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: 28 April – 02 May, 2018**

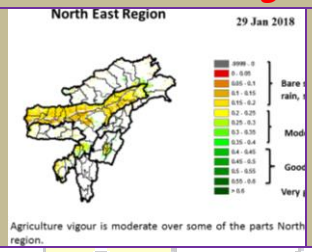
Bulletin No: - 788/2018/ Bulletin/English **Date of issue: 27th April, 2018**

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	4	9	5	0
Max Temp (ºC)	29	29	29	30	30
Min Temp (ºC)	14	14	14	14	14
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	70	82	94	95	98
Min RH (%)	22	22	27	31	33
Wind Speed (KmpH)	3	3	3	2	4
*Wind Direction	S-E	S-E	S-E	E	S-E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days	Weather forecast valid from 28thApril, 2018 To 02ndMay, 2018.
Maximum Tem. (ºC):27-28ºC **Minimum Tem. (ºC):**14-15ºC **Maximum RH (%):**98-100% **Minimum RH (%):**46-68% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 1-2 km/hr **Rainfall: 23.3 mm**	There are chances of light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 29-30ºC and 14ºC. Maximum relative humidity is expected in the range of 70-98% and minimum may from 22-33%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **18.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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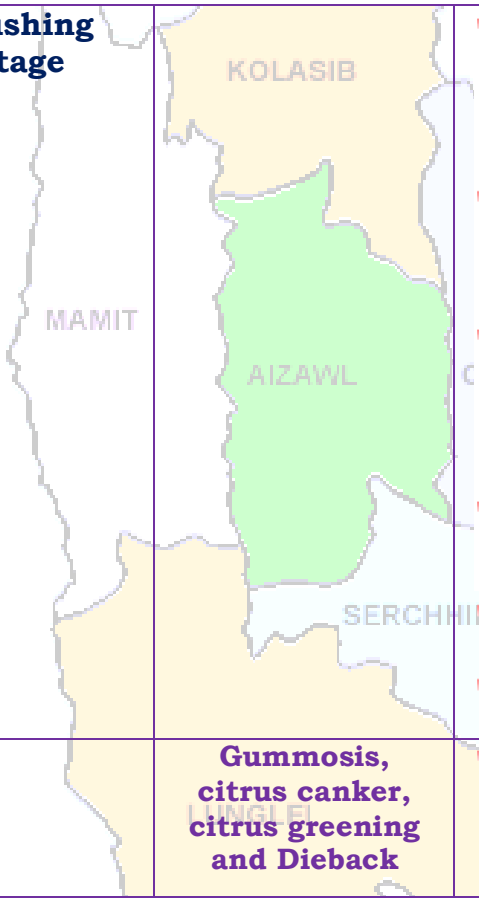
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **STAR FRUIT** **PLUM AND PEACH**	**Flushing stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the loss of healthy foliage. ✦ The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. ✦ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. ✦ Apply Bordeaux mixture to the plant after pruning. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).
		Gummosis, citrus canker, citrus greening and Dieback	✦ Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
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

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		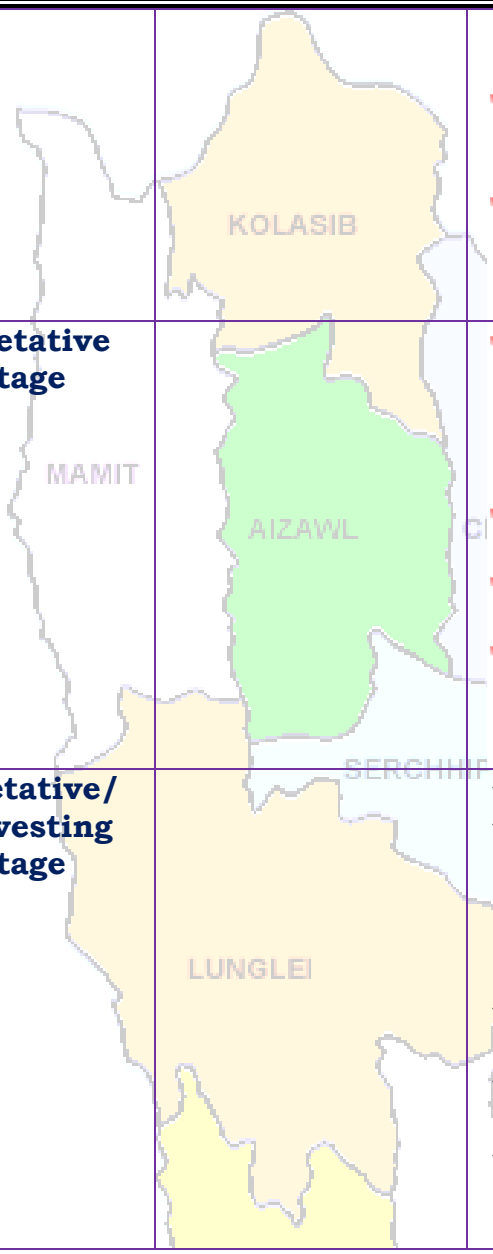	grasses near the tree base to conserve soil moisture during winter. + The young fruit plant must be irrigated at weekly interval for better establishment. + Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	**Vegetative stage**		+ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. + Farmers can go for tapping upto last week of January. + Make fire line around the field to save from fire. + Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	**Vegetative/ Harvesting stage**		❖ Provide irrigation 10-15 days internal. ❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. ❖ Application of split dose of fertilizer 600: 200:100 (g/pt). ❖ Apply Bordeaux mixture to the plant after pruning. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND PULSE CROPS			
Maize (*Jhum*)	**Sowing stage**		+ Remove all weed plant from the selected place. + Keep the plant, leaves and wood for dry.

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		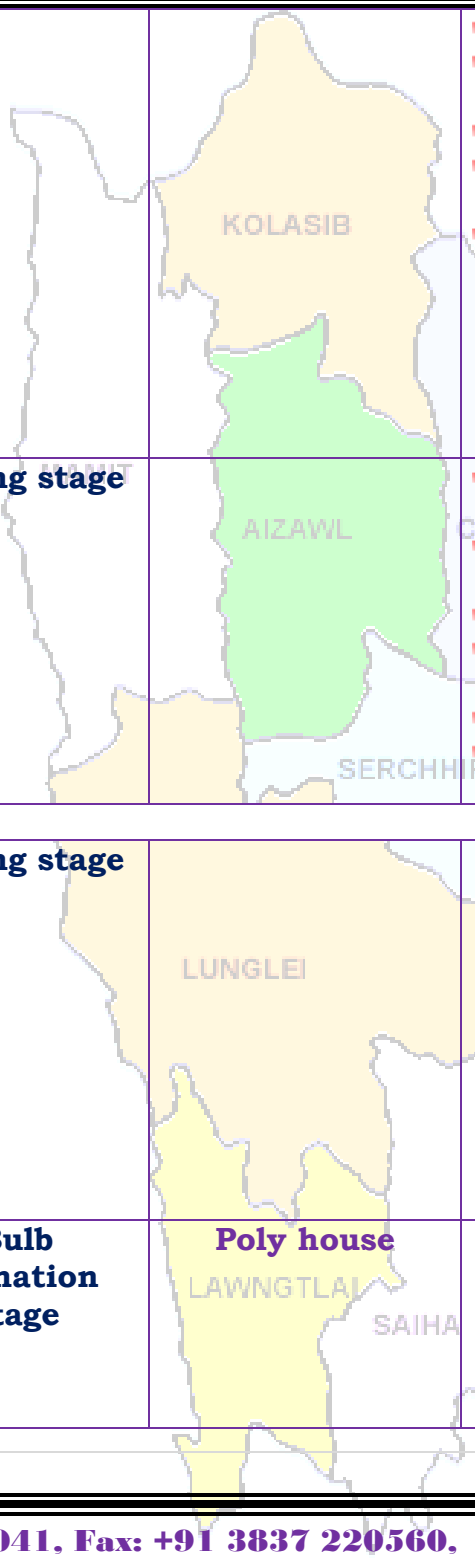	✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant. ✦ Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rice (*Jhum*)	**Sowing stage**		✦ Remove all weed plant from the selected place. ✦ Keep the plant, leaves and wood for dry. ✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant.
VEGETABLE CROP			
Ginger and turmeric	**Sowing stage**		✦ Rhizome should be treated with Thiram @4 g/kg seed. ✦ Use optimum seed rate (50-60 kg/ha) for desire plant population. ✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	**Bulb formation stage**	**Poly house**	✦ Provide irrigation every alternate day due to non availability of rain. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. ✦ Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
			Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	**Flowering to fruiting stage**	**Poly house**	Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	**Fruiting to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	**Vegetative to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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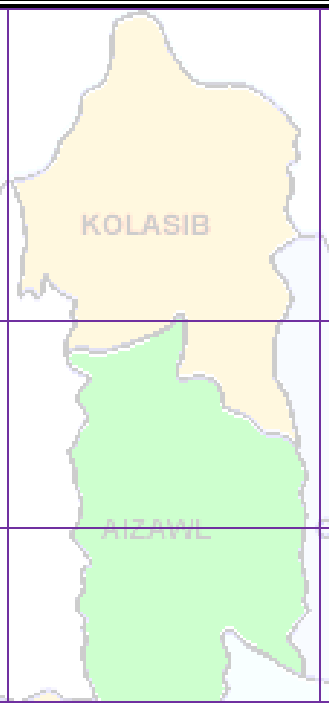
Potato	**Harvesting stage**		✦ If the leaves and plant became dry it means plant ready for harvesting. ✦ Open the furrow with the help of spade, harvest all mature tubers. ✦ Discard all mother tubers from harvested potato tubers. ✦ Keep 7 -10 days for drying or reduce the moisture level in shed dry. ✦ Keep 25% seed for next season sowing.
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**		✦ 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
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.

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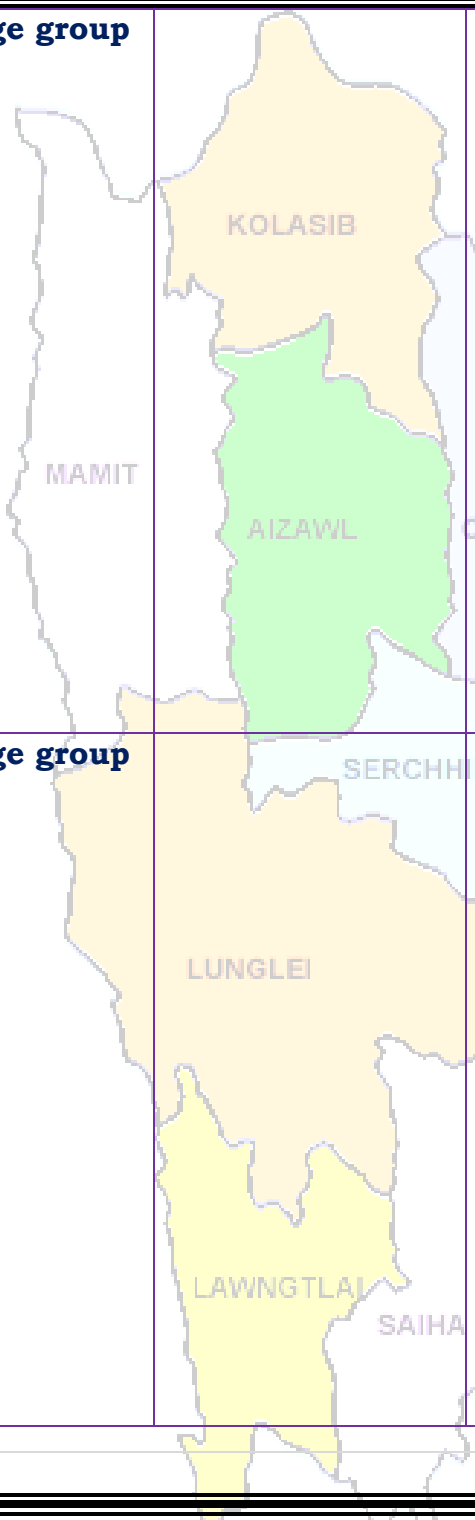
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✦ Remove wet litter.

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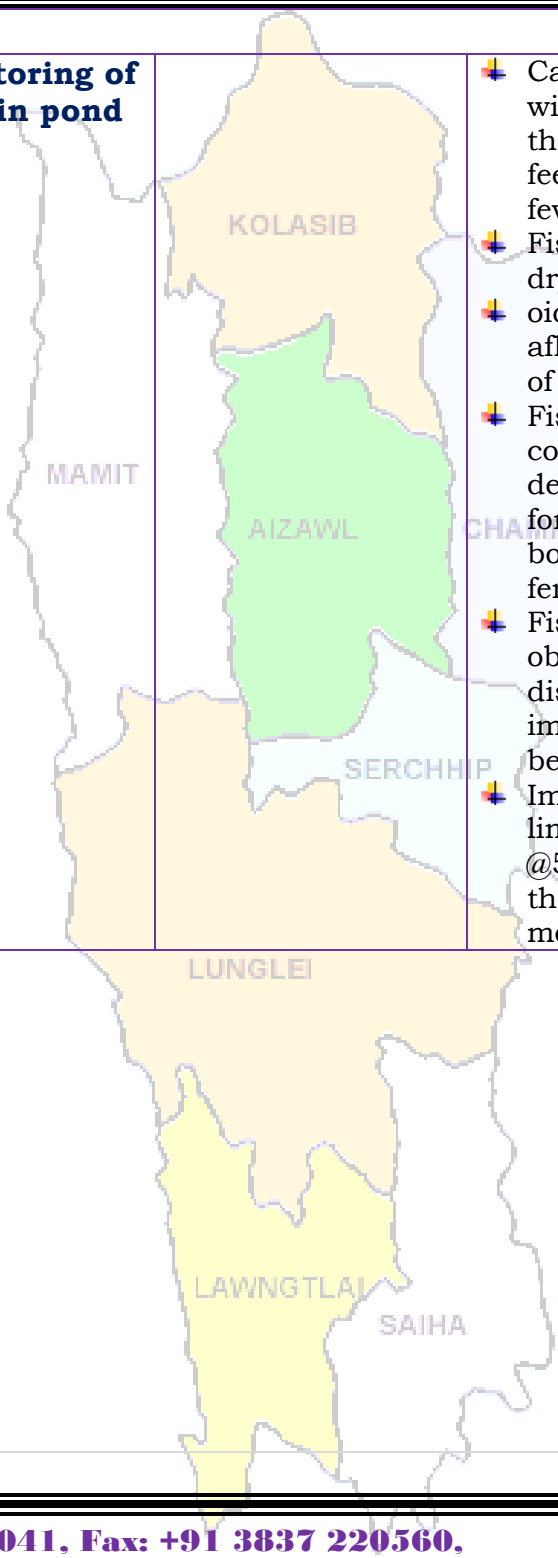
FISHERY

	Monitoring of fish in pond		✦ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ✦ Fish feed should be stored in cool and dry place to av ✦ oid fungal growth that releases aflatoxin which could lead to mortality of fish. ✦ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✦ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✦ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
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Weather summary of the past three days

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Maximum RH (%):98-100%
Minimum RH (%):46-68%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 1-2 km/hr

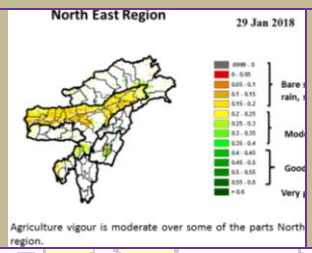
Rainfall: 23.3 mm

28th April – 02nd May, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30ºC a ni ang a. A vawh lai ber in 14ºC ni tura beisei a ni. RH san lai berin 70-98% leh a hniam lai berin 22-33% 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: **18.0mm**

NDVI for Mizoram



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	**A kui atanga a seng hun**		✦ 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. Sneng 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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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

District: Champhai **Period: 28 April – 02 May, 2018**

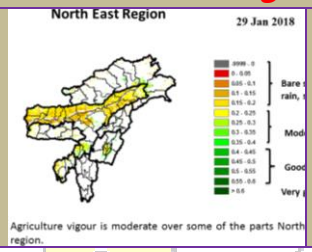
Bulletin No: - 788/2018/ Bulletin/English **Date of issue: 27th April, 2018**

