



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: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/Mizo

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	40	42	37	42	43
Max Temp (°C)	32	33	33	34	34
Min Temp (°C)	18	18	17	18	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	100	100	100
Min RH (%)	54	55	74	66	68
Wind Speed (Kmph)	0	2	2	2	2
*Wind Direction	S-E	S-W	S-W	E	S-E

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

15th August – 19th August, 2018 chhunga sik leh sa dinhmun tur tlangpui

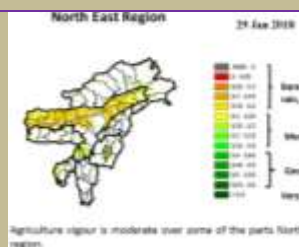
Maximum Tem. (°C):28-30°C
Minimum Tem. (°C):22-24°C
Maximum RH (%):99-100%
Minimum RH (%):71-89%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.09 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-34°C a ni ang a. A vawh lai ber in 17-19°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 54-74% ni tur a rin niin. Thli hi darkar khatah 0-2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 112.8 mm

Weekly cumulative rainfall: 204.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

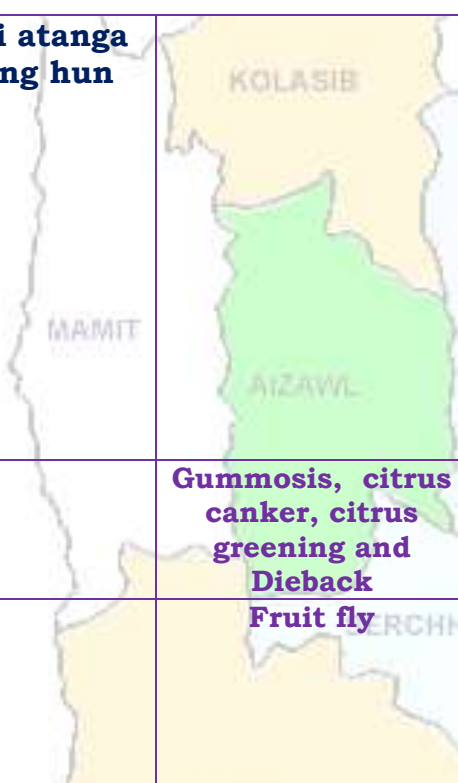



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawh a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hlih tur ani. Ni 45 hnu velah a tiak thin a, chu chu bag ah an sawn chhuak leh thin ani.



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			Harvesting Stage <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			<p>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dumrawn



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			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	<ul style="list-style-type: none"> A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.


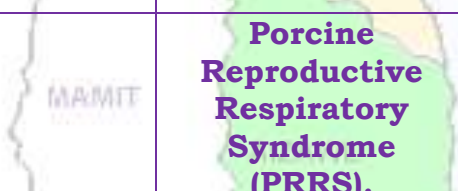
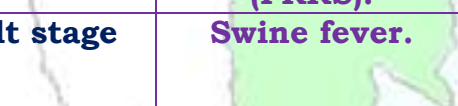






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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawh hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p> <p>1. Vawknote emaw vawh lak hran.</p>
	Adult stage		<p>Swine fever.</p> <p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.</p>
Cattle	All age group		<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawh tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawh, chaw tha an mamawh tawh leh tui thianghlim an mamawh tawh an hmu tur ani a. An hriselna atan enkawltha tha tawh tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Monitoring (Sangha enkawl)		<ul style="list-style-type: none"> Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.



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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)	ratantplantpatho@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	samuelpachua10@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	kvkhnahtial@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



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District: Lawngtlai

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/English

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	24	16	18	17	23
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	14	14	14	15	14
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	99	99
Min RH (%)	60	57	58	54	63
Wind Speed (Kmph)	2	2	2	2	2
*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.

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Maximum RH (%):98-99%
Minimum RH (%):71-88%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.18 km/hr

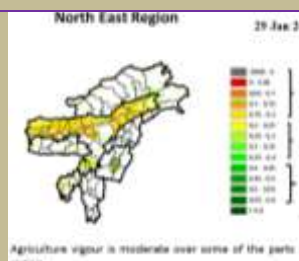
Rainfall: 64.6 mm

Weather forecast valid from 15thAugust, 2018 To 19th August, 2018.

