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: 02 December – 06 December, 2017**

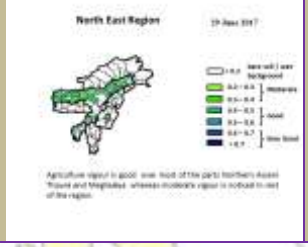
Bulletin No: - 753/2017/ Bulletin/English **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	28	28	28	27	27
Min Temp (ºC)	12	12	12	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy
Max RH (%)	78	81	80	77	75
Min RH (%)	39	34	31	31	29
Wind Speed (KmpH)	3	3	3	4	4
***Wind Direction**	E	E	E	S-E	E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	Weather forecast valid from 02nd December, 2017 To 06thDecember, 2017.
Maximum Tem. (ºC):18-20ºC **Minimum Tem. (ºC):**10-12ºC **Maximum RH (%):**85-96% **Minimum RH (%):**55-68% **Wind Direction:** Northeasterly **Cloud cover:** Mainly clear **Wind speed:** 2 km/hr **Rainfall:** 00.0 mm	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28ºC and 11-12ºC. Maximum relative humidity is expected in the range of 75-81% and minimum may from 29-34%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 3-4 km per hour. 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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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**	**Fruiting 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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ Diseased and senile branches should be removed
		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.
		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	**Fruiting 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. **Replanting of new seedling** ✦ Medium to young seedling should be support by bamboo stake. ✦ Replace dead plant with young seedlings. ✦ Fertilizer dose should be maintained. **Fruiting stage** ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			SSP @ 1.5 g per 200 lt of water 15 days interval. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. - Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
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. - Use grass or straw mulch to prevent from water loss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Vegetative stage**		- Possibility of rain will be very less. So provide water every alternate day. - Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. - Weeding should to do properly with proper fertilizer use.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

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VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			day
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

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			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
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

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			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.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production. - The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. - Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. - Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
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Bulletin No: - 753/2017/ Bulletin/Mizo **Date of issue: 01st December, 2017**

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*Wind Direction	E	E	E	S-E	E

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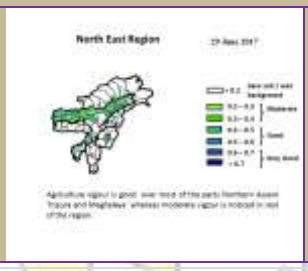
Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	02nd December – 06th December, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC): 18-20ºC **Minimum Tem. (ºC):** 10-12ºC **Maximum RH (%):** 85-96% **Minimum RH (%):** 55-68% **Wind Direction:** Northeasterly **Cloud cover:** Mainly clear **Wind speed:** 2 km/hr **Rainfall:** 00.0 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28ºC a ni ang a. A vawh lai ber in 11-12ºC ni tura beisei a ni. RH san lai berin 75-81% leh a hniam lai berin 29-34% 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	 Mildly dry condition occurs in all districts of Mizoram.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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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E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ 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			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period: 02 December – 06 December, 2017**