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	3	5	11	3
Max Temp (ºC)	29	29	29	30	30
Min Temp (ºC)	14	14	14	14	14
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	78	91	93	94	95
Min RH (%)	18	17	21	24	28
Wind Speed (KmpH)	4	3	4	3	3
*Wind Direction	E	S-E	S-E	S-E	S-E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days	Weather forecast valid from 28thApril, 2018 To 02ndMay, 2018.
Maximum Tem. (ºC):27-28ºC **Minimum Tem. (ºC):15-16ºC** **Maximum RH (%):94-100%** **Minimum RH (%):52-65%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 17.8 mm**	There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 29-30ºC and 14ºC. Maximum relative humidity is expected in the range of 78-95% and minimum may from 17-28%. Wind direction would be easterly to southeasterly with the wind speed of 3-4 km per hour. Mainly clear sky will prevail during the next five days. ***Weekly cumulative rainfall:* 22.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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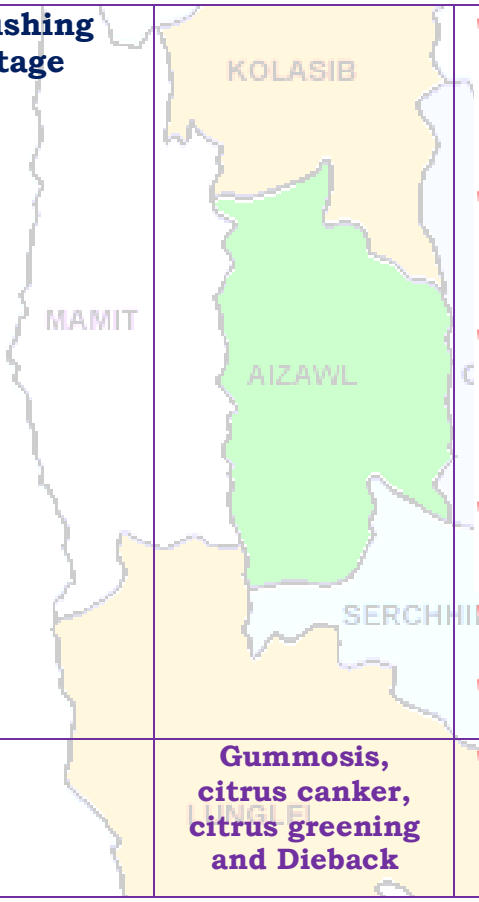
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **STAR FRUIT** **PLUM AND PEACH**	**Flushing stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the loss of healthy foliage. ✦ The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. ✦ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. ✦ Apply Bordeaux mixture to the plant after pruning. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).
		Gummosis, citrus canker, citrus greening and Dieback	✦ Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
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

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		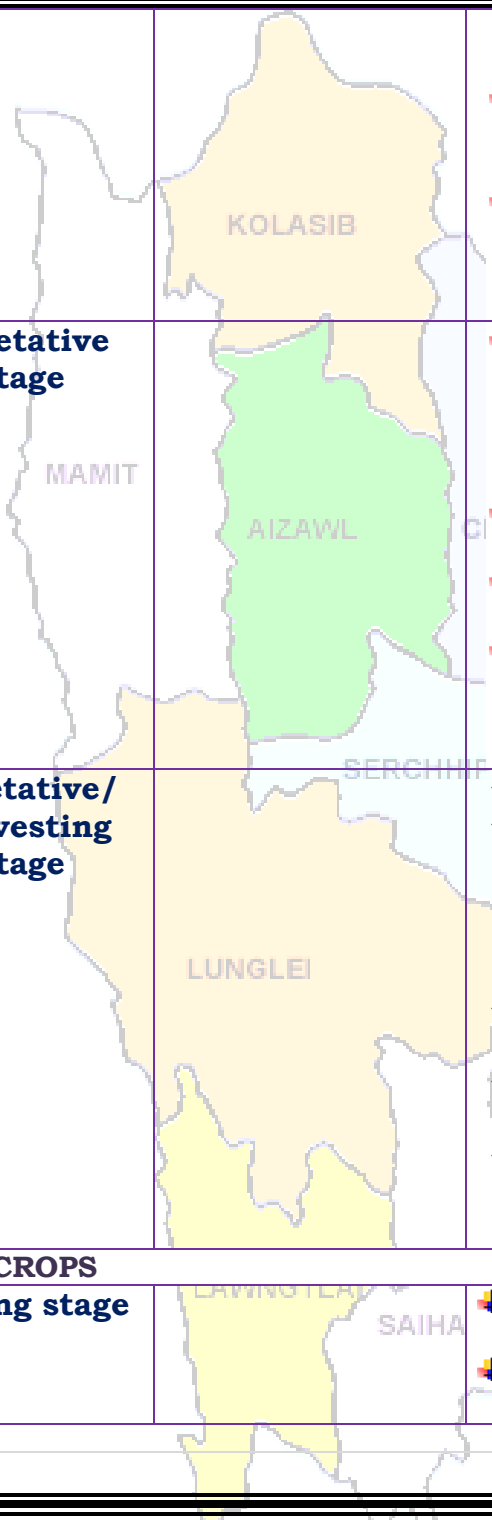	grasses near the tree base to conserve soil moisture during winter. + The young fruit plant must be irrigated at weekly interval for better establishment. + Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	**Vegetative stage**		+ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. + Farmers can go for tapping upto last week of January. + Make fire line around the field to save from fire. + Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	**Vegetative/ Harvesting stage**		❖ Provide irrigation 10-15 days internal. ❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. ❖ Application of split dose of fertilizer 600: 200:100 (g/pt). ❖ Apply Bordeaux mixture to the plant after pruning. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND PULSE CROPS			
Maize (*Jhum*)	**Sowing stage**		+ Remove all weed plant from the selected place. + Keep the plant, leaves and wood for dry.

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		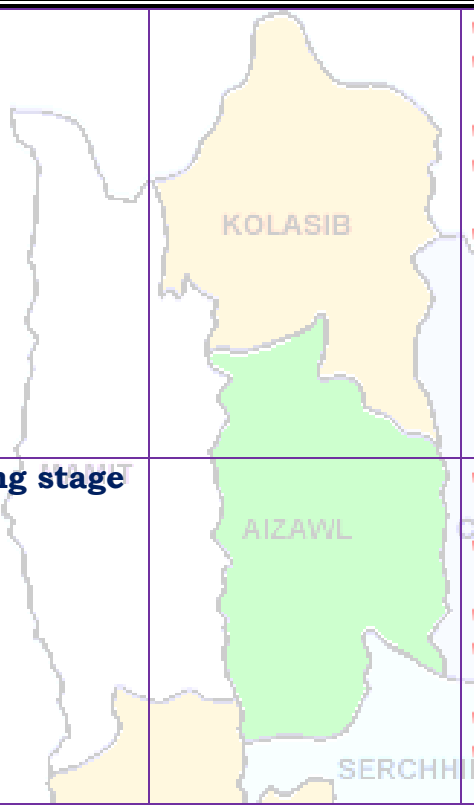	✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant. ✦ Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rice (*Jhum*)	**Sowing stage**		✦ Remove all weed plant from the selected place. ✦ Keep the plant, leaves and wood for dry. ✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant.
VEGETABLE CROP			
Ginger and turmeric	**Sowing stage**		✦ Rhizome should be treated with Thiram @4 g/kg seed. ✦ Use optimum seed rate (50-60 kg/ha) for desire plant population. ✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	**Bulb formation stage**	**Poly house**	✦ Provide irrigation every alternate day due to non availability of rain. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. ✦ Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
			Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	**Flowering to fruiting stage**	**Poly house**	Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	**Fruiting to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	**Vegetative to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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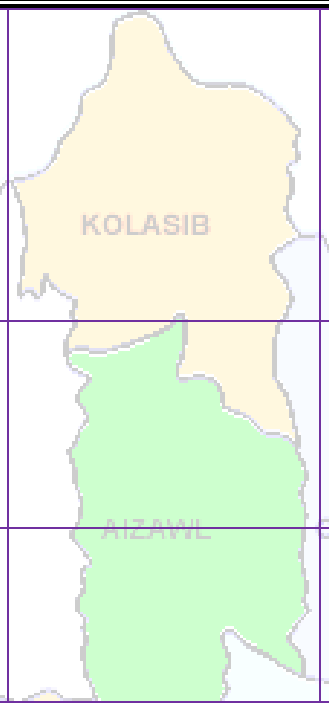
Potato	**Harvesting stage**		✦ If the leaves and plant became dry it means plant ready for harvesting. ✦ Open the furrow with the help of spade, harvest all mature tubers. ✦ Discard all mother tubers from harvested potato tubers. ✦ Keep 7 -10 days for drying or reduce the moisture level in shed dry. ✦ Keep 25% seed for next season sowing.
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**		✦ 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
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.

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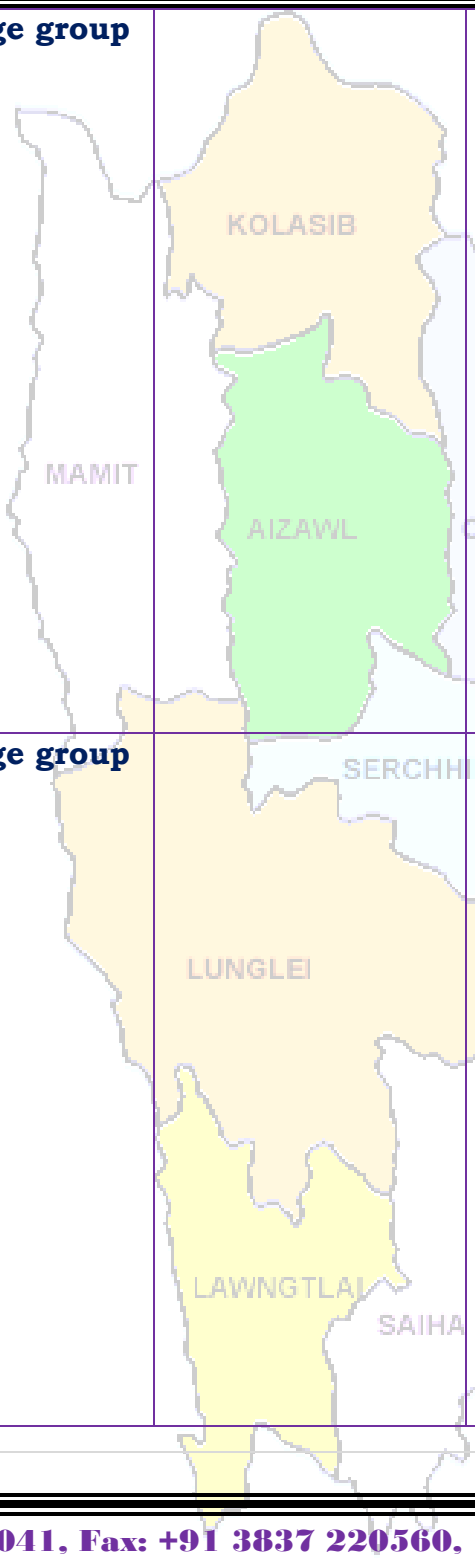
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✦ Remove wet litter.

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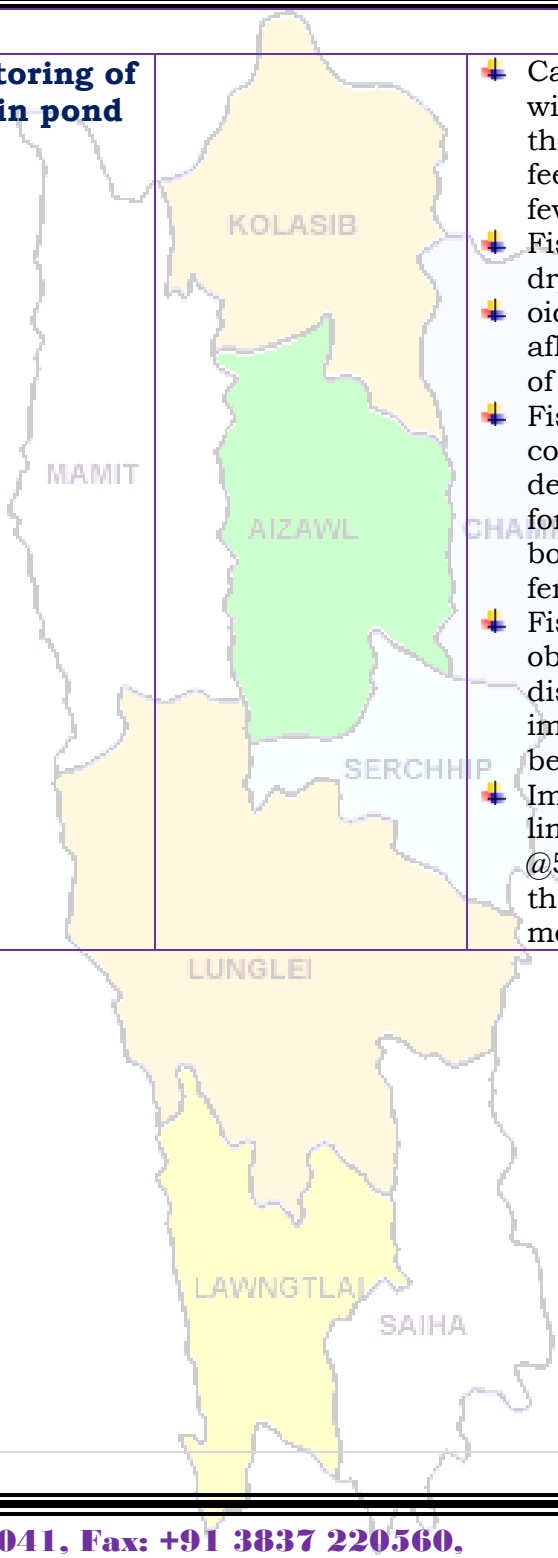
FISHERY

	Monitoring of fish in pond		✦ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ✦ Fish feed should be stored in cool and dry place to av ✦ oid fungal growth that releases aflatoxin which could lead to mortality of fish. ✦ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✦ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✦ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period: 28 April – 02 May, 2018**

Bulletin No: - 788/2018/ Bulletin/Mizo **Date of issue: 27th April, 2018**

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	3	5	11	3
Max Temp (ºC)	29	29	29	30	30
Min Temp (ºC)	14	14	14	14	14
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	78	91	93	94	95
Min RH (%)	18	17	21	24	28
Wind Speed (KmpH)	4	3	4	3	3
*Wind Direction	E	S-E	S-E	S-E	S-E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days

Maximum Tem. (ºC):27-28ºC
Minimum Tem. (ºC):15-16ºC
Maximum RH (%):94-100%
Minimum RH (%):52-65%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

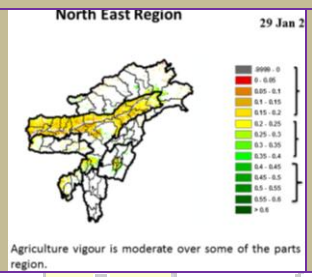
Rainfall: 17.8 mm

28th April – 02nd May, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30ºC a ni ang a. A vawh lai ber in 14ºC ni tura beisei a ni. RH san lai berin 78-95% leh a hniam lai berin 17-28% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

***Weekly cumulative rainfall:* 22.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	**A kui atanga a seng hun**		✦ 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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: 28 April – 02 May, 2018**