There are chances of moderate rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 14-15°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 54-63%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 98.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.



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FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Nursery and gap filling stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. ✚ Potting mixture of soil, sand and FYM or compost should be in proper ratio. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Only certified seed should be used. ✚ Stagnation of water in beds should be avoided. ✚ In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. ✚ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> ✚ Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. ✚ Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✚ Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	Berry development stage		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the



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			<p>field properly.</p> <ul style="list-style-type: none"> Coffee should be grown as a single stem system. Pruning is required to: Supply good healthy wood for the next season's crop; maintain the correct balance between leaf area and crop; Prevent overbearing and dieback; Reduce biennial bearing; Maintain good tree shape. <p>De suckering-</p> <ul style="list-style-type: none"> De-sucker to maintain a single stem system and avoid competition from suckers Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. <p>Weeding</p> <ul style="list-style-type: none"> Weeding or basin clearing must be done for better growth and development.
Rubber	Transplanting and gap filling		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> Start planting newly established place. Weeding must be done. Apply 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. Basin clearing of all established plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be



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			<p>apply at time of planting to each pit as basal dose application.</p> <ul style="list-style-type: none"> ✚ Provide irrigation every alternate day or use straw mulch. ✚ Basin clearing of all plant. ✚ Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Flowering to fruiting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant. ✚ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✚ Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. ✚ Weeding and fertilizer application must be done. ✚ Probability of stem borer infestation will be high. Spray any systemic insecticide. ✚ Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be high



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)



			<p>and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</p> <ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
Jhum Rice	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. Earthing up soil for better growth and stability in root zone. Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>stability in root zone.</p> <ul style="list-style-type: none"> Use split dose of any nitrogenous fertilizer for better growth. Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to flowering stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
		Fruit fly	<ul style="list-style-type: none"> 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.
Cowpea	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone.



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)



			<ul style="list-style-type: none"> Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	Vegetative stage	MAMIT AIZAWL	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
ANIMAL HUSBANDRY			
Pig	All stages	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>antibiotics for five days is advised.</p> <ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ 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. <ul style="list-style-type: none"> ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✚ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		<ul style="list-style-type: none"> ✚ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>few days prior to feeding.</p> <ul style="list-style-type: none"> + Fish feed should be stored in cool and dry place to avoid mold fungal growth that releases aflatoxin which could lead to mortality of fish. + Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. + Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. + Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.
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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Guwahati)



Expert committee members:

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.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)	ratantplantpatho@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	samuelpachua10@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



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: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/Mizo

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	24	16	18	17	23
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	14	14	14	15	14
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	99	99
Min RH (%)	60	57	58	54	63
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

15th August – 19th August, 2018 chhunga sik leh sa dinhmun tur tlangpui

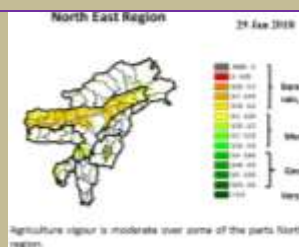
Maximum Tem. (°C):28-30°C
Minimum Tem. (°C):16-20°C
Maximum RH (%):98-99%
Minimum RH (%):71-88%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.18 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 14-15°C ni tura beisei a ni. RH san lai berin of 98-99% leh a hniam lai berin 54-63% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 64.6 mm

Weekly cumulative rainfall: 98.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