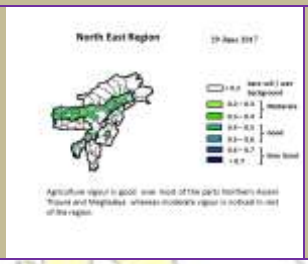
Bulletin No: - 753/2017/ Bulletin/English **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	27	27	26
Min Temp (ºC)	13	12	12	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy
Max RH (%)	75	77	80	84	84
Min RH (%)	33	26	23	30	33
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	Weather forecast valid from 02nd December, 2017 To 06thDecember, 2017.
Maximum Tem. (ºC):16-17ºC **Minimum Tem. (ºC):10-12ºC** **Maximum RH (%):72-88%** **Minimum RH (%):55-72%** **Wind Direction: Northeasterly** **Cloud cover: Mainly clear** **Wind speed: 2 km/hr** **Rainfall: 00.0 mm**	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27ºC and 11-13ºC. Maximum relative humidity is expected in the range of 75-84% and minimum may from 23-33%. Wind direction would be easterly with the wind speed of 4 km per hour. Mainly clear 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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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**	**Fruiting 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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ Diseased and senile branches should be removed
		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.
		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	**Fruiting 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. **Replanting of new seedling** ✦ Medium to young seedling should be support by bamboo stake. ✦ Replace dead plant with young seedlings. ✦ Fertilizer dose should be maintained. **Fruiting stage** ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
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. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Vegetative stage**		Possibility of rain will be very less. So provide water every alternate day. Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. Weeding should to do properly with proper fertilizer use.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		Birds scaring ribbon should be used for scaring the birds. Harvest all mature panicle to reduce bird damage. Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate day
			✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field. ✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			on ridges. Provide water every alternate day.
French bean	**Germination stage**		Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m^2) Provide water every alternate day.
Potato	**Sowing stage**		Prepare the land for potato cultivation without any further delay. This may help to avoid some bacterial infection at growing stage. Land may be ploughed thoroughly for proper tillage. If land is prepared good quality of seeds may be collected for planting. Cultivation from TPS is also found profitable. Seed must be treated before sowing.
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	1. Culling of positive pigs or piglets.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Syndrome (PRRS).	
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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			↓ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		↓ Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. ↓ Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. ↓ Application of plankton inoculum from other ponds could help in development of plankton production. ↓ The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. ↓ Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. ↓ Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period: 02 December – 06 December, 2017**

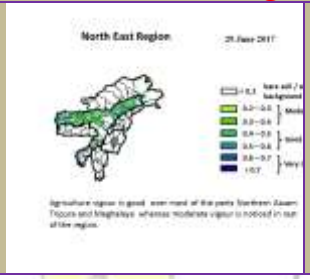
Bulletin No: - 753/2017/ Bulletin/Mizo **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	27	27	26
Min Temp (ºC)	13	12	12	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy
Max RH (%)	75	77	80	84	84
Min RH (%)	33	26	23	30	33
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	02nd December – 06th December, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):16-17ºC **Minimum Tem. (ºC):10-12ºC** **Maximum RH (%):72-88%** **Minimum RH (%):55-72%** **Wind Direction: Northeasterly** **Cloud cover: Mainly clear** **Wind speed: 2 km/hr** **Rainfall: 00.0 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27ºC a ni ang a. A vawh lai ber in 11-13ºC ni tura beisei a ni. RH san lai berin of 75-84% leh a hniam lai berin 23-33% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 00.0mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ 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			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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: 02 December – 06 December, 2017**

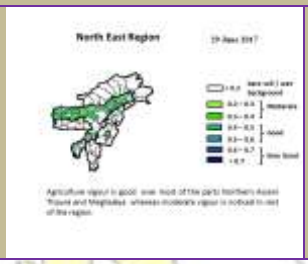
Bulletin No: - 753/2017/ Bulletin/English **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	25
Min Temp (ºC)	15	15	14	14	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Mainly cloudy
Max RH (%)	80	78	81	78	75
Min RH (%)	46	43	41	38	36
Wind Speed (KmpH)	2	3	4	4	4
*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 Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	Weather forecast valid from 02nd December, 2017 To 06thDecember, 2017.
Maximum Tem. (ºC):23-25ºC **Minimum Tem. (ºC):**13-14ºC **Maximum RH (%):**72-89% **Minimum RH (%):**55-68% **Wind Direction:** Northeasterly **Cloud cover:** Partially clear **Wind speed:** 2 km/hr **Rainfall:** 00.0 mm	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25ºC and 14-15ºC. Maximum relative humidity is expected in the range of 75-81% and minimum may from 36-46%. Wind direction would be easterly to southeasterly with the wind speed of 2-4 km per hour. Mainly clear 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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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**	**Fruiting 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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ Diseased and senile branches should be removed
		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.
		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	**Fruiting 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. **Replanting of new seedling** ✦ Medium to young seedling should be support by bamboo stake. ✦ Replace dead plant with young seedlings. ✦ Fertilizer dose should be maintained. **Fruiting stage** ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
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. Use grass or straw mulch to prevent from water loss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Vegetative stage**		Possibility of rain will be very less. So provide water every alternate day. Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. Weeding should to do properly with proper fertilizer use.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		Birds scaring ribbon should be used for scaring the birds. Harvest all mature panicle to reduce bird damage. Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			day
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