Bulletin No: - 788/2018/ Bulletin/English **Date of issue: 27th April, 2018**

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	4	3	0
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	16	16	16
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	89	86	95	96	97
Min RH (%)	21	22	27	31	35
Wind Speed (KmpH)	3	3	2	2	3
*Wind Direction	S-E	S-E	S-E	N-E	S-E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
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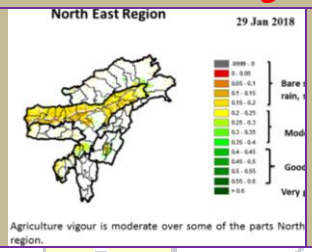
Weather summary of the past three days	Weather forecast valid from 28thApril, 2018 To 02ndMay, 2018.
Maximum Tem. (ºC):29-30ºC **Minimum Tem. (ºC):17-18ºC** **Maximum RH (%):88-94%** **Minimum RH (%):52-69%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 31.8 mm**	There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 16ºC. Maximum relative humidity is expected in the range of 86-97% and minimum may from 21-35%. Wind direction would be southeasterly to northeasterly and southwesterly with the wind speed of 2-3 km per hour. Mainly clear sky will prevail during the next five days. ***Weekly cumulative rainfall:* 07.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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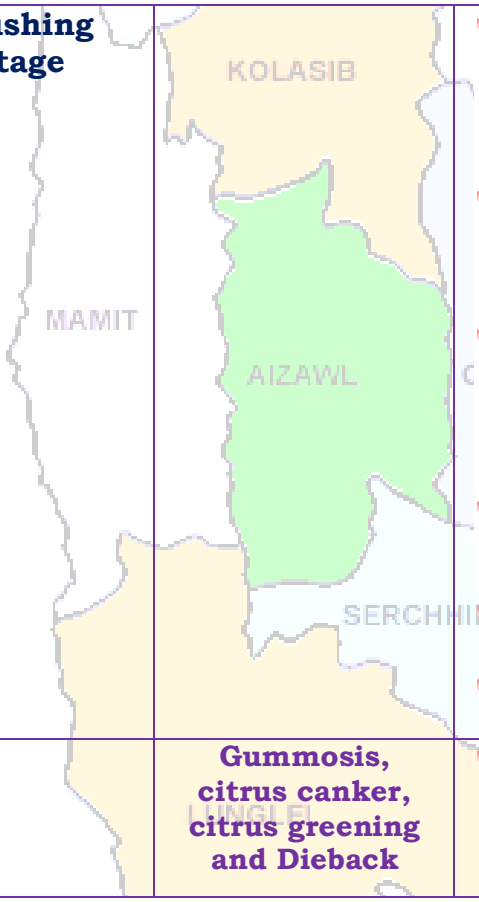
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **STAR FRUIT** **PLUM AND PEACH**	**Flushing stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the loss of healthy foliage. ✦ The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. ✦ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. ✦ Apply Bordeaux mixture to the plant after pruning. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).
		Gummosis, citrus canker, citrus greening and Dieback	✦ Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
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

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		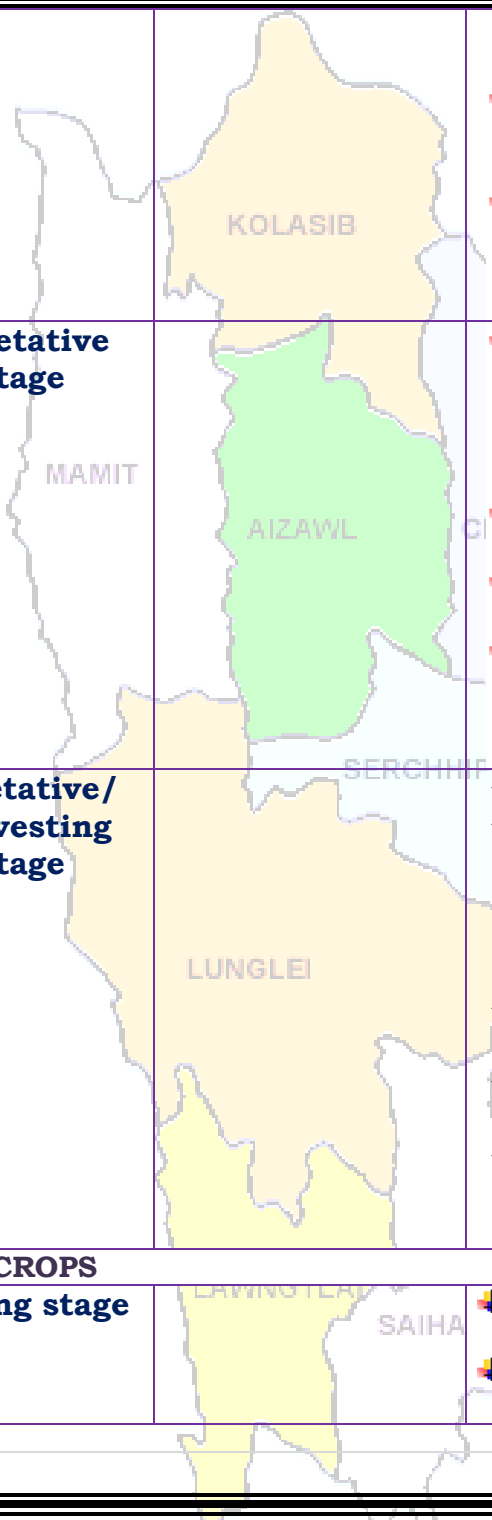	grasses near the tree base to conserve soil moisture during winter. + The young fruit plant must be irrigated at weekly interval for better establishment. + Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	**Vegetative stage**		+ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. + Farmers can go for tapping upto last week of January. + Make fire line around the field to save from fire. + Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	**Vegetative/ Harvesting stage**		❖ Provide irrigation 10-15 days internal. ❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. ❖ Application of split dose of fertilizer 600: 200:100 (g/pt). ❖ Apply Bordeaux mixture to the plant after pruning. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND PULSE CROPS			
Maize (*Jhum*)	**Sowing stage**		+ Remove all weed plant from the selected place. + Keep the plant, leaves and wood for dry.

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		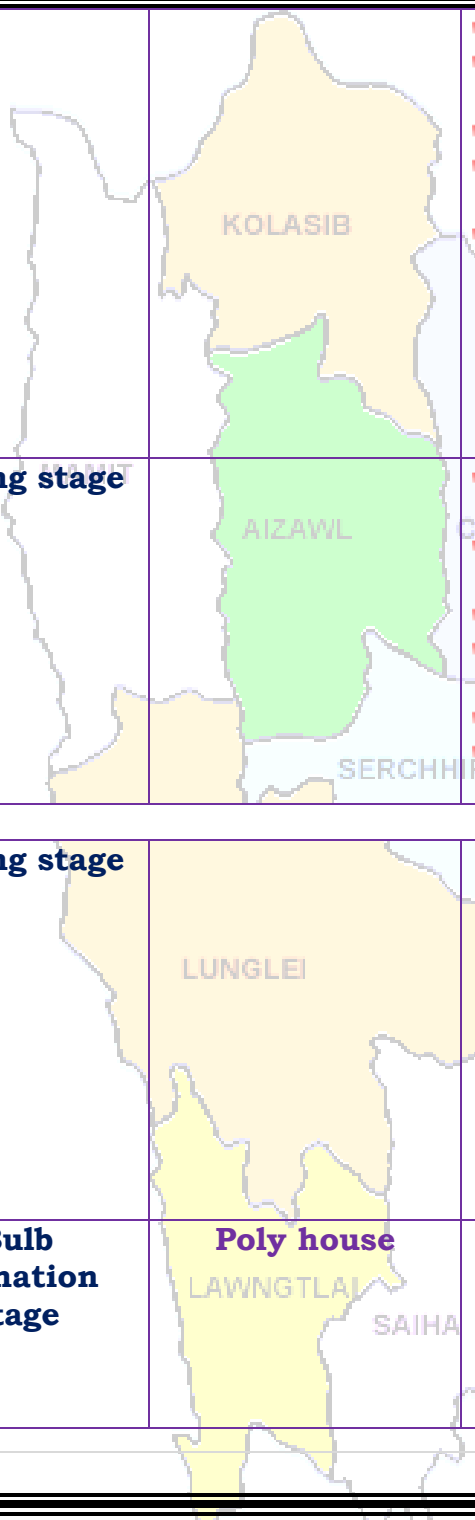	✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant. ✦ Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rice (*Jhum*)	**Sowing stage**		✦ Remove all weed plant from the selected place. ✦ Keep the plant, leaves and wood for dry. ✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant.
VEGETABLE CROP			
Ginger and turmeric	**Sowing stage**		✦ Rhizome should be treated with Thiram @4 g/kg seed. ✦ Use optimum seed rate (50-60 kg/ha) for desire plant population. ✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	**Bulb formation stage**	**Poly house**	✦ Provide irrigation every alternate day due to non availability of rain. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. ✦ Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
			Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	**Flowering to fruiting stage**	**Poly house**	Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	**Fruiting to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	**Vegetative to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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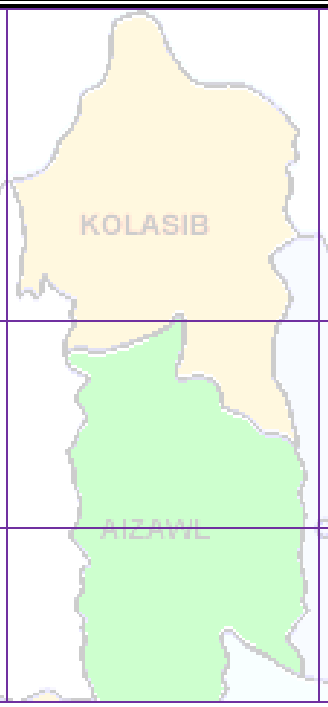
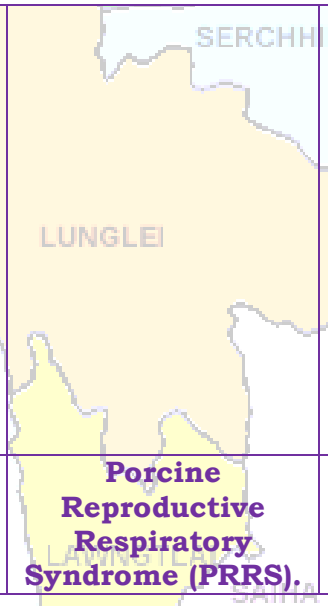
Potato	**Harvesting stage**		✦ If the leaves and plant became dry it means plant ready for harvesting. ✦ Open the furrow with the help of spade, harvest all mature tubers. ✦ Discard all mother tubers from harvested potato tubers. ✦ Keep 7 -10 days for drying or reduce the moisture level in shed dry. ✦ Keep 25% seed for next season sowing.
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**		✦ 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
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.

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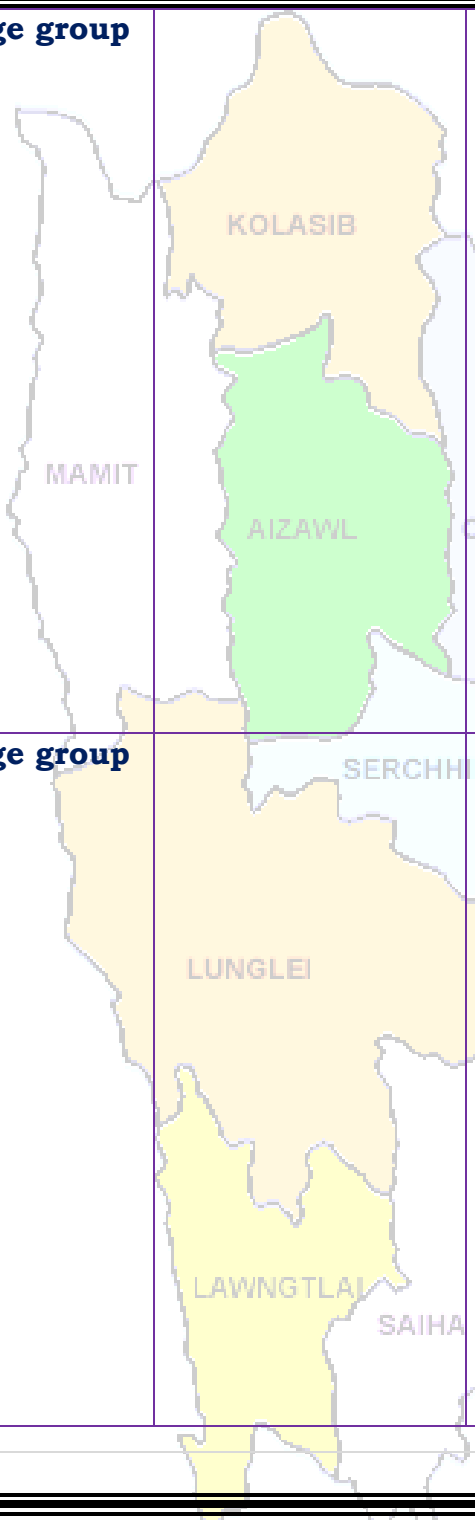
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✦ Remove wet litter.

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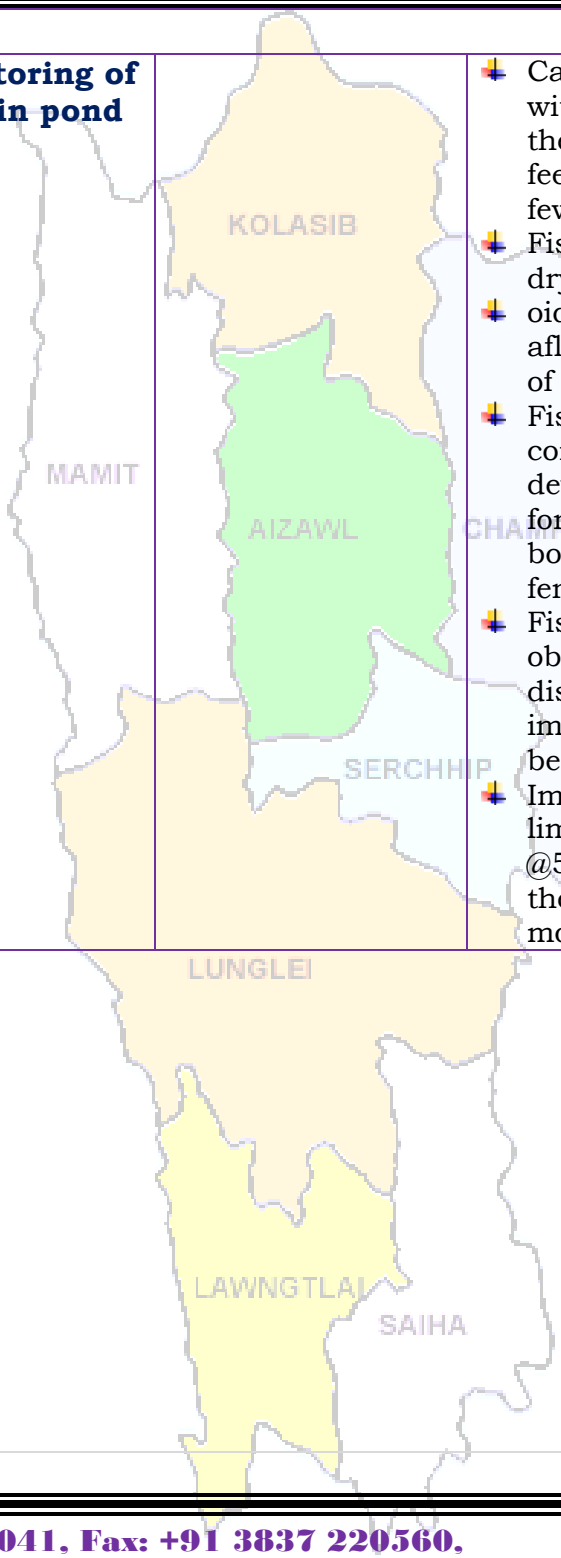
FISHERY

	Monitoring of fish in pond		✦ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ✦ Fish feed should be stored in cool and dry place to av ✦ oid fungal growth that releases aflatoxin which could lead to mortality of fish. ✦ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✦ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✦ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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: 28 April – 02 May, 2018**

Bulletin No: - 788/2018/ Bulletin/Mizo **Date of issue: 27th April, 2018**

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	4	3	0
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	89	86	95	96	97
Min RH (%)	21	22	27	31	35
Wind Speed (KmpH)	3	3	2	2	3
*Wind Direction	S-E	S-E	S-E	N-E	S-E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days

Maximum Tem. (°C):29-30°C
Minimum Tem. (°C):17-18°C
Maximum RH (%):88-94%
Minimum RH (%):52-69%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

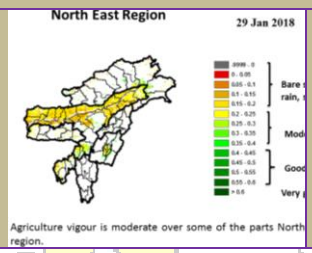
Rainfall: 31.8 mm

28th April – 02nd May, 2018 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 30-31°C a ni ang a. A vawh lai ber in 16°C ni tura beisei a ni. RH san lai berin 86-97% leh a hniam lai berin 21-35% 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: **07.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	**A kui atanga a seng hun**		✦ 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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Lawngtlai **Period:** 28 April – 02 May, 2018

Bulletin No: - 788/2018/ Bulletin/English **Date of issue:** 27th April, 2018

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	30	30	30	30	30
Min Temp (ºC)	16	16	16	16	16
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	87	97	95	95	96
Min RH (%)	16	19	25	28	24
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	S	N-E	E	E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days

Maximum Tem. (ºC): 26-28ºC
Minimum Tem. (ºC): 16ºC
Maximum RH (%): 96-99%
Minimum RH (%): 49-68%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

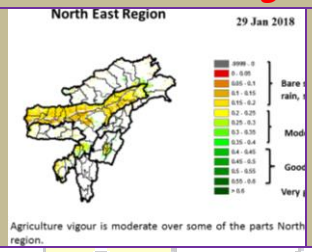
Rainfall: 18.5 mm

Weather forecast valid from 28thApril, 2018 To 02ndMay, 2018.