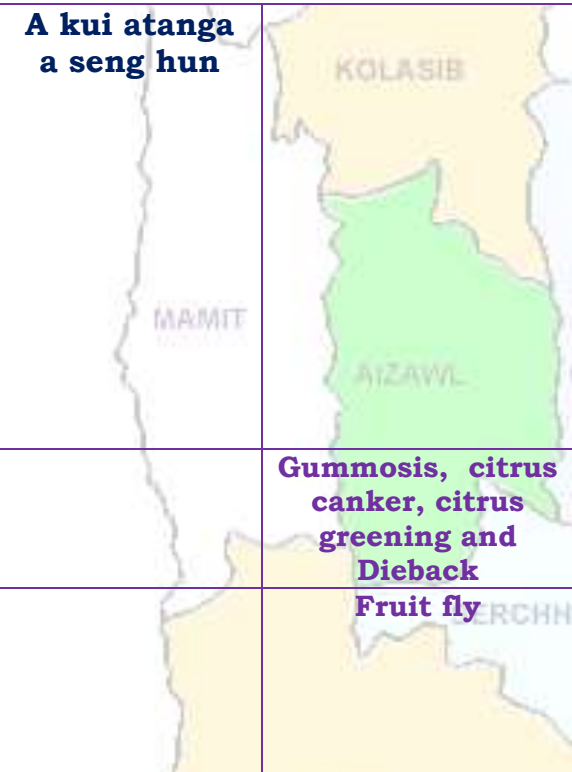



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawh a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hlih tur ani. Ni 45 hnu velah a tiak thin a, chu chu bag ah an sawn chhuak leh thin ani.



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			Harvesting Stage <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennis a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	<ul style="list-style-type: none"> 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 chhonzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	<ul style="list-style-type: none"> A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. 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.


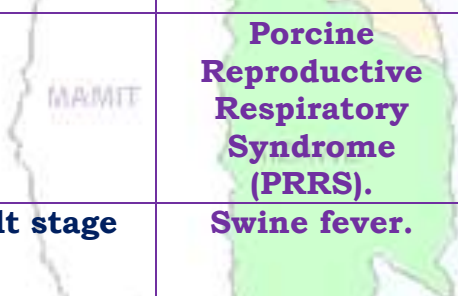

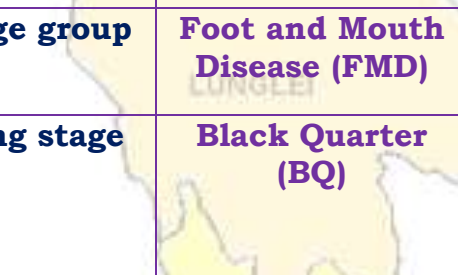

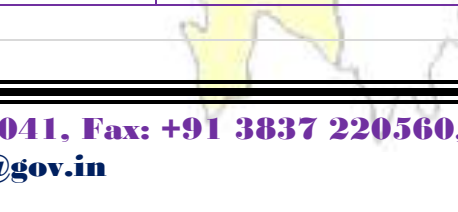


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p> <p>1. Vawknote emaw vawk lak hran.</p>
	Adult stage		<p>Swine fever.</p> <p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.</p>
Cattle	All age group		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Monitoring (Sangha enkawl)		<ul style="list-style-type: none"> Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.



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)



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)	ratantplantpatho@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	samuelpachua10@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	kvkhnahtial@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



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District: Lunglei

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/English

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	24	17	23	24	32
Max Temp (°C)	32	32	33	33	33
Min Temp (°C)	18	18	19	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	100	100	100
Min RH (%)	63	57	57	53	62
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	E	E	E	S-E

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

Maximum Tem. (°C):24-27°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):97-99%
Minimum RH (%):71-89%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.12 km/hr

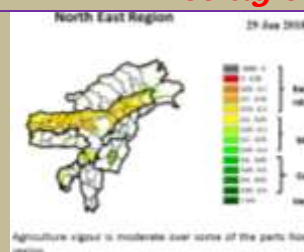
Rainfall: 74.1 mm

Weather forecast valid from 15thAugust, 2018 To 19th August, 2018.

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 18-19°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 53-63%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 120.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.




GRAMIN KRISHI MAUSAM SEWA

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Nursery and gap filling stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. ✚ Potting mixture of soil, sand and FYM or compost should be in proper ratio. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Only certified seed should be used. ✚ Stagnation of water in beds should be avoided. ✚ In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. ✚ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> ✚ Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. ✚ Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✚ Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	Berry development stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the</p>



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>field properly.</p> <ul style="list-style-type: none"> Coffee should be grown as a single stem system. Pruning is required to: Supply good healthy wood for the next season's crop; maintain the correct balance between leaf area and crop; Prevent overbearing and dieback; Reduce biennial bearing; Maintain good tree shape. <p>De suckering-</p> <ul style="list-style-type: none"> De-sucker to maintain a single stem system and avoid competition from suckers Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. <p>Weeding</p> <ul style="list-style-type: none"> Weeding or basin clearing must be done for better growth and development.
Rubber	Transplanting and gap filling		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> Start planting newly established place. Weeding must be done. Apply 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. Basin clearing of all established plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be