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			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production. - The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. - Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. - Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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:** 02 December – 06 December, 2017

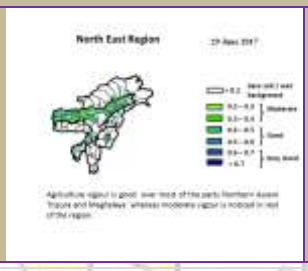
Bulletin No: - 753/2017/ Bulletin/Mizo **Date of issue:** 01st December, 2017

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	25
Min Temp (ºC)	15	15	14	14	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Mainly cloudy
Max RH (%)	80	78	81	78	75
Min RH (%)	46	43	41	38	36
Wind Speed (KmpH)	2	3	4	4	4
*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 Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	02nd December – 06th December, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):23-25ºC **Minimum Tem. (ºC):**13-14ºC **Maximum RH (%):**72-89% **Minimum RH (%):**55-68% **Wind Direction:** Northeasterly **Cloud cover:** Partially clear **Wind speed:** 2 km/hr **Rainfall:** 00.0 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25ºC a ni ang a. A vawh lai ber in 14-15ºC ni tura beisei a ni. RH san lai berin 75-81% leh a hniam lai berin 36-46% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **00.0mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ 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			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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: Lawngthai **Period:** 02 December – 06 December, 2017

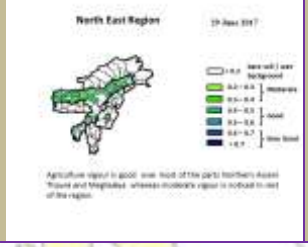
Bulletin No: - 753/2017/ Bulletin/English **Date of issue:** 01st December, 2017

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	28	28	28	27	27
Min Temp (ºC)	12	12	12	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy
Max RH (%)	78	81	80	77	75
Min RH (%)	39	34	31	31	29
Wind Speed (KmpH)	3	3	3	4	4
*Wind Direction	E	E	E	S-E	E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	Weather forecast valid from 02nd December, 2017 To 06thDecember, 2017.
Maximum Tem. (ºC):18-21ºC **Minimum Tem. (ºC):**15-17ºC **Maximum RH (%):**78-89% **Minimum RH (%):**63-72% **Wind Direction:** Northeasterly **Cloud cover:** Mainly clear **Wind speed:** 1 km/hr **Rainfall:** 00.0 mm	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28ºC and 11-12ºC. Maximum relative humidity is expected in the range of 75-81% and minimum may from 29-34%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 3-4 km per hour. 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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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**	**Fruiting 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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ Diseased and senile branches should be removed
		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.
		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	**Fruiting 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. **Replanting of new seedling** ✦ Medium to young seedling should be support by bamboo stake. ✦ Replace dead plant with young seedlings. ✦ Fertilizer dose should be maintained. **Fruiting stage** ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			SSP @ 1.5 g per 200 lt of water 15 days interval. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. - Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
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. - Use grass or straw mulch to prevent from water loss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Vegetative stage**		- Possibility of rain will be very less. So provide water every alternate day. - Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. - Weeding should to do properly with proper fertilizer use.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			day
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production. - The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. - Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. - Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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:** 02 December – 06 December, 2017