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30ºC and 16ºC. Maximum relative humidity is expected in the range of 87-97% and minimum may from 16-28%. Wind direction would be easterly to southerly to northeasterly and easterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: **00.0 mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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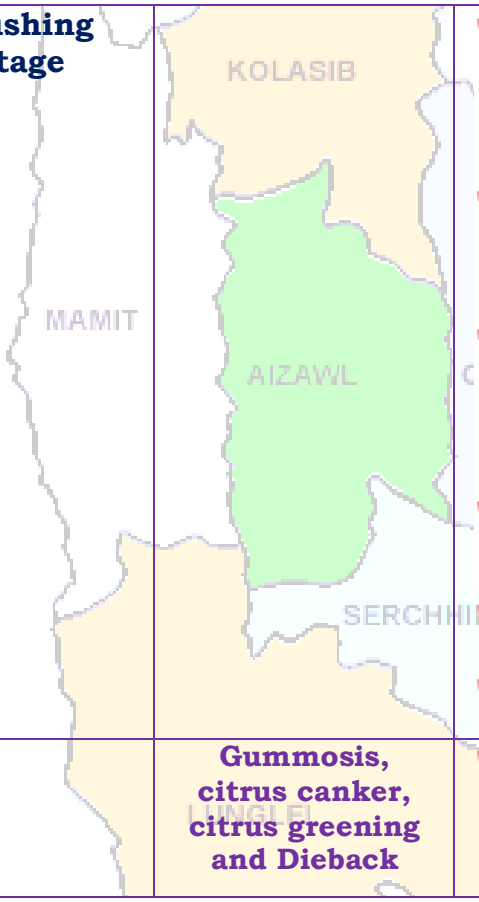
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **STAR FRUIT** **PLUM AND PEACH**	**Flushing stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the loss of healthy foliage. ✦ The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. ✦ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. ✦ Apply Bordeaux mixture to the plant after pruning. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).
		Gummosis, citrus canker, citrus greening and Dieback	✦ Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
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

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		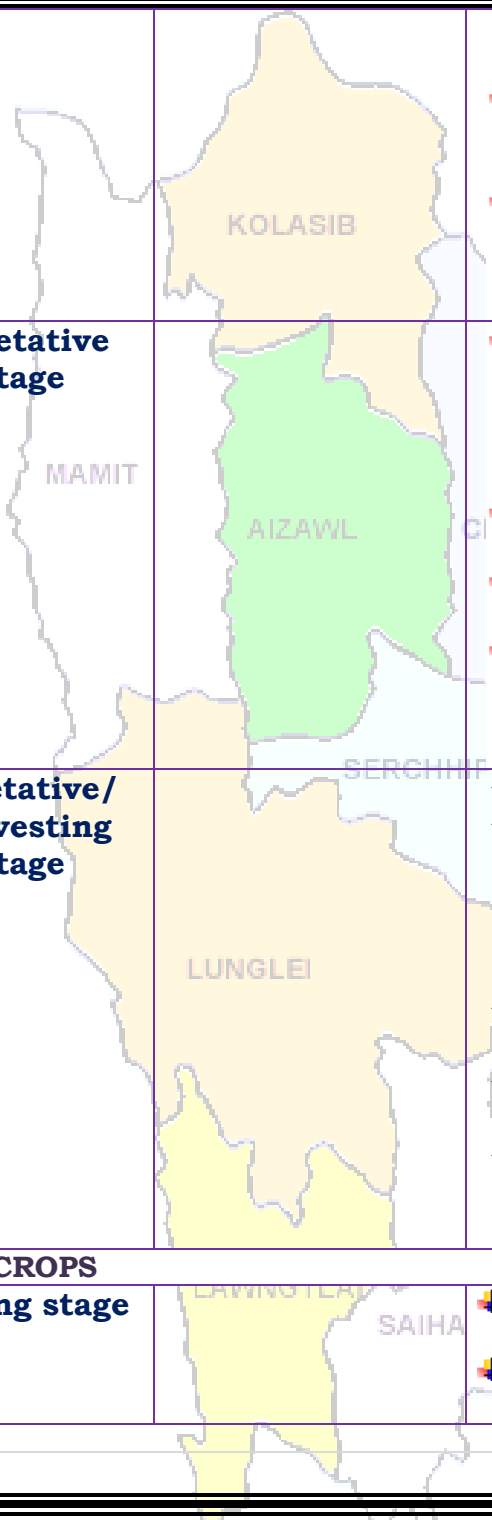	grasses near the tree base to conserve soil moisture during winter. + The young fruit plant must be irrigated at weekly interval for better establishment. + Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	**Vegetative stage**		+ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. + Farmers can go for tapping upto last week of January. + Make fire line around the field to save from fire. + Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	**Vegetative/ Harvesting stage**		❖ Provide irrigation 10-15 days internal. ❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. ❖ Application of split dose of fertilizer 600: 200:100 (g/pt). ❖ Apply Bordeaux mixture to the plant after pruning. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND PULSE CROPS			
Maize (*Jhum*)	**Sowing stage**		+ Remove all weed plant from the selected place. + Keep the plant, leaves and wood for dry.

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		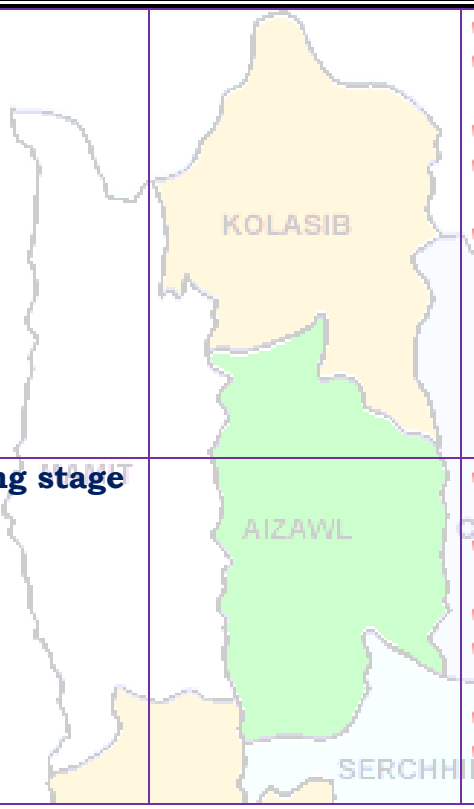	✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant. ✦ Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rice (*Jhum*)	**Sowing stage**		✦ Remove all weed plant from the selected place. ✦ Keep the plant, leaves and wood for dry. ✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant.
VEGETABLE CROP			
Ginger and turmeric	**Sowing stage**		✦ Rhizome should be treated with Thiram @4 g/kg seed. ✦ Use optimum seed rate (50-60 kg/ha) for desire plant population. ✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	**Bulb formation stage**	**Poly house**	✦ Provide irrigation every alternate day due to non availability of rain. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. ✦ Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
			Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	**Flowering to fruiting stage**	**Poly house**	Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	**Fruiting to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	**Vegetative to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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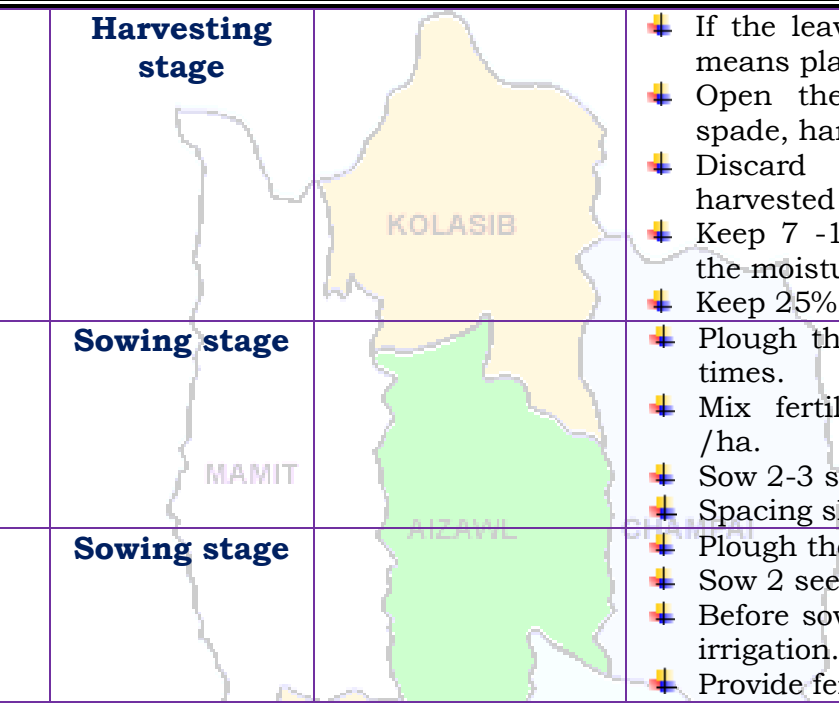
Potato	**Harvesting stage**		✦ If the leaves and plant became dry it means plant ready for harvesting. ✦ Open the furrow with the help of spade, harvest all mature tubers. ✦ Discard all mother tubers from harvested potato tubers. ✦ Keep 7 -10 days for drying or reduce the moisture level in shed dry. ✦ Keep 25% seed for next season sowing.
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**		✦ 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
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.

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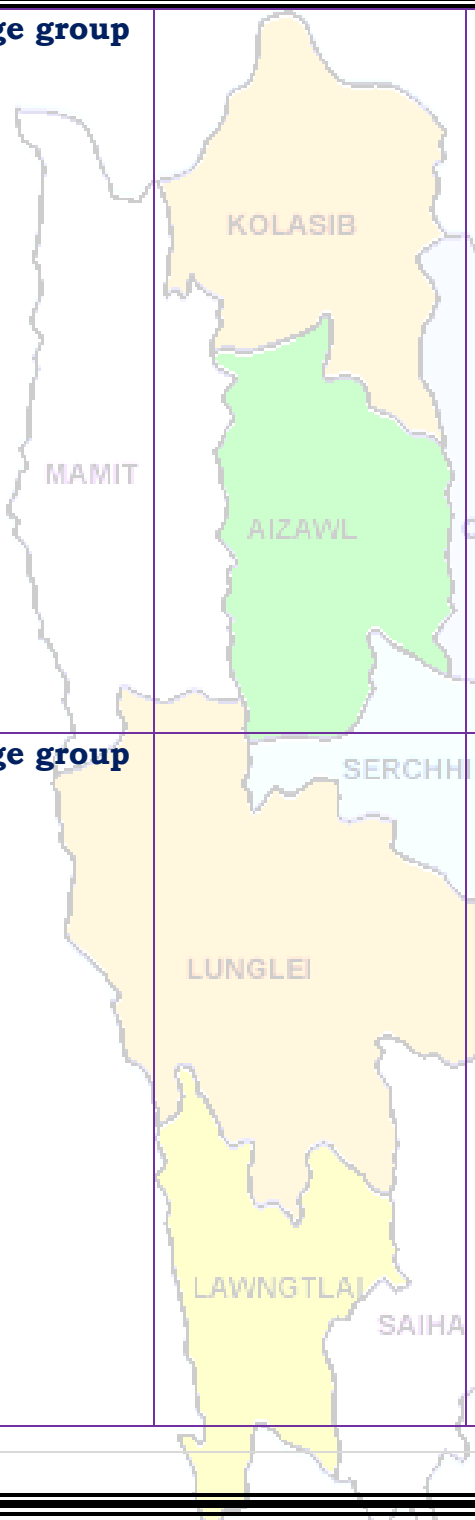
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✦ Remove wet litter.

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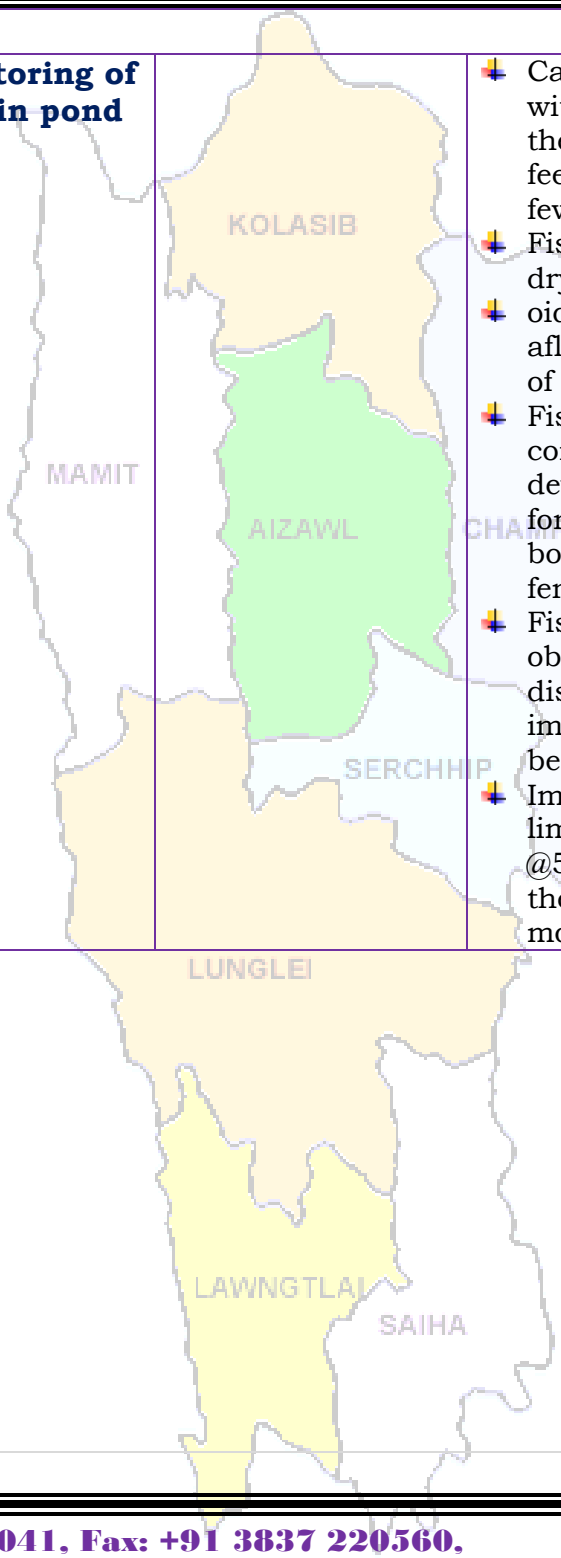
FISHERY

	Monitoring of fish in pond		✦ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ✦ Fish feed should be stored in cool and dry place to av ✦ oid fungal growth that releases aflatoxin which could lead to mortality of fish. ✦ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✦ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✦ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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Bulletin No: - 788/2018/ Bulletin/Mizo **Date of issue:** 27th April, 2018

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

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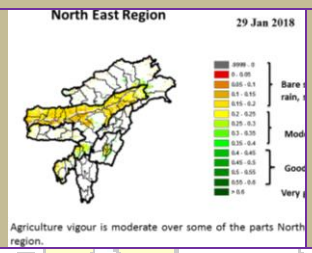
Weather summary of the past three days	28th April – 02nd May, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):26-28ºC **Minimum Tem. (ºC):**16ºC **Maximum RH (%):**96-99% **Minimum RH (%):**49-68% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 18.5 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30ºC a ni ang a. A vawh lai ber in 16ºC ni tura beisei a ni. RH san lai berin of 87-97% leh a hniam lai berin 16-28% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **00.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh 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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: 28 April – 02 May, 2018**