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			<p>apply at time of planting to each pit as basal dose application.</p> <ul style="list-style-type: none"> ✚ Provide irrigation every alternate day or use straw mulch. ✚ Basin clearing of all plant. ✚ Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Flowering to fruiting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant. ✚ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✚ Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. ✚ Weeding and fertilizer application must be done. ✚ Probability of stem borer infestation will be high. Spray any systemic insecticide. ✚ Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be high



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			<p>and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</p> <ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
Jhum Rice	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. Earthing up soil for better growth and stability in root zone. Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and



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			<p>stability in root zone.</p> <ul style="list-style-type: none"> Use split dose of any nitrogenous fertilizer for better growth. Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to flowering stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
		Fruit fly	<ul style="list-style-type: none"> 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.
Cowpea	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone.



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			<ul style="list-style-type: none"> Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	Vegetative stage	MAMIT AIZAWL	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
ANIMAL HUSBANDRY			
Pig	All stages	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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			<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> ✚ 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. <ul style="list-style-type: none"> ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✚ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		<ul style="list-style-type: none"> ✚ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for



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			<p>few days prior to feeding.</p> <ul style="list-style-type: none"> ✚ Fish feed should be stored in cool and dry place to avoid ✚ mold fungal growth that releases aflatoxin which could lead to mortality of fish. ✚ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✚ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✚ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.
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Guwahati)



Expert committee members:

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.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)	ratantplantpatho@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	samuelpachau10@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



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District: Lunglei

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/Mizo

Date of issue: 14th August, 2018

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

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Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

15th August – 19th August, 2018 chhunga sik leh sa dinhmun tur tlangpui

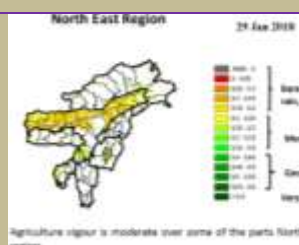
Maximum Tem. (°C):24-27°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):97-99%
Minimum RH (%):71-89%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.12 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 53-63% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 74.1 mm

Weekly cumulative rainfall: 120.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

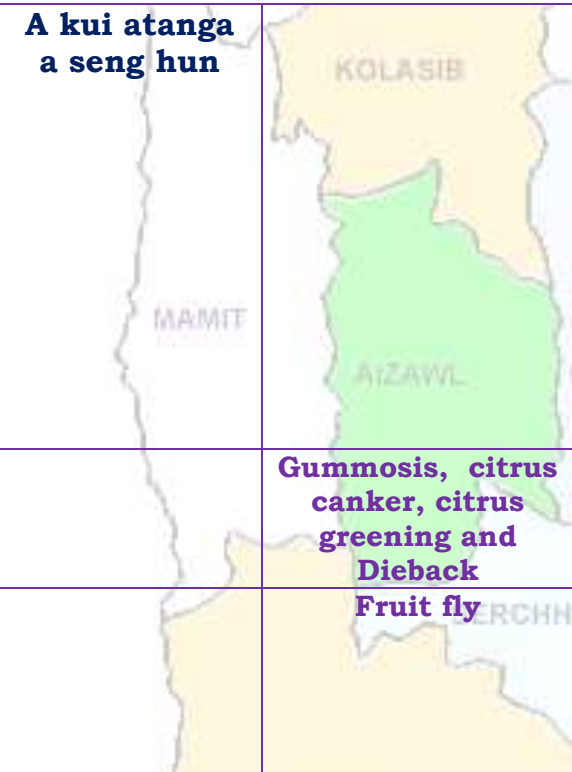



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawh a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hlih tur ani. Ni 45 hnu velah a tiak thin a, chu chu bag ah an sawn chhuak leh thin ani.



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			Harvesting Stage <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula 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



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)



			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	<ul style="list-style-type: none"> A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. 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.