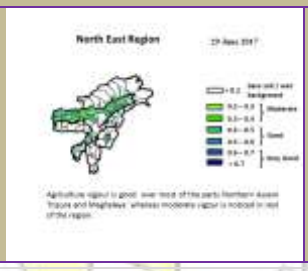
Bulletin No: - 753/2017/ Bulletin/Mizo **Date of issue:** 01st December, 2017

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	28	28	28	27	27
Min Temp (ºC)	12	12	12	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy
Max RH (%)	78	81	80	77	75
Min RH (%)	39	34	31	31	29
Wind Speed (KmpH)	3	3	3	4	4
*Wind Direction	E	E	E	S-E	E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	02nd December – 06th December, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC): 18-21ºC **Minimum Tem. (ºC):** 15-17ºC **Maximum RH (%):** 78-89% **Minimum RH (%):** 63-72% **Wind Direction:** Northeasterly **Cloud cover:** Mainly clear **Wind speed:** 1 km/hr **Rainfall:** 00.0 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28ºC a ni ang a. A vawh lai ber in 11-12ºC ni tura beisei a ni. RH san lai berin 75-81% leh a hniam lai berin 29-34% 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	 Moderately wet mildly dry/mildly wet conditions

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ 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			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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: 02 December – 06 December, 2017**

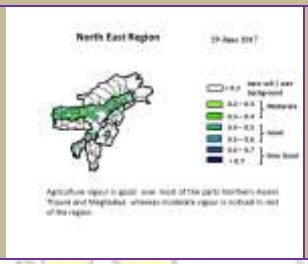
Bulletin No: - 753/2017/ Bulletin/English **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	25
Min Temp (ºC)	15	15	14	14	14
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Mainly clear	Mainly cloudy
Max RH (%)	80	78	81	78	75
Min RH (%)	46	43	41	38	36
Wind Speed (KmpH)	2	3	4	4	4
*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 Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	Weather forecast valid from 02nd December, 2017 To 06thDecember, 2017.
Maximum Tem. (ºC):18-19ºC **Minimum Tem. (ºC):**11-13ºC **Maximum RH (%):**80-92% **Minimum RH (%):**61-69% **Wind Direction:** Northeasterly **Cloud cover:** Mainly clear **Wind speed:** 1-2 km/hr **Rainfall:** 00.0 mm	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 24-25ºC and 14-15ºC. Maximum relative humidity is expected in the range of 75-81% and minimum may from 36-46%. Wind direction would be easterly southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **00.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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**	**Fruiting 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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ Diseased and senile branches should be removed
		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.
		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	**Fruiting 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. **Replanting of new seedling** ✦ Medium to young seedling should be support by bamboo stake. ✦ Replace dead plant with young seedlings. ✦ Fertilizer dose should be maintained. **Fruiting stage** ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			SSP @ 1.5 g per 200 lt of water 15 days interval. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. - Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
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. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Vegetative stage**		- Possibility of rain will be very less. So provide water every alternate day. - Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. - Weeding should to do properly with proper fertilizer use.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate day
			✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✚ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✚ Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	✚ Chilli will be planted in well pulverized and leveled field. ✚ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✚ Application of FYM (1.5-2.0 kg/ m^2) ✚ Provide water every alternate day.
Brinjal	**Transplant stage**		✚ Brinjal will be planted in well pulverized and leveled field. ✚ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✚ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide water every alternate day
Chilli	**Transplant stage**		✚ Chilli will be planted in well pulverized and leveled field. ✚ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✚ Application of FYM (1.5-2.0 kg/ m^2) ✚ Provide water every alternate day.
Tomato	**Transplant stage**		✚ Tomato will be planted in well pulverized and leveled field. ✚ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✚ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			on ridges. Provide water every alternate day.
French bean	**Germination stage**		Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m^2) Provide water every alternate day.
Potato	**Sowing stage**		Prepare the land for potato cultivation without any further delay. This may help to avoid some bacterial infection at growing stage. Land may be ploughed thoroughly for proper tillage. If land is prepared good quality of seeds may be collected for planting. Cultivation from TPS is also found profitable. Seed must be treated before sowing.
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	1. Culling of positive pigs or piglets.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Syndrome (PRRS).	
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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		✦ Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. ✦ Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. ✦ Application of plankton inoculum from other ponds could help in development of plankton production. ✦ The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. ✦ Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. ✦ Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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: 02 December – 06 December, 2017**