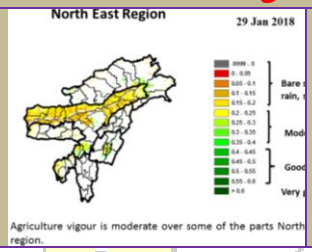
Bulletin No: - 788/2018/ Bulletin/English **Date of issue: 27th April, 2018**

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	3	0	0
Max Temp (ºC)	31	31	31	32	32
Min Temp (ºC)	16	16	16	16	16
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	77	100	99	95	100
Min RH (%)	18	21	25	31	28
Wind Speed (KmpH)	4	2	3	4	2
*Wind Direction	E	N-E	E	E	E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days	Weather forecast valid from 28thApril, 2018 To 02ndMay, 2018.
Maximum Tem. (ºC):23ºC **Minimum Tem. (ºC):13ºC** **Maximum RH (%):92-97%** **Minimum RH (%):48-63%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 20.1 mm**	There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 31-32ºC and 16ºC. Maximum relative humidity is expected in the range of 77-100% and minimum may from 18-31%. Wind direction would be easterly to northeasterly and easterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days. ***Weekly cumulative rainfall:* 03.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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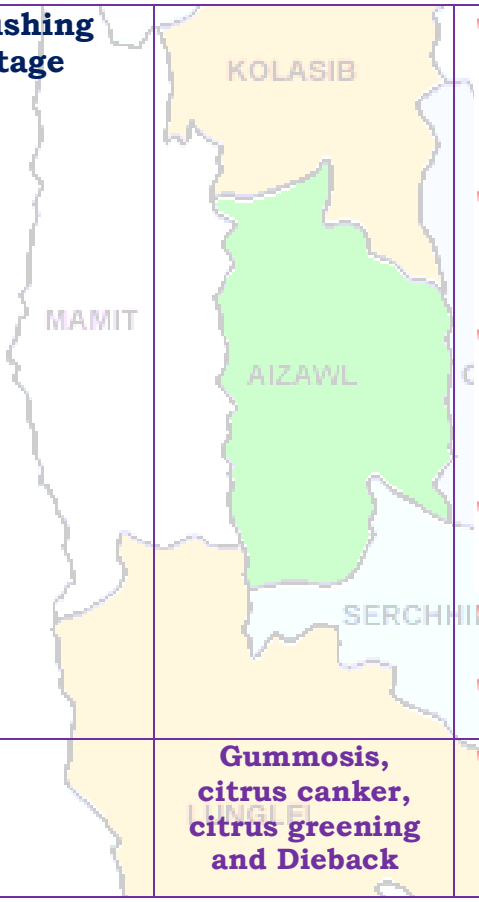
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **STAR FRUIT** **PLUM AND PEACH**	**Flushing stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the loss of healthy foliage. ✦ The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. ✦ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. ✦ Apply Bordeaux mixture to the plant after pruning. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).
		Gummosis, citrus canker, citrus greening and Dieback	✦ Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
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

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		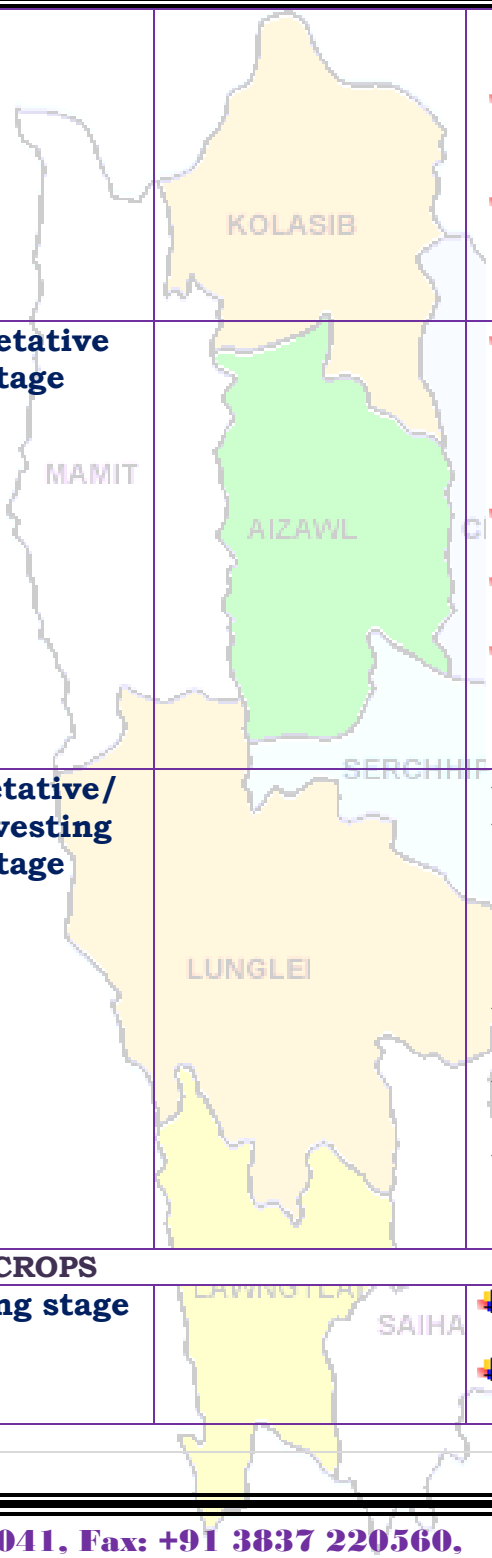	grasses near the tree base to conserve soil moisture during winter. + The young fruit plant must be irrigated at weekly interval for better establishment. + Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	**Vegetative stage**		+ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. + Farmers can go for tapping upto last week of January. + Make fire line around the field to save from fire. + Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	**Vegetative/ Harvesting stage**		❖ Provide irrigation 10-15 days internal. ❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. ❖ Application of split dose of fertilizer 600: 200:100 (g/pt). ❖ Apply Bordeaux mixture to the plant after pruning. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND PULSE CROPS			
Maize (*Jhum*)	**Sowing stage**		+ Remove all weed plant from the selected place. + Keep the plant, leaves and wood for dry.

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		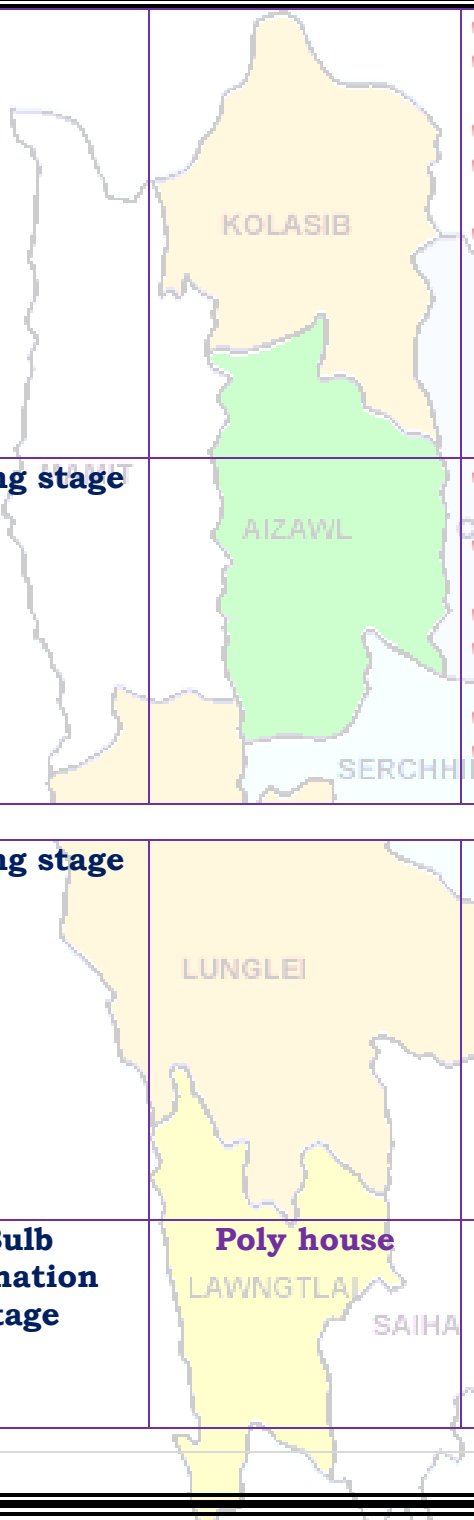	✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant. ✦ Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rice (*Jhum*)	**Sowing stage**		✦ Remove all weed plant from the selected place. ✦ Keep the plant, leaves and wood for dry. ✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant.
VEGETABLE CROP			
Ginger and turmeric	**Sowing stage**		✦ Rhizome should be treated with Thiram @4 g/kg seed. ✦ Use optimum seed rate (50-60 kg/ha) for desire plant population. ✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	**Bulb formation stage**	**Poly house**	✦ Provide irrigation every alternate day due to non availability of rain. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. ✦ Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
			Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	**Flowering to fruiting stage**	**Poly house**	Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	**Fruiting to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	**Vegetative to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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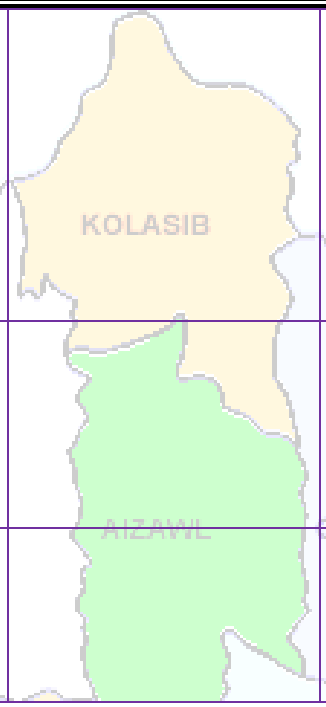
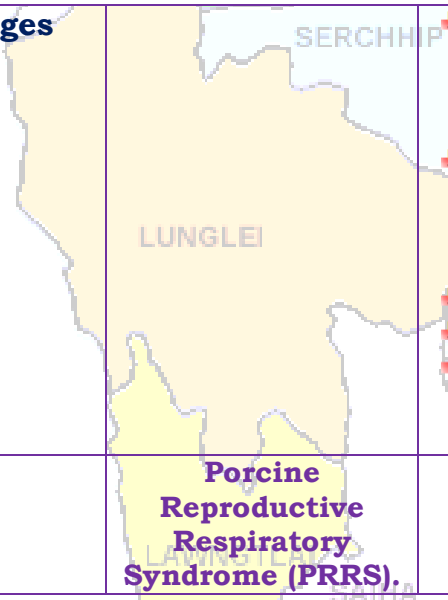
Potato	**Harvesting stage**		✦ If the leaves and plant became dry it means plant ready for harvesting. ✦ Open the furrow with the help of spade, harvest all mature tubers. ✦ Discard all mother tubers from harvested potato tubers. ✦ Keep 7 -10 days for drying or reduce the moisture level in shed dry. ✦ Keep 25% seed for next season sowing.
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**		✦ 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
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.

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Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✦ Remove wet litter.

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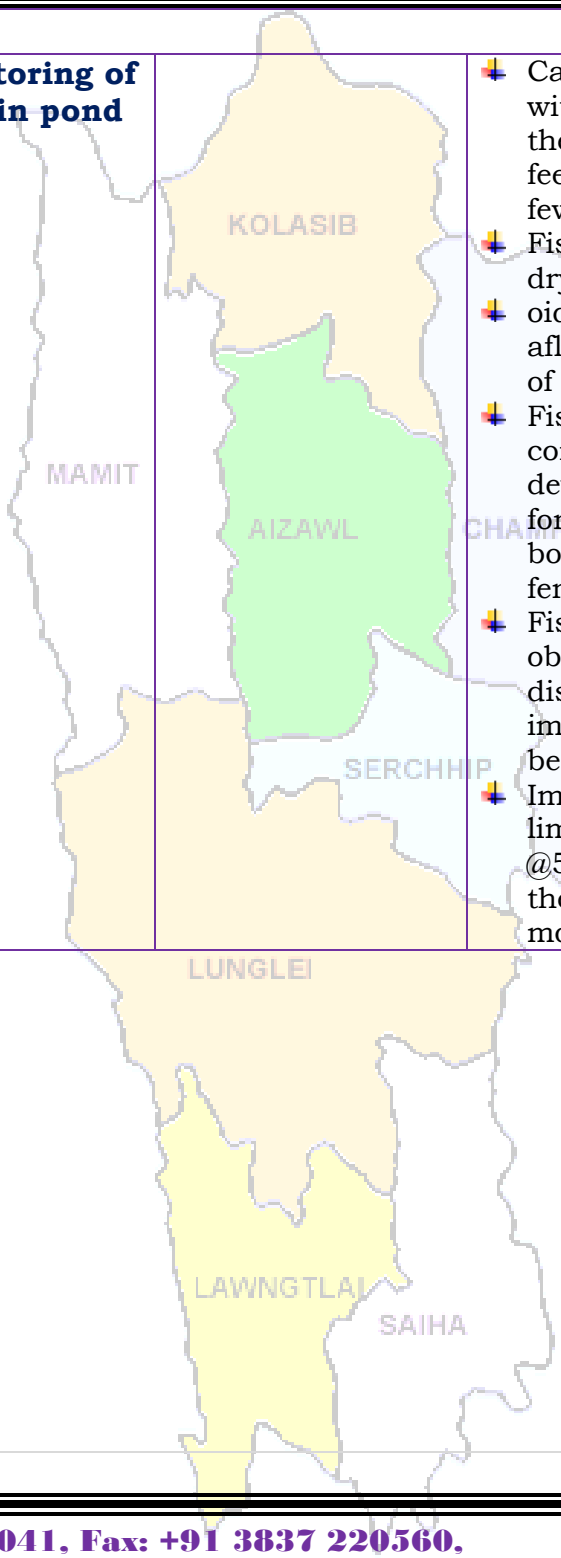
FISHERY

	Monitoring of fish in pond		✦ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ✦ Fish feed should be stored in cool and dry place to av ✦ oid fungal growth that releases aflatoxin which could lead to mortality of fish. ✦ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✦ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✦ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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: 28 April – 02 May, 2018**

Bulletin No: - 788/2018/ Bulletin/Mizo **Date of issue: 27th April, 2018**

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	3	0	0
Max Temp (°C)	31	31	31	32	32
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	77	100	99	95	100
Min RH (%)	18	21	25	31	28
Wind Speed (KmpH)	4	2	3	4	2
*Wind Direction	E	N-E	E	E	E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days

Maximum Tem. (°C):23°C
Minimum Tem. (°C):13°C
Maximum RH (%):92-97%
Minimum RH (%):48-63%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

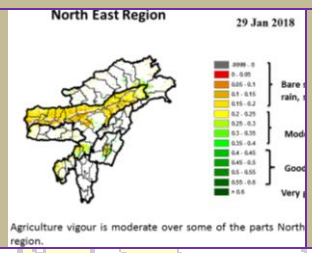
Rainfall: 20.1 mm

28th April – 02nd May, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 1 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 31-32°C a ni ang a. A vawh lai ber in 16°C ni tura beisei a ni. RH san lai berin 77-100% leh a hniam lai berin 18-31% 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:* 03.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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.
		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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: 28 April – 02 May, 2018**

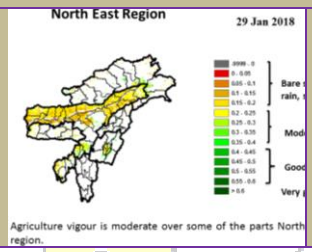
Bulletin No: - 788/2018/ Bulletin/English **Date of issue: 27th April, 2018**