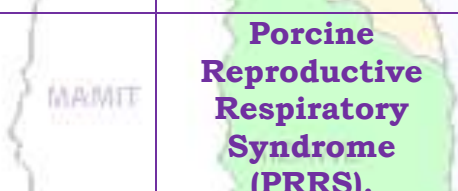
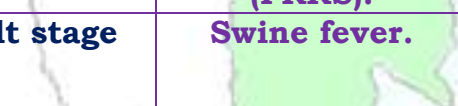






GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawh hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p> <p>1. Vawknote emaw vawh lak hran.</p>
	Adult stage		<p>Swine fever.</p> <p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.</p>
Cattle	All age group		<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawh tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawh, chaw tha an mamawh tawh leh tui thianghlim an mamawh tawh an hmu tur ani a. An hriselna atan enkawltha tha tawh tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Monitoring (Sangha enkawl)		<ul style="list-style-type: none"> Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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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)	ratantplantpatho@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	samuelpachua10@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	kvkchawzawl@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



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: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/English

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	11	13	17	13	24
Max Temp (°C)	34	33	34	34	34
Min Temp (°C)	18	17	18	19	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	99	100	100
Min RH (%)	53	50	68	57	57
Wind Speed (Kmph)	3	3	3	3	2
*Wind Direction	S	S	S	S-E	S

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 15 th August, 2018 To 19 th August, 2018.
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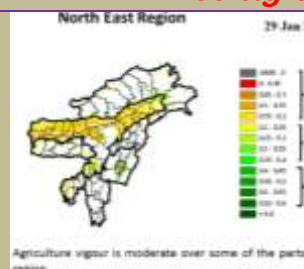
Maximum Tem. (°C):29-30°C
Minimum Tem. (°C):17-20°C
Maximum RH (%):98-100%
Minimum RH (%):66-87%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.29 km/hr

Rainfall: 102.5 mm

There are chances of moderate rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 17-19°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 57-68%. Wind direction would be southerly to southeasterly and southerly with the wind speed of 2-3 km per hour. Manly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 78.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.




GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Nursery and gap filling stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. ✚ Potting mixture of soil, sand and FYM or compost should be in proper ratio. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Only certified seed should be used. ✚ Stagnation of water in beds should be avoided. ✚ In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. ✚ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> ✚ Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. ✚ Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✚ Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	Berry development stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the</p>



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>field properly.</p> <ul style="list-style-type: none"> ☛ Coffee should be grown as a single stem system. Pruning is required to: ☛ Supply good healthy wood for the next season's crop; ☛ maintain the correct balance between leaf area and crop; ☛ Prevent overbearing and dieback; ☛ Reduce biennial bearing; ☛ Maintain good tree shape. <p>De suckering-</p> <ul style="list-style-type: none"> ☛ De-sucker to maintain a single stem system and avoid competition from suckers ☛ Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. <p>Weeding</p> <ul style="list-style-type: none"> ☛ Weeding or basin clearing must be done for better growth and development.
Rubber	Transplanting and gap filling		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ☛ Start planting newly established place. ☛ Weeding must be done. ☛ Apply 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. ☛ Basin clearing of all established plant. ☛ Rain cap can use for tapping plant ☛ Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ☛ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>apply at time of planting to each pit as basal dose application.</p> <ul style="list-style-type: none"> ✚ Provide irrigation every alternate day or use straw mulch. ✚ Basin clearing of all plant. ✚ Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Flowering to fruiting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant. ✚ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✚ Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. ✚ Weeding and fertilizer application must be done. ✚ Probability of stem borer infestation will be high. Spray any systemic insecticide. ✚ Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be high



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</p> <ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
Jhum Rice	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. Earthing up soil for better growth and stability in root zone. Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>stability in root zone.</p> <ul style="list-style-type: none"> Use split dose of any nitrogenous fertilizer for better growth. Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to flowering stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
		Fruit fly	<ul style="list-style-type: none"> 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.
Cowpea	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	Vegetative stage	MAMIT AIZAWL	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
ANIMAL HUSBANDRY			
Pig	All stages	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> ✚ 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. <ul style="list-style-type: none"> ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✚ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		<ul style="list-style-type: none"> ✚ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>few days prior to feeding.</p> <ul style="list-style-type: none"> + Fish feed should be stored in cool and dry place to avoid + mold fungal growth that releases aflatoxin which could lead to mortality of fish. + Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. + Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. + Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.
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Expert committee members:

