2017

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	29	29	31	30	30
Min Temp (ºC)	21	20	20	22	22
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	95	98	100	99	99
Min RH (%)	60	53	48	43	44
Wind Speed (KmpH)	5	2	2	4	2
*Wind Direction	S	S	S-W	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. (ºC): 23-25ºC
Minimum Tem. (ºC): 14-16ºC
Maximum RH (%): 98-99%
Minimum RH (%): 64-90%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind Speed: 3-4 km/hr

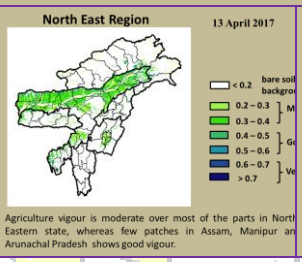
Rainfall: 155.3 mm

26th April– 30th April, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-31ºC a ni ang a. A vawh lai ber in 20-22ºC ni tura beisei a ni. RH san lai berin 95-100% leh a hniam lai berin 44-60% ni tur a rin niin. Thli hi darkar khatah 2-5 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **00.0mm**

NDVI for Mizoram



Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

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 tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan 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 *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		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, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ 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.
		Phytopthora blight	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		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 HUSBENDARY			
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 chhunzawm 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 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 enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation (Dil buatsaih)	**3rd-4th weeks**	✦ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			✦ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ✦ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			✦ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ✦ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Mamit **Period:** 26 April – 30 April, 2017

Bulletin No: - 695/2017/ Bulletin/English **Date of issue:** 25th April, 2017

Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	4	6	0
Max Temp (ºC)	29	30	32	30	30
Min Temp (ºC)	23	21	21	21	22
Cloud Coverage	Mainly clear	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	96	99	99	98	99
Min RH (%)	72	61	60	52	54
Wind Speed (KmpH)	6	2	4	3	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. (ºC): 26-28ºC
Minimum Tem. (ºC): 17-20ºC
Maximum RH (%): 98-99%
Minimum RH (%): 81-95%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 4-5 km/hr

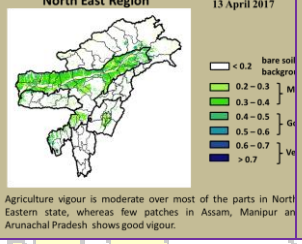
Rainfall: 168.7 mm

Weather forecast valid from 26th April, 2017 To 30thApril, 2017.

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 29-32ºC and 21-23ºC. Maximum relative humidity is expected in the range of 96-99% and minimum may from 52-72%. Wind direction would be southerly to southeasterly with the wind speed of 2-6 km per hour. Partially clear will prevail during the next five days.

Weekly cumulative rainfall: **10.0 mm**

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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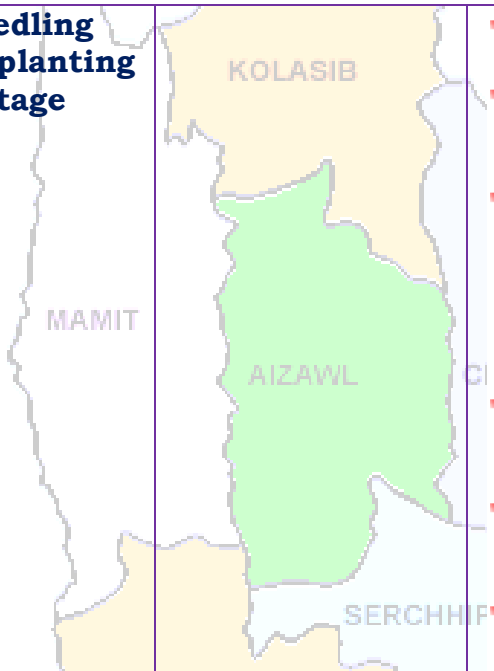
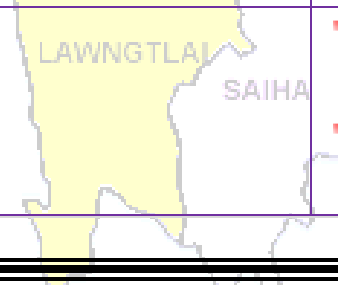
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Seedling transplanting stage**		✦ Fruit palnt should be planted in a sunny and wind-protected area. ✦ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ✦ 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.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	✦ **Die back**- 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. ✦ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. ✦ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✦ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
Passion Fruit	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds.