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	6	3	0
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	16	16	16
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	65	82	96	95	95
Min RH (%)	22	23	28	31	34
Wind Speed (KmpH)	3	2	2	3	4
***Wind Direction**	S-E	S-E	S-E	S-E	S-E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days	Weather forecast valid from 28thApril, 2018 To 02ndMay, 2018.
Maximum Tem. (ºC):28-30ºC **Minimum Tem. (ºC):18-19ºC** **Maximum RH (%):92-98%** **Minimum RH (%):46-65%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 24.3 mm**	There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 16ºC. Maximum relative humidity is expected in the range of 65-95% and minimum may from 22-34%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **09.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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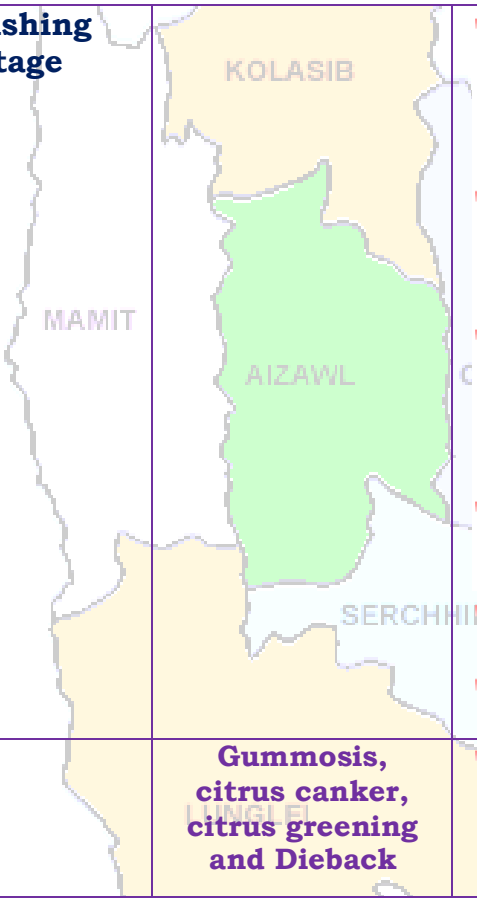
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **STAR FRUIT** **PLUM AND PEACH**	**Flushing stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the loss of healthy foliage. ✦ The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. ✦ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. ✦ Apply Bordeaux mixture to the plant after pruning. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).
		Gummosis, citrus canker, citrus greening and Dieback	✦ Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
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

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		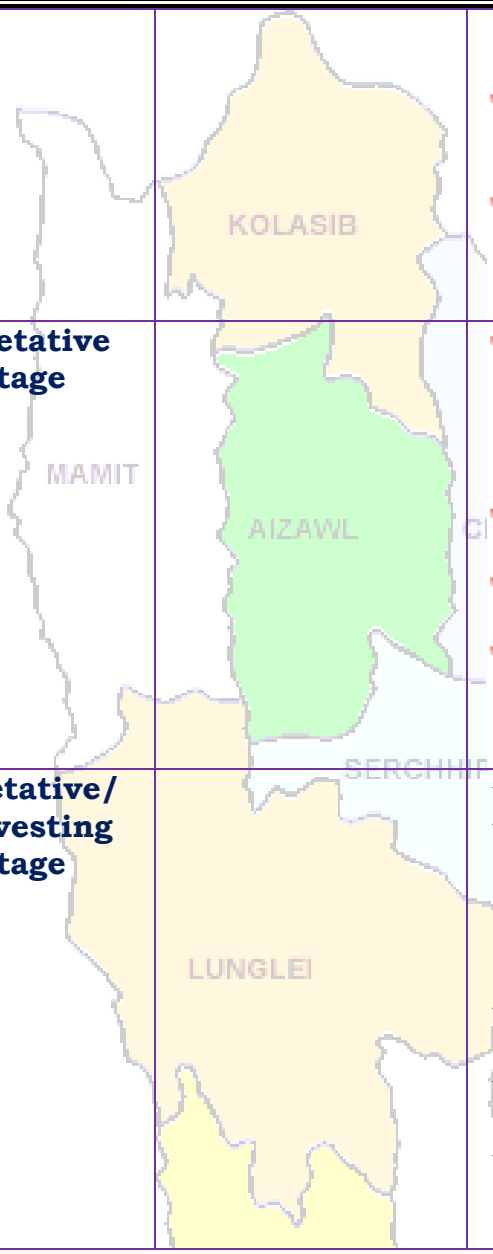	grasses near the tree base to conserve soil moisture during winter. + The young fruit plant must be irrigated at weekly interval for better establishment. + Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	**Vegetative stage**		+ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. + Farmers can go for tapping upto last week of January. + Make fire line around the field to save from fire. + Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	**Vegetative/ Harvesting stage**		❖ Provide irrigation 10-15 days internal. ❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. ❖ Application of split dose of fertilizer 600: 200:100 (g/pt). ❖ Apply Bordeaux mixture to the plant after pruning. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND PULSE CROPS			
Maize (*Jhum*)	**Sowing stage**		+ Remove all weed plant from the selected place. + Keep the plant, leaves and wood for dry.

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		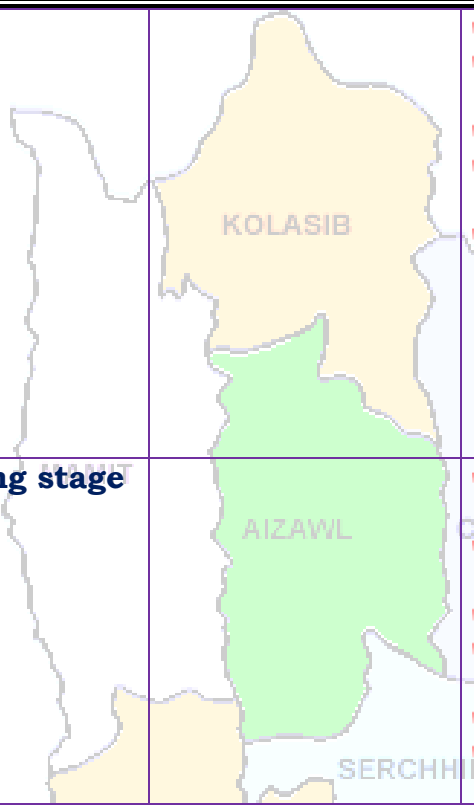	✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant. ✦ Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rice (*Jhum*)	**Sowing stage**		✦ Remove all weed plant from the selected place. ✦ Keep the plant, leaves and wood for dry. ✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant.
VEGETABLE CROP			
Ginger and turmeric	**Sowing stage**		✦ Rhizome should be treated with Thiram @4 g/kg seed. ✦ Use optimum seed rate (50-60 kg/ha) for desire plant population. ✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	**Bulb formation stage**	**Poly house**	✦ Provide irrigation every alternate day due to non availability of rain. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. ✦ Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
			Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	**Flowering to fruiting stage**	**Poly house**	Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	**Fruiting to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	**Vegetative to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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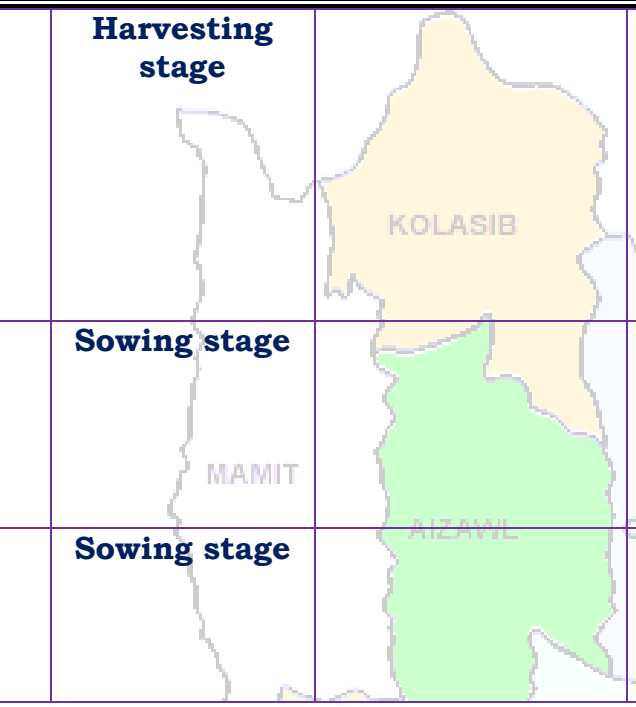
Potato	**Harvesting stage**		✦ If the leaves and plant became dry it means plant ready for harvesting. ✦ Open the furrow with the help of spade, harvest all mature tubers. ✦ Discard all mother tubers from harvested potato tubers. ✦ Keep 7 -10 days for drying or reduce the moisture level in shed dry. ✦ Keep 25% seed for next season sowing.
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**		✦ 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
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.

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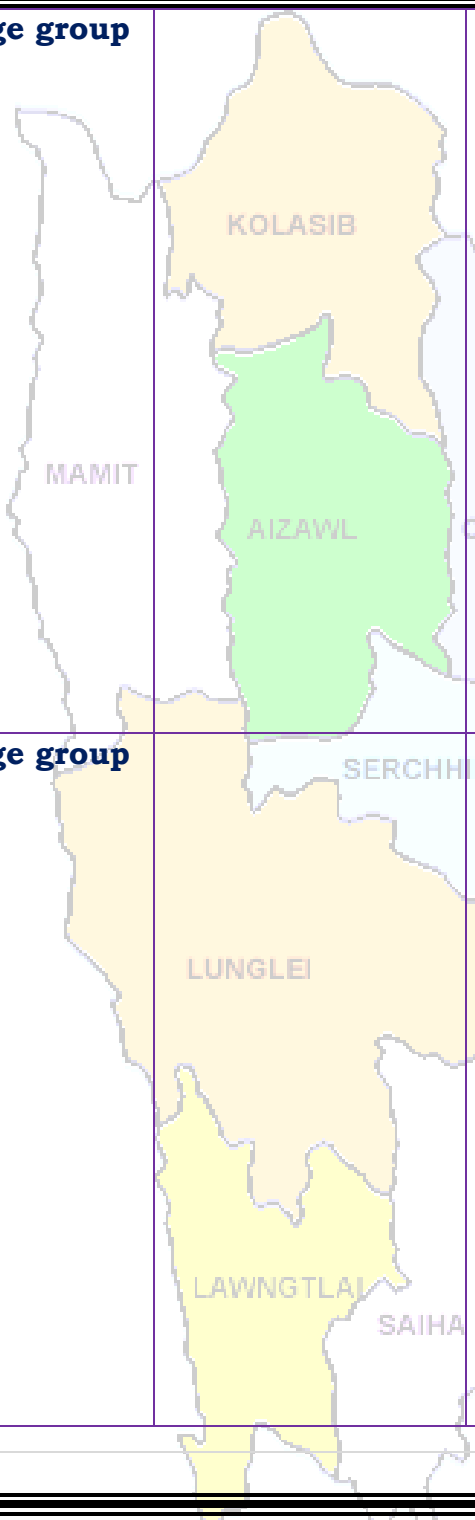
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✦ Remove wet litter.

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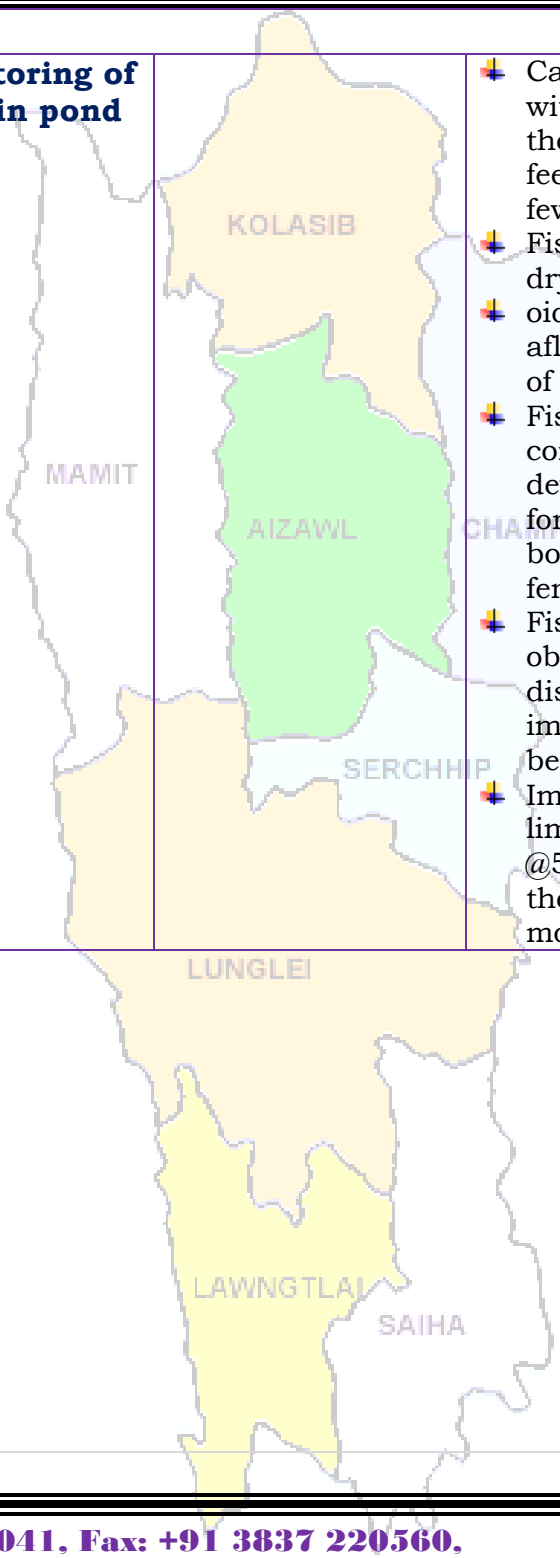
FISHERY

	Monitoring of fish in pond		✦ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ✦ Fish feed should be stored in cool and dry place to av ✦ oid fungal growth that releases aflatoxin which could lead to mortality of fish. ✦ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✦ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✦ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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: 28 April – 02 May, 2018**

Bulletin No: - 788/2018/ Bulletin/Mizo **Date of issue: 27th April, 2018**

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	6	3	0
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	65	82	96	95	95
Min RH (%)	22	23	28	31	34
Wind Speed (KmpH)	3	2	2	3	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days

Maximum Tem. (°C):28-30°C
Minimum Tem. (°C):18-19°C
Maximum RH (%):92-98%
Minimum RH (%):46-65%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

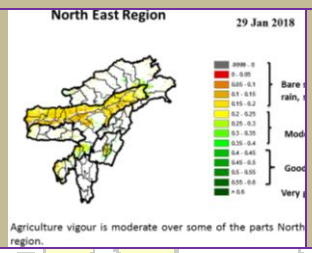
Rainfall: 24.3 mm

28th April – 02nd May, 2018 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 30-31°C a ni ang a. A vawh lai ber in 16°C ni tura beisei a ni. RH san lai berin 65-95% leh a hniam lai berin 22-34% 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: **09.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	**A kui atanga a seng hun**		✦ 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. Sneng 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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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:** 28 April – 02 May, 2018

Bulletin No: - 788/2018/ Bulletin/English **Date of issue:** 27th April, 2018

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	16	16	16
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	62	95	82	79	88
Min RH (%)	15	16	20	24	23
Wind Speed (KmpH)	4	4	4	4	3
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days

Maximum Tem. (ºC): 23-24ºC
Minimum Tem. (ºC): 15ºC
Maximum RH (%): 88-96%
Minimum RH (%): 48-62%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind speed: 1-2 km/hr

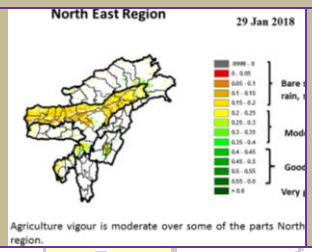
Rainfall: 16.3 mm

Weather forecast valid from 28thApril, 2018 To 02ndMay, 2018.