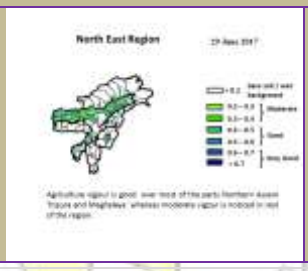
Bulletin No: - 753/2017/ Bulletin/Mizo **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	25
Min Temp (ºC)	15	15	14	14	14
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Mainly clear	Mainly cloudy
Max RH (%)	80	78	81	78	75
Min RH (%)	46	43	41	38	36
Wind Speed (KmpH)	2	3	4	4	4
*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 Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	02nd December – 06th December, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):18-19ºC **Minimum Tem. (ºC):11-13ºC** **Maximum RH (%):80-92%** **Minimum RH (%):61-69%** **Wind Direction: Northeasterly** **Cloud cover: Mainly clear** **Wind speed: 1-2 km/hr** **Rainfall: 00.0 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 24-25ºC a ni ang a. A vawh lai ber in 14-15ºC ni tura beisei a ni. RH san lai berin 75-81% leh a hniam lai berin 36-46% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 00.0mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ 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			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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: 02 December – 06 December, 2017**

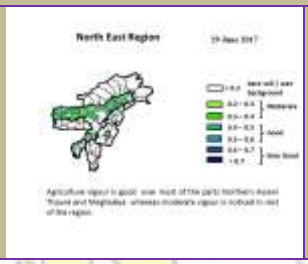
Bulletin No: - 753/2017/ Bulletin/English **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	25
Min Temp (ºC)	15	15	14	14	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Mainly cloudy
Max RH (%)	80	78	81	78	75
Min RH (%)	46	43	41	38	36
Wind Speed (KmpH)	2	3	4	4	4
***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 Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	Weather forecast valid from 02nd December, 2017 To 06thDecember, 2017.
Maximum Tem. (ºC):24-26ºC **Minimum Tem. (ºC):**14-16ºC **Maximum RH (%):**84-97% **Minimum RH (%):**61-78% **Wind Direction:** Northeasterly **Cloud cover:** Partially clear **Wind speed:** 2 km/hr **Rainfall:** 00.0 mm	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 24-25ºC and 14-15ºC. Maximum relative humidity is expected in the range of 75-81% and minimum may from 36-41%. Wind direction would be easterly to southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **00.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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**	**Fruiting 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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ Diseased and senile branches should be removed
		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.
		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	**Fruiting 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. **Replanting of new seedling** ✦ Medium to young seedling should be support by bamboo stake. ✦ Replace dead plant with young seedlings. ✦ Fertilizer dose should be maintained. **Fruiting stage** ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			SSP @ 1.5 g per 200 lt of water 15 days interval. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. - Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
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. - Use grass or straw mulch to prevent from water loss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Vegetative stage**		- Possibility of rain will be very less. So provide water every alternate day. - Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. - Weeding should to do properly with proper fertilizer use.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			day
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production. - The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. - Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. - Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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: 02 December – 06 December, 2017**