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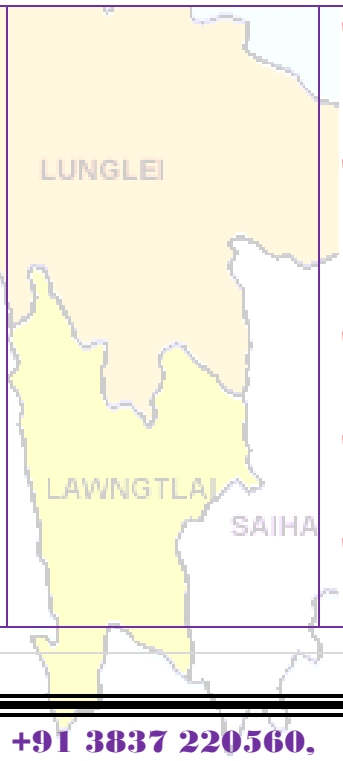
			✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✦ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✦ The flowering emergence will come out after 55-60 days after chemical spraying. ✦ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✦ Remove all unwanted leaves, branches and weed near to the plant.
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 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

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			interval.
Rubber	**Nursery stage**		✦ 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			
Pre Kharif Rice	**Nursery stage**		✦ Use only Well filled and healthy seeds. ✦ Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. ✦ Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✦ Mulching is requiring for better germination in nursery.
***Jhum* Rice**	**Sowing stage**		✦ Sowing in ridge and furrow. ✦ Mulching with grass for better germination. ✦ Intercropping with greengram and bunchy type frenchbean.
Maize (*Jhum*)	**Sowing stage**		✦ 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, P_2O_5 and K_2O/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**		✦ 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

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			for effective control. Remove the alternate host *Oxalis comiculata.*
Potato	**Harvesting stage**		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**	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**		Plough the field properly, at least 2-3 times. Mix fertilizer with FYM 50:60:60Kg /ha. Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	**Sowing stage**		Rhizome should be treated with Thiram @4 g/kg seed. Use optimum seed rate (50-60 kg/ha) for desire plant population.

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			✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	**Sowing stage**		✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha ✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. ✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ 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**		• 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**	• Black Quarter Vaccine (BQV).

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		(BQ)	❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Litter management**		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	**0-3 rd week**	✚ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**3rd-4th weeks**	✚ 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.
			✚ 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.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Mamit **Period: 26 April – 30 April, 2017**

Bulletin No: - 695/2017/ Bulletin/Mizo **Date of issue: 25th April, 2017**

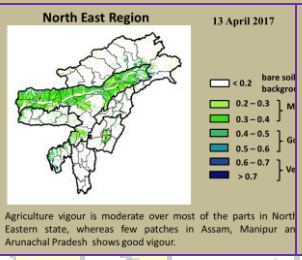
Parameters	26.04.2017	27.04.2017	28.04.2017	29.04.2017	30.04.2017
Rainfall (mm)	0	0	4	6	0
Max Temp (ºC)	29	30	32	30	30
Min Temp (ºC)	23	21	21	21	22
Cloud Coverage	Mainly clear	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	96	99	99	98	99
Min RH (%)	72	61	60	52	54
Wind Speed (KmpH)	6	2	4	3	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	26th April– 30th April, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):26-28ºC **Minimum Tem. (ºC):17-20ºC** **Maximum RH (%):98-99%** **Minimum RH (%):81-95%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 4-5 km/hr** **Rainfall: 168.7 mm**	Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-32ºC a ni ang a. A vawh lai ber in 21-23ºC ni tura beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 52-72% 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. ***Weekly cumulative rainfall:* 10.0mm**

NDVI for Mizoram		
	 Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.	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 tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan 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 *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		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, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ 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.
		Phytopthora blight	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		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 HUSBENDARY			
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 chhunzawm 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 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 enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation (Dil buatsaih)	**3rd-4th weeks**	✦ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			✦ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ✦ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			✦ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ✦ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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