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 16ºC. Maximum relative humidity is expected in the range of 62-95% and minimum may from 15-24%. Wind direction would be easterly with the wind speed of 3-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: **00.0 mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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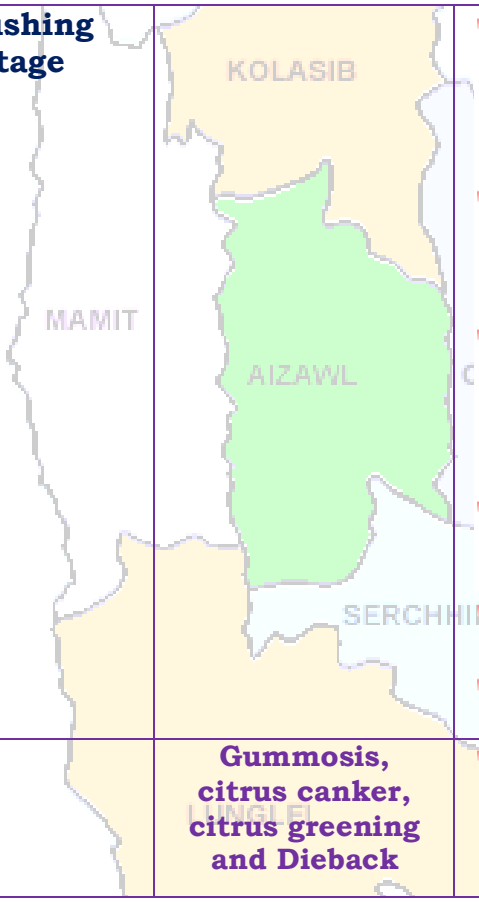
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **STAR FRUIT** **PLUM AND PEACH**	**Flushing stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the loss of healthy foliage. ✦ The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. ✦ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. ✦ Apply Bordeaux mixture to the plant after pruning. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).
		Gummosis, citrus canker, citrus greening and Dieback	✦ Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
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

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		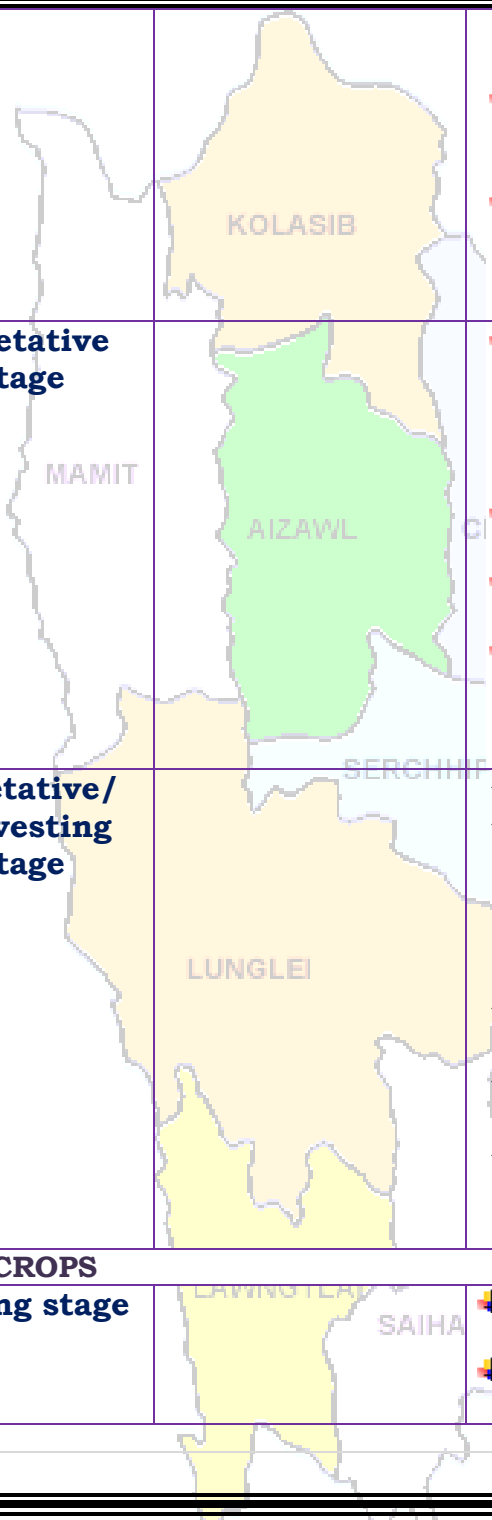	grasses near the tree base to conserve soil moisture during winter. + The young fruit plant must be irrigated at weekly interval for better establishment. + Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	**Vegetative stage**		+ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. + Farmers can go for tapping upto last week of January. + Make fire line around the field to save from fire. + Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	**Vegetative/ Harvesting stage**		❖ Provide irrigation 10-15 days internal. ❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. ❖ Application of split dose of fertilizer 600: 200:100 (g/pt). ❖ Apply Bordeaux mixture to the plant after pruning. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND PULSE CROPS			
Maize (*Jhum*)	**Sowing stage**		+ Remove all weed plant from the selected place. + Keep the plant, leaves and wood for dry.

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		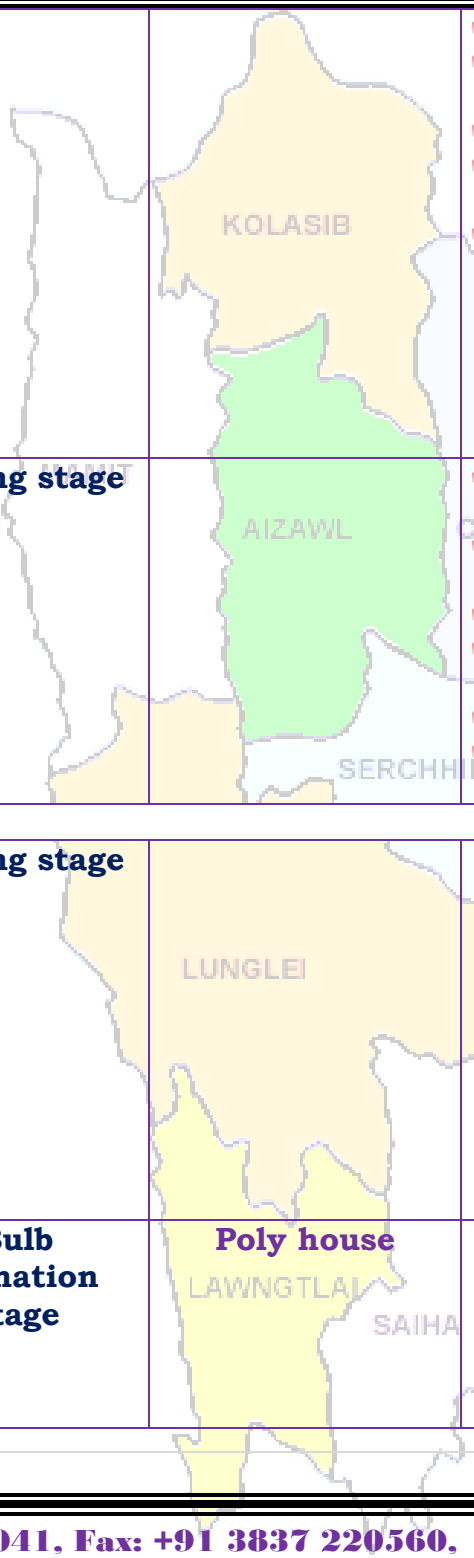	✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant. ✦ Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rice (*Jhum*)	**Sowing stage**		✦ Remove all weed plant from the selected place. ✦ Keep the plant, leaves and wood for dry. ✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant.
VEGETABLE CROP			
Ginger and turmeric	**Sowing stage**		✦ Rhizome should be treated with Thiram @4 g/kg seed. ✦ Use optimum seed rate (50-60 kg/ha) for desire plant population. ✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	**Bulb formation stage**	**Poly house**	✦ Provide irrigation every alternate day due to non availability of rain. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. ✦ Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
			Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	**Flowering to fruiting stage**	**Poly house**	Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	**Fruiting to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	**Vegetative to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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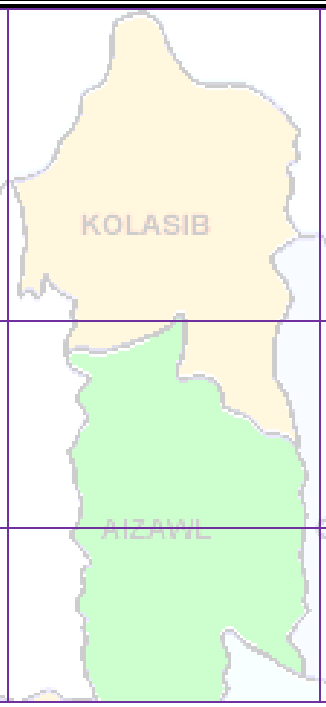
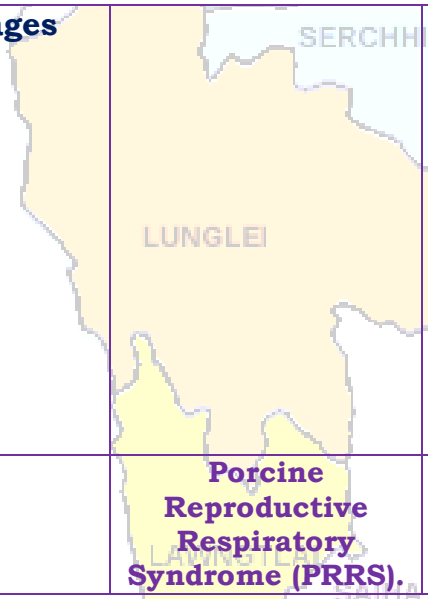
Potato	**Harvesting stage**		✦ If the leaves and plant became dry it means plant ready for harvesting. ✦ Open the furrow with the help of spade, harvest all mature tubers. ✦ Discard all mother tubers from harvested potato tubers. ✦ Keep 7 -10 days for drying or reduce the moisture level in shed dry. ✦ Keep 25% seed for next season sowing.
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**		✦ 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
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.

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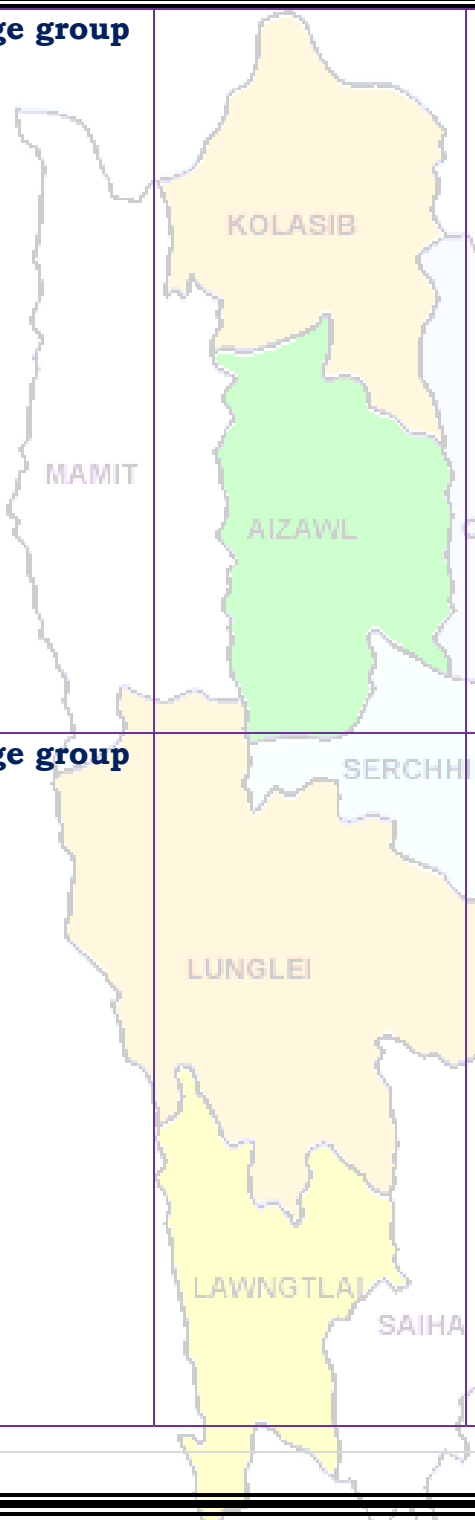
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✦ Remove wet litter.

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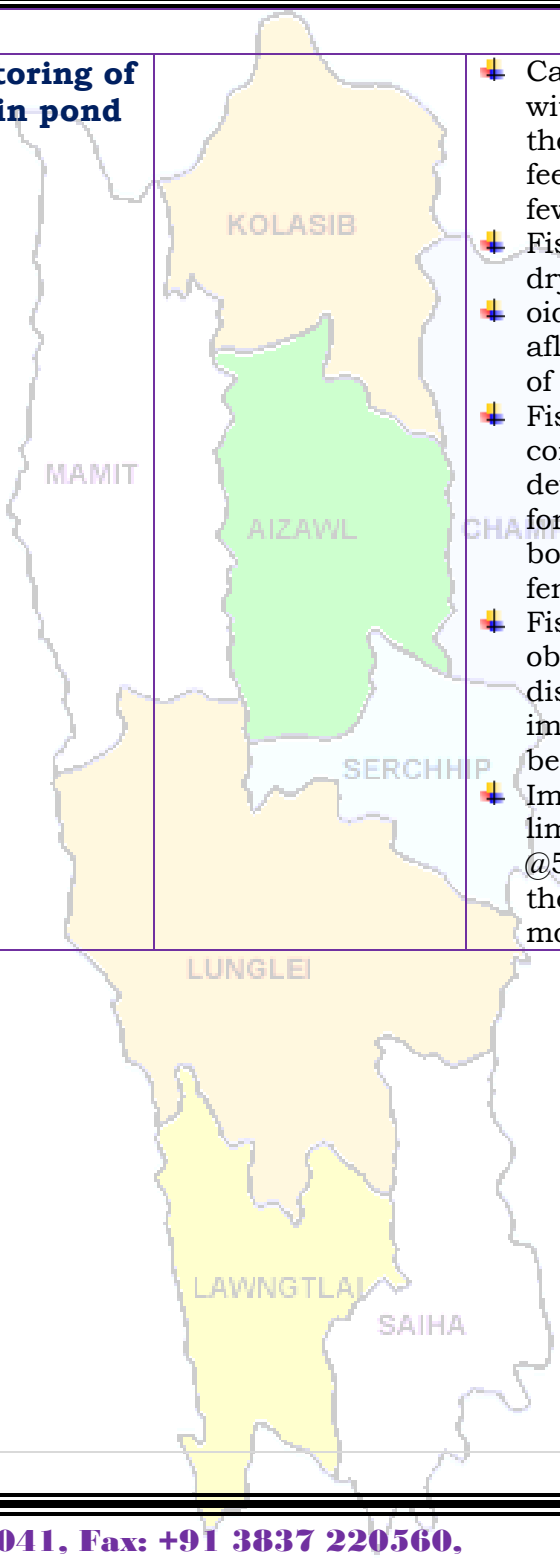
FISHERY

	Monitoring of fish in pond		✦ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ✦ Fish feed should be stored in cool and dry place to av ✦ oid fungal growth that releases aflatoxin which could lead to mortality of fish. ✦ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✦ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✦ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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

District: Saiha **Period:** 28 April – 02 May, 2018

Bulletin No: - 788/2018/ Bulletin/Mizo **Date of issue:** 27th April, 2018

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Min RH (%)	15	16	20	24	23
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*Wind Direction	E	E	E	E	E

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

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

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Maximum RH (%): 88-96%
Minimum RH (%): 48-62%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind speed: 1-2 km/hr

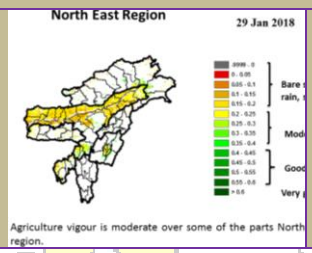
Rainfall: 16.3 mm

28th April – 02nd May, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31ºC a ni ang a. A vawh lai ber in 16ºC ni tura beisei a ni. RH san lai berin of 62-95% leh a hniam lai berin 15-24% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **00.0mm**

NDVI for Mizoram



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	**A kui atanga a seng hun**		✦ 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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: Serchhip **Period:** 28 April – 02 May, 2018

Bulletin No: - 788/2018/ Bulletin/English **Date of issue:** 27th April, 2018

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	29	29	29	30	30
Min Temp (ºC)	14	14	14	14	14
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	66	100	95	96	97
Min RH (%)	17	18	22	27	27
Wind Speed (KmpH)	4	2	3	3	3
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days

Maximum Tem. (ºC): 27-28ºC
Minimum Tem. (ºC): 15ºC
Maximum RH (%): 91-94%
Minimum RH (%): 47-65%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

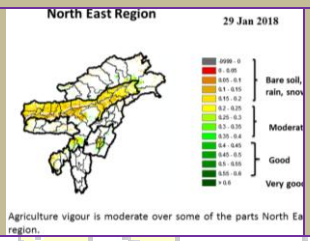
Rainfall: 18.1 mm

Weather forecast valid from 28thApril, 2018 To 02ndMay, 2018.