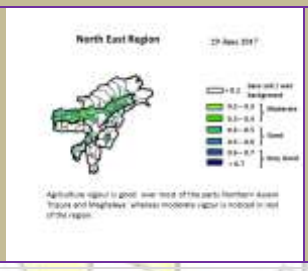
Bulletin No: - 753/2017/ Bulletin/Mizo **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	25
Min Temp (ºC)	15	15	14	14	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Mainly cloudy
Max RH (%)	80	78	81	78	75
Min RH (%)	46	43	41	38	36
Wind Speed (KmpH)	2	3	4	4	4
***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 Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	02nd December – 06th December, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):24-26ºC **Minimum Tem. (ºC):**14-16ºC **Maximum RH (%):**84-97% **Minimum RH (%):**61-78% **Wind Direction:** Northeasterly **Cloud cover:** Partially clear **Wind speed:** 2 km/hr **Rainfall:** 00.0 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 24-25ºC a ni ang a. A vawh lai ber in 14-15ºC ni tura beisei a ni. RH san lai berin 75-81% leh a hniam lai berin 36-41% 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	 Mildly dry condition occurs in all districts of Mizoram.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ 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			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Saiha **Period: 02 December – 06 December, 2017**

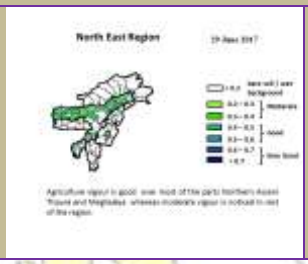
Bulletin No: - 753/2017/ Bulletin/English **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	27	27	26
Min Temp (ºC)	13	12	12	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy
Max RH (%)	75	77	80	84	84
Min RH (%)	33	26	23	30	33
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	Weather forecast valid from 02nd December, 2017 To 06thDecember, 2017.
Maximum Tem. (ºC):17-19ºC **Minimum Tem. (ºC):**15ºC **Maximum RH (%):**78-92% **Minimum RH (%):**63-76% **Wind Direction:** Northeasterly **Cloud cover:** Mainly clear **Wind speed:** 0-1 km/hr **Rainfall:** 00.0 mm	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-27ºC and 11-13ºC. Maximum relative humidity is expected in the range of 75-84% and minimum may from 26-33%. Wind direction would be easterly with the wind speed of 4 km per hour. 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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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**	**Fruiting 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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ Diseased and senile branches should be removed
		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.
		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	**Fruiting 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. **Replanting of new seedling** ✦ Medium to young seedling should be support by bamboo stake. ✦ Replace dead plant with young seedlings. ✦ Fertilizer dose should be maintained. **Fruiting stage** ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
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. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Vegetative stage**		Possibility of rain will be very less. So provide water every alternate day. Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. Weeding should to do properly with proper fertilizer use.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		Birds scaring ribbon should be used for scaring the birds. Harvest all mature panicle to reduce bird damage. Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate day
			✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field. ✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			on ridges. Provide water every alternate day.
French bean	**Germination stage**		Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m^2) Provide water every alternate day.
Potato	**Sowing stage**		Prepare the land for potato cultivation without any further delay. This may help to avoid some bacterial infection at growing stage. Land may be ploughed thoroughly for proper tillage. If land is prepared good quality of seeds may be collected for planting. Cultivation from TPS is also found profitable. Seed must be treated before sowing.
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	1. Culling of positive pigs or piglets.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Syndrome (PRRS).	
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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			↓ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		↓ Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. ↓ Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. ↓ Application of plankton inoculum from other ponds could help in development of plankton production. ↓ The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. ↓ Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. ↓ Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Saiha **Period:** 02 December – 06 December, 2017

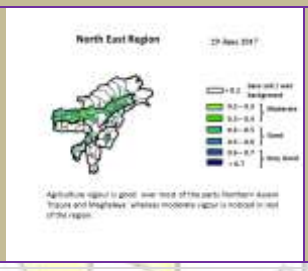
Bulletin No: - 753/2017/ Bulletin/Mizo **Date of issue:** 01st December, 2017