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.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)	ratantplantpatho@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	samuelpachua10@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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/Mizo

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	11	13	17	13	24
Max Temp (°C)	34	33	34	34	34
Min Temp (°C)	18	17	18	19	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	99	100	100
Min RH (%)	53	50	68	57	57
Wind Speed (Kmph)	3	3	3	3	2
*Wind Direction	S	S	S	S-E	S

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

15th August – 19th August, 2018 chhunga sik leh sa dinhmun tur tlangpui

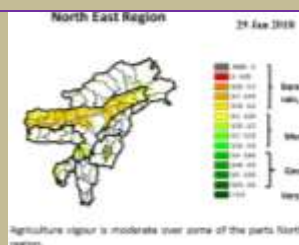
Maximum Tem. (°C):29-30°C
Minimum Tem. (°C):17-20°C
Maximum RH (%):98-100%
Minimum RH (%):66-87%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.29 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 17-19°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 57-68% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 102.5 mm

Weekly cumulative rainfall: 78.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

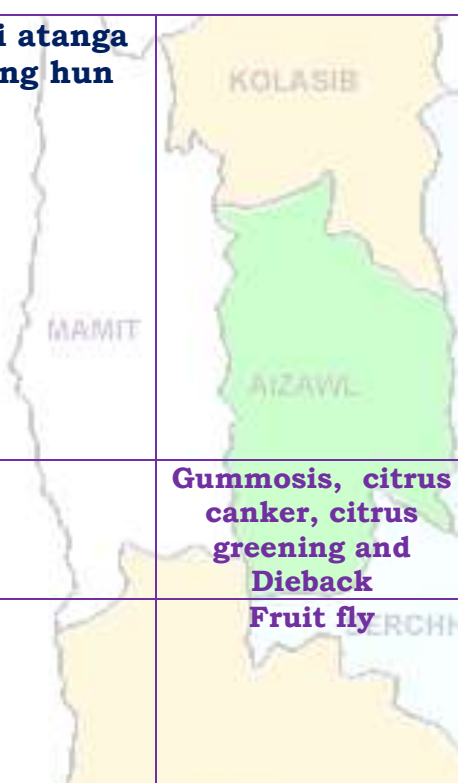



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawh a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hlih tur ani. Ni 45 hnu velah a tiak thin a, chu chu bag ah an sawn chhuak leh thin ani.



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			Harvesting Stage <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennis a rah thlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	<ul style="list-style-type: none"> 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 chhonzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			<p>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dumrawn



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			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	<ul style="list-style-type: none"> A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.


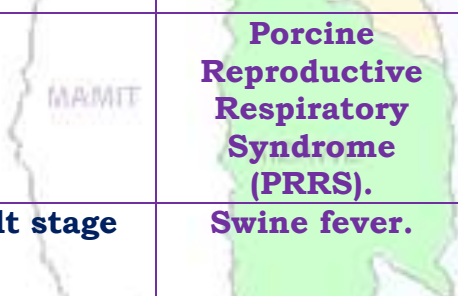






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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawh hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p> <p>1. Vawknote emaw vawh lak hran.</p>
	Adult stage		<p>Swine fever.</p> <p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.</p>
Cattle	All age group		<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawh tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawh, chaw tha an mamawh tawh leh tui thianghlim an mamawh tawh an hmu tur ani a. An hriselna atan enkawltha tha tawh tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Monitoring (Sangha enkawl)		<ul style="list-style-type: none"> Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.



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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)	ratantplantpatho@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	samuelpachua10@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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/English

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	10	10	16	24	25
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	16	16	15	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	100	100	100
Min RH (%)	75	62	60	58	66
Wind Speed (Kmph)	3	4	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
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Weather summary of the past three days	Weather forecast valid from 15 th August, 2018 To 19 th August, 2018.
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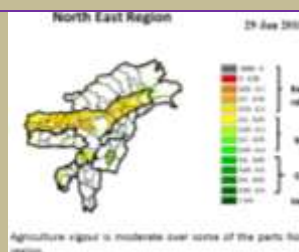
Maximum Tem. (°C):26-28°C
Minimum Tem. (°C):17-19°C
Maximum RH (%):98-99%
Minimum RH (%):69-84%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.64 km/hr

Rainfall: 75.1 mm

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 15-16°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 58-75%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 85.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.




GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Nursery and gap filling stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. ✚ Potting mixture of soil, sand and FYM or compost should be in proper ratio. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Only certified seed should be used. ✚ Stagnation of water in beds should be avoided. ✚ In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. ✚ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> ✚ Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. ✚ Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✚ Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	Berry development stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the</p>



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			<p>field properly.</p> <ul style="list-style-type: none"> Coffee should be grown as a single stem system. Pruning is required to: Supply good healthy wood for the next season's crop; maintain the correct balance between leaf area and crop; Prevent overbearing and dieback; Reduce biennial bearing; Maintain good tree shape. <p>De suckering-</p> <ul style="list-style-type: none"> De-sucker to maintain a single stem system and avoid competition from suckers Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. <p>Weeding</p> <ul style="list-style-type: none"> Weeding or basin clearing must be done for better growth and development.
Rubber	Transplanting and gap filling		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> Start planting newly established place. Weeding must be done. Apply 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. Basin clearing of all established plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be



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			<p>apply at time of planting to each pit as basal dose application.</p> <ul style="list-style-type: none"> ✚ Provide irrigation every alternate day or use straw mulch. ✚ Basin clearing of all plant. ✚ Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Flowering to fruiting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant. ✚ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✚ Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. ✚ Weeding and fertilizer application must be done. ✚ Probability of stem borer infestation will be high. Spray any systemic insecticide. ✚ Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be high



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			<p>and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</p> <ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
Jhum Rice	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. Earthing up soil for better growth and stability in root zone. Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and



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			<p>stability in root zone.</p> <ul style="list-style-type: none"> Use split dose of any nitrogenous fertilizer for better growth. Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to flowering stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
		Fruit fly	<ul style="list-style-type: none"> 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.
Cowpea	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone.



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			<ul style="list-style-type: none"> Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	Vegetative stage	MAMIT AIZAWL	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
ANIMAL HUSBANDRY			
Pig	All stages	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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			<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> ✚ 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. <ul style="list-style-type: none"> ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✚ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		<ul style="list-style-type: none"> ✚ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for



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			<p>few days prior to feeding.</p> <ul style="list-style-type: none"> ✚ Fish feed should be stored in cool and dry place to avoid ✚ mold fungal growth that releases aflatoxin which could lead to mortality of fish. ✚ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✚ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✚ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.
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Expert committee members:

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.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)	ratantplantpatho@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	samuelpachau10@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



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District: Saiha

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/Mizo

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	10	10	16	24	25
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	16	16	15	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	100	100	100
Min RH (%)	75	62	60	58	66
Wind Speed (Kmph)	3	4	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

15th August – 19th August, 2018 chhunga sik leh sa dinhmun tur tlangpui

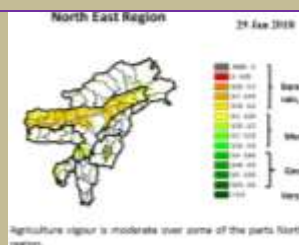
Maximum Tem. (°C):26-28°C
Minimum Tem. (°C):17-19°C
Maximum RH (%):98-99%
Minimum RH (%):69-84%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.64 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 15-16°C ni tura beisei a ni. RH san lai berin of 99-100% leh a hniam lai berin 58-75% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 75.1 mm

Weekly cumulative rainfall: 85.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