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30ºC and 14ºC. Maximum relative humidity is expected in the range of 66-100% and minimum may from 17-27%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: **00.0 mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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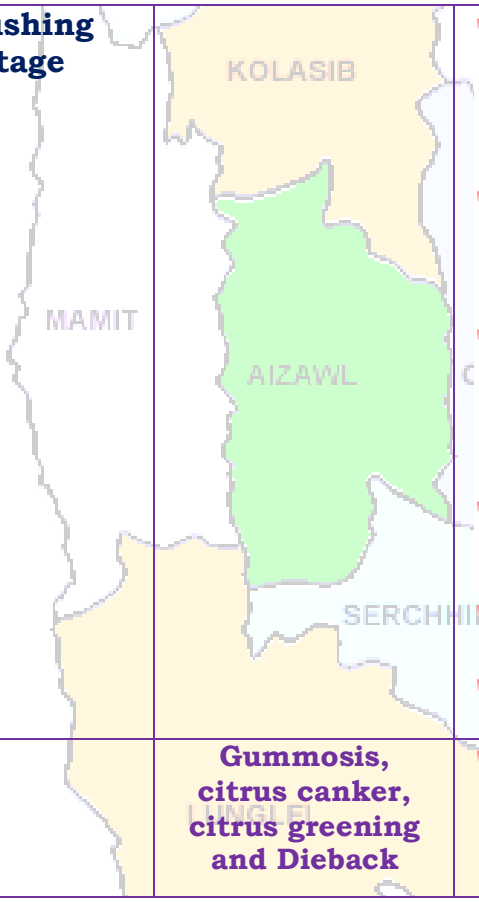
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **STAR FRUIT** **PLUM AND PEACH**	**Flushing stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the loss of healthy foliage. ✦ The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. ✦ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. ✦ Apply Bordeaux mixture to the plant after pruning. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).
		Gummosis, citrus canker, citrus greening and Dieback	✦ Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
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

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		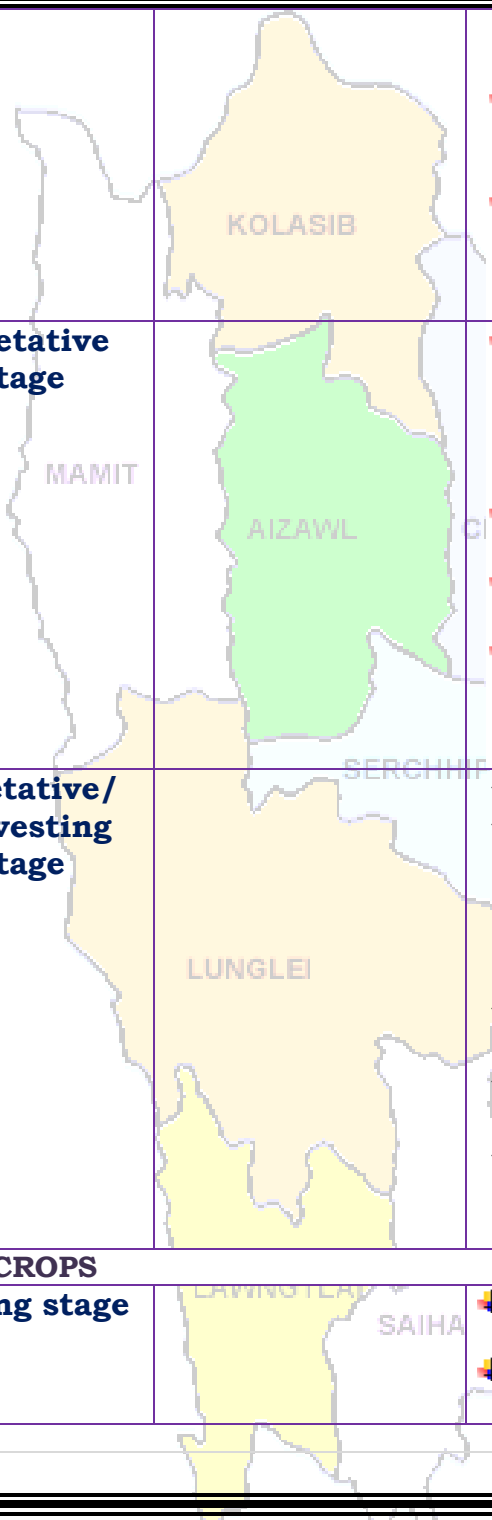	grasses near the tree base to conserve soil moisture during winter. + The young fruit plant must be irrigated at weekly interval for better establishment. + Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	**Vegetative stage**		+ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. + Farmers can go for tapping upto last week of January. + Make fire line around the field to save from fire. + Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	**Vegetative/ Harvesting stage**		❖ Provide irrigation 10-15 days internal. ❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. ❖ Application of split dose of fertilizer 600: 200:100 (g/pt). ❖ Apply Bordeaux mixture to the plant after pruning. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND PULSE CROPS			
Maize (*Jhum*)	**Sowing stage**		+ Remove all weed plant from the selected place. + Keep the plant, leaves and wood for dry.

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		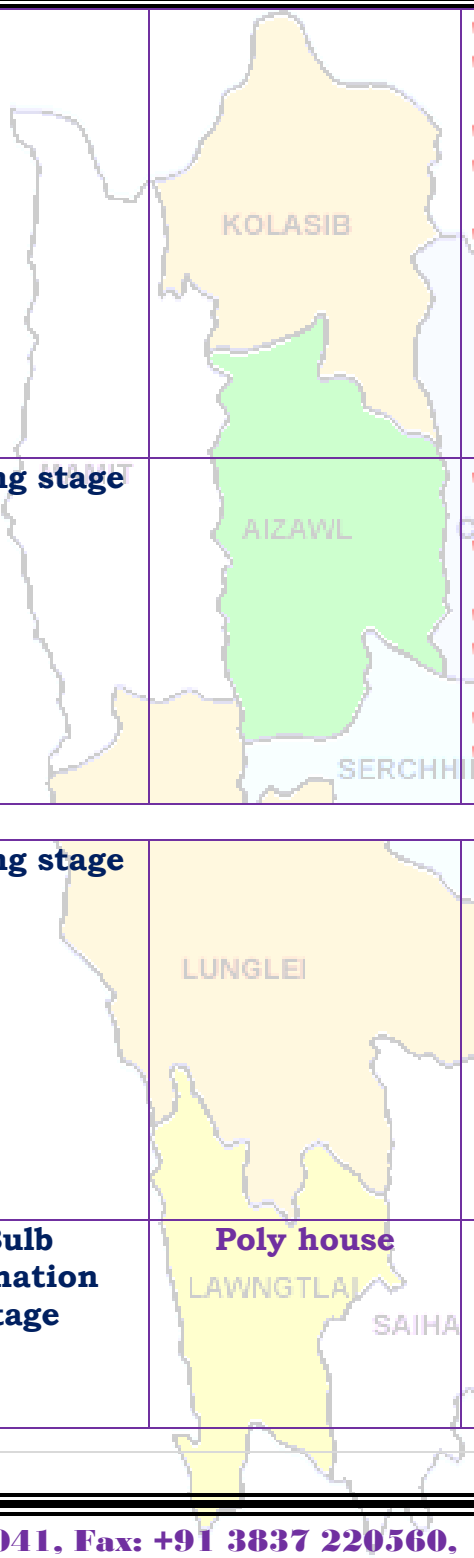	✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant. ✦ Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and K_2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rice (*Jhum*)	**Sowing stage**		✦ Remove all weed plant from the selected place. ✦ Keep the plant, leaves and wood for dry. ✦ Burn it when it will be dry. ✦ Open a furrow with the help of chimkhawi. ✦ Keep 4-5 seeds a hole. ✦ Distance should be maintain 60 cm from plant to plant.
VEGETABLE CROP			
Ginger and turmeric	**Sowing stage**		✦ Rhizome should be treated with Thiram @4 g/kg seed. ✦ Use optimum seed rate (50-60 kg/ha) for desire plant population. ✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	**Bulb formation stage**	**Poly house**	✦ Provide irrigation every alternate day due to non availability of rain. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. ✦ Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
			Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	**Flowering to fruiting stage**	**Poly house**	Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	**Fruiting to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	**Vegetative to flowering stage**		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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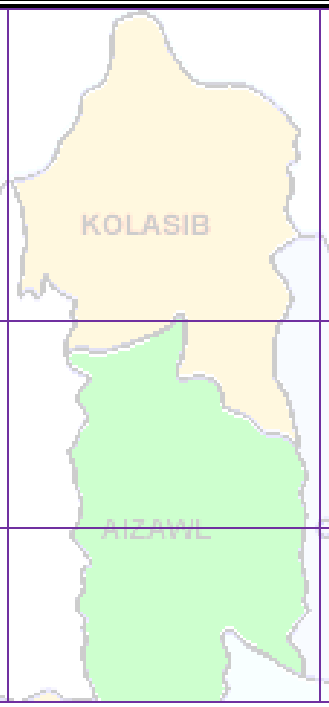
Potato	**Harvesting stage**		✦ If the leaves and plant became dry it means plant ready for harvesting. ✦ Open the furrow with the help of spade, harvest all mature tubers. ✦ Discard all mother tubers from harvested potato tubers. ✦ Keep 7 -10 days for drying or reduce the moisture level in shed dry. ✦ Keep 25% seed for next season sowing.
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**		✦ 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
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.

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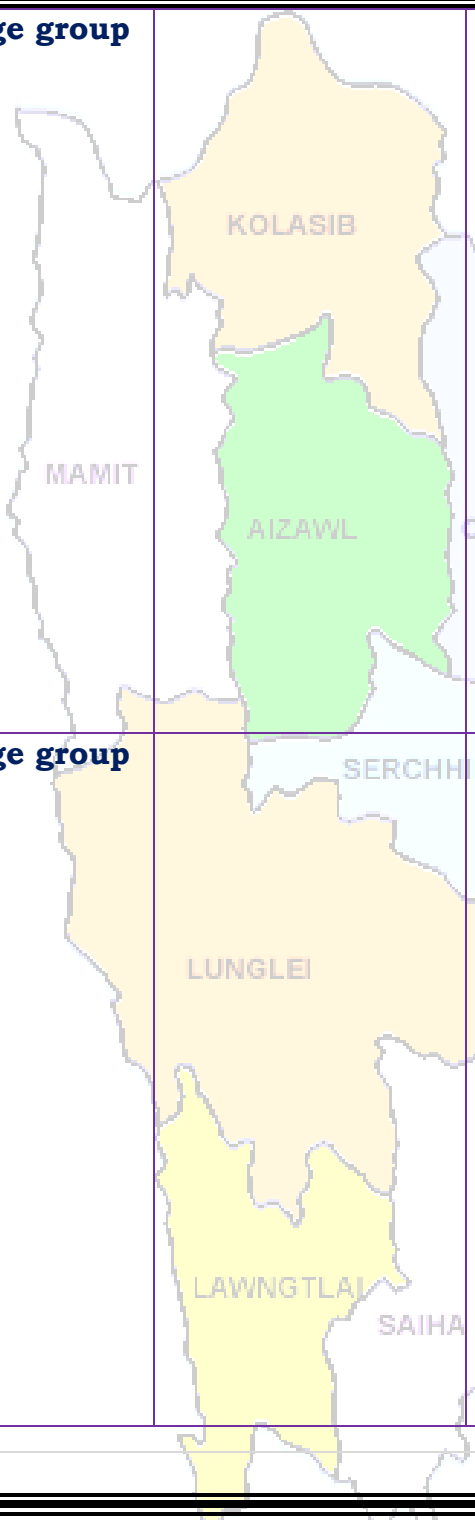
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✦ Remove wet litter.

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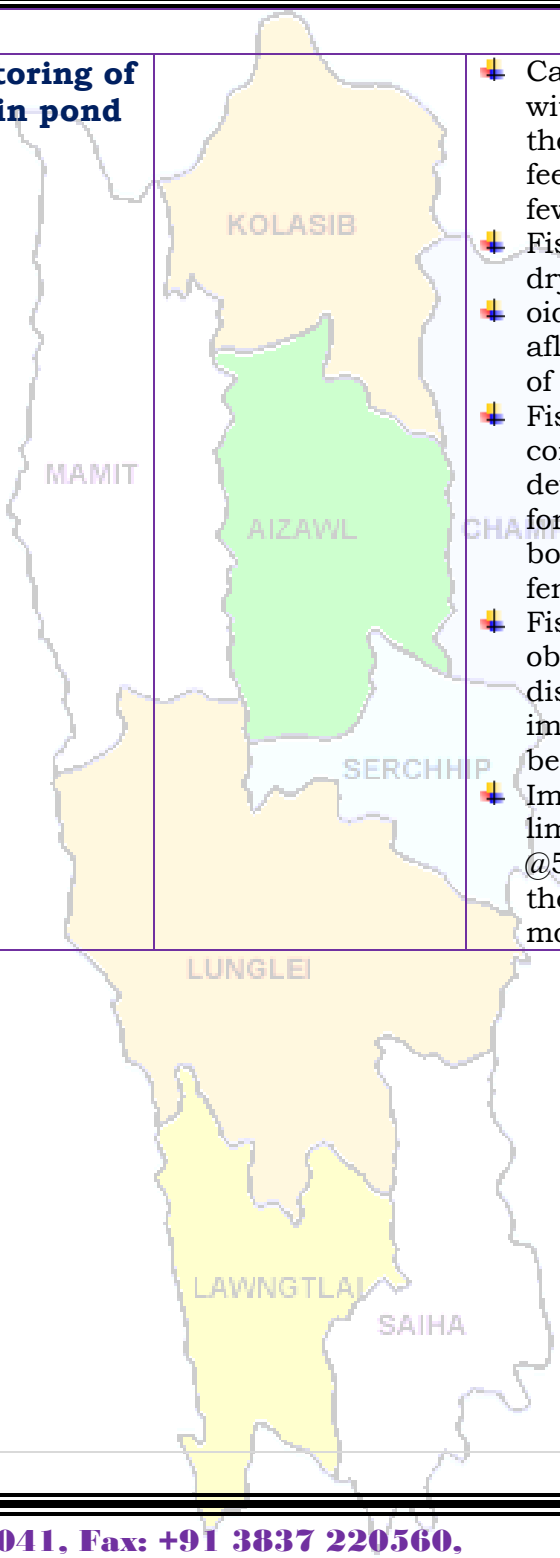
FISHERY

	Monitoring of fish in pond		✦ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ✦ Fish feed should be stored in cool and dry place to av ✦ oid fungal growth that releases aflatoxin which could lead to mortality of fish. ✦ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✦ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✦ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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: Serchhip **Period:** 28 April – 02 May, 2018

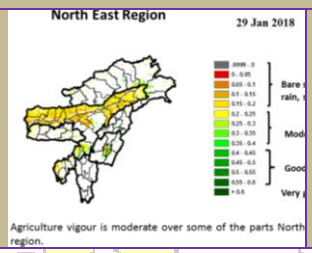
Bulletin No: - 788/2018/ Bulletin/Mizo **Date of issue:** 27th April, 2018

Parameters	28.04.2018	29.04.2018	30.04.2018	01.05.2018	02.05.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	29	29	29	30	30
Min Temp (ºC)	14	14	14	14	14
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	66	100	95	96	97
Min RH (%)	17	18	22	27	27
Wind Speed (KmpH)	4	2	3	3	3
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 8.42 mm (4.20mm)	Champhai- 9.28 mm (5.10mm)	Saiha- 11.37 mm (3.60mm)	Kolasib- 10.51 mm (10.80mm)
Lawngtlai-7.84mm (3.40mm)	Lunglei-6.35mm (4.10mm)	Mamit-8.21mm (8.30mm)	Serchhip-6.37mm (5.20mm)

Weather summary of the past three days	28th April – 02nd May, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):27-28ºC **Minimum Tem. (ºC):**15ºC **Maximum RH (%):**91-94% **Minimum RH (%):**47-65% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 18.1 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30ºC a ni ang a. A vawh lai ber in 14ºC ni tura beisei a ni. RH san lai berin 66-100% leh a hniam lai berin 17-27% 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:*** **00.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh 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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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