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	27	27	26
Min Temp (ºC)	13	12	12	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy
Max RH (%)	75	77	80	84	84
Min RH (%)	33	26	23	30	33
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	02nd December – 06th December, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC): 17-19ºC **Minimum Tem. (ºC):** 15ºC **Maximum RH (%):** 78-92% **Minimum RH (%):** 63-76% **Wind Direction:** Northeasterly **Cloud cover:** Mainly clear **Wind speed:** 0-1 km/hr **Rainfall:** 00.0 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-27ºC a ni ang a. A vawh lai ber in 11-13ºC ni tura beisei a ni. RH san lai berin of 75-84% leh a hniam lai berin 26-33% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **00.0mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ 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			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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: 02 December – 06 December, 2017**

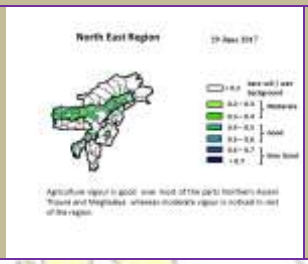
Bulletin No: - 753/2017/ Bulletin/English **Date of issue: 01st December, 2017**

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	26	26	25	25
Min Temp (ºC)	13	12	12	12	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly cloudy	Mainly cloudy
Max RH (%)	85	84	84	78	75
Min RH (%)	26	26	23	24	26
Wind Speed (KmpH)	4	4	4	4	4
***Wind Direction**	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	Weather forecast valid from 02nd December, 2017 To 06thDecember, 2017.
Maximum Tem. (ºC):18-20ºC **Minimum Tem. (ºC):**14-18ºC **Maximum RH (%):**81-94% **Minimum RH (%):**62-73% **Wind Direction:** Northeasterly **Cloud cover:** Clear sky **Wind speed:** 0 km/hr **Rainfall:** 00.0 mm	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25-26ºC and 12-13ºC. Maximum relative humidity is expected in the range of 75-85% and minimum may from 23-26%. Wind direction would be easterly with the wind speed of 4 km per hour. 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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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**	**Fruiting 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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ Diseased and senile branches should be removed
		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.
		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	**Fruiting 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. **Replanting of new seedling** ✦ Medium to young seedling should be support by bamboo stake. ✦ Replace dead plant with young seedlings. ✦ Fertilizer dose should be maintained. **Fruiting stage** ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
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. Use grass or straw mulch to prevent from water loss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Vegetative stage**		Possibility of rain will be very less. So provide water every alternate day. Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. Weeding should to do properly with proper fertilizer use.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		Birds scaring ribbon should be used for scaring the birds. Harvest all mature panicle to reduce bird damage. Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. - Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			day
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production. - The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. - Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. - Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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:** 02 December – 06 December, 2017

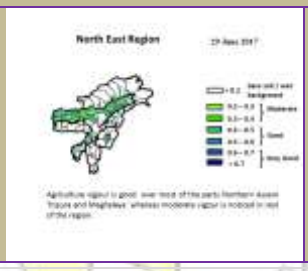
Bulletin No: - 753/2017/ Bulletin/Mizo **Date of issue:** 01st December, 2017

Parameters	02.12.2017	03.12.2017	04.12.2017	05.12.2017	06.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	26	26	25	25
Min Temp (ºC)	13	12	12	12	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly cloudy	Mainly cloudy
Max RH (%)	85	84	84	78	75
Min RH (%)	26	26	23	24	26
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	02nd December – 06th December, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC): 18-20ºC **Minimum Tem. (ºC):** 14-18ºC **Maximum RH (%):** 81-94% **Minimum RH (%):** 62-73% **Wind Direction:** Northeasterly **Cloud cover:** Clear sky **Wind speed:** 0 km/hr **Rainfall:** 00.0 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-26ºC a ni ang a. A vawh lai ber in 12-13ºC ni tura beisei a ni. RH san lai berin 75-85% leh a hniam lai berin 23-26% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **00.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			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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E-mail: kolasib.amfu@gov.in

			✦ 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			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	**Dr. Lalmuanzovi** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in