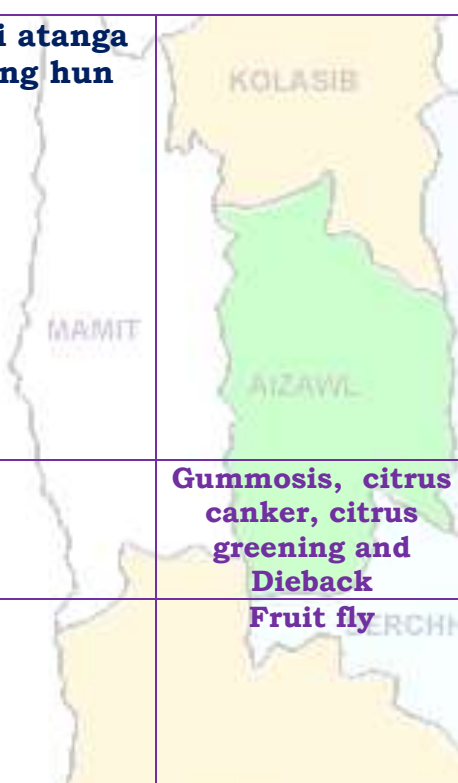



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawh a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hlih tur ani. Ni 45 hnu velah a tiak thin a, chu chu bag ah an sawn chhuak leh thin ani.



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			Harvesting Stage <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennis a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	<ul style="list-style-type: none"> 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 chhonzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			<p>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	<ul style="list-style-type: none"> A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. 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.


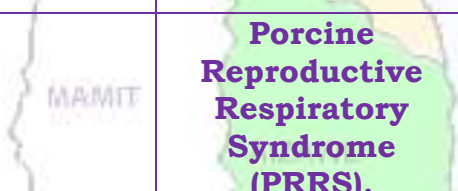
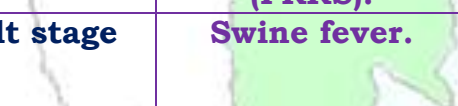






GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawh hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p> <p>1. Vawknote emaw vawh lak hran.</p>
	Adult stage		<p>Swine fever.</p> <p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.</p>
Cattle	All age group		<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawh tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawh, chaw tha an mamawh tawh leh tui thianghlim an mamawh tawh an hmu tur ani a. An hriselna atan enkawltha tha tawh tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Monitoring (Sangha enkawl)		<ul style="list-style-type: none"> Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.



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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)	ratantplantpatho@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	samuelpachua10@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



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District: Serchhip

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/English

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	20	11	14	12	25
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	14	14	14	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	70	61	65	59	67
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S	E	S-E	S-E	S

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 15 th August, 2018 To 19 th August, 2018.
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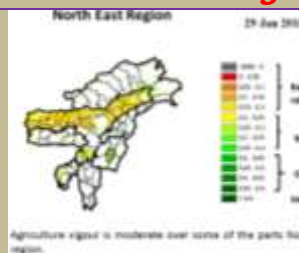
Maximum Tem. (°C):25-28°C
Minimum Tem. (°C):17-19°C
Maximum RH (%):99-100%
Minimum RH (%):75-86%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.25 km/hr

Rainfall: 82.8 mm

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 14-15°C. Maximum relative humidity is expected in the range of 100% and minimum may from 59-70%. Wind direction would be easterly to southeasterly and southerly with the in speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 82.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.




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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Nursery and gap filling stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. ✚ Potting mixture of soil, sand and FYM or compost should be in proper ratio. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Only certified seed should be used. ✚ Stagnation of water in beds should be avoided. ✚ In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. ✚ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> ✚ Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. ✚ Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✚ Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	Berry development stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the</p>



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			<p>field properly.</p> <ul style="list-style-type: none"> Coffee should be grown as a single stem system. Pruning is required to: Supply good healthy wood for the next season's crop; maintain the correct balance between leaf area and crop; Prevent overbearing and dieback; Reduce biennial bearing; Maintain good tree shape. <p>De suckering-</p> <ul style="list-style-type: none"> De-sucker to maintain a single stem system and avoid competition from suckers Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. <p>Weeding</p> <ul style="list-style-type: none"> Weeding or basin clearing must be done for better growth and development.
Rubber	Transplanting and gap filling		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> Start planting newly established place. Weeding must be done. Apply 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. Basin clearing of all established plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be



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			<p>apply at time of planting to each pit as basal dose application.</p> <ul style="list-style-type: none"> ✚ Provide irrigation every alternate day or use straw mulch. ✚ Basin clearing of all plant. ✚ Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Flowering to fruiting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant. ✚ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✚ Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. ✚ Weeding and fertilizer application must be done. ✚ Probability of stem borer infestation will be high. Spray any systemic insecticide. ✚ Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be high



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			<p>and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</p> <ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
Jhum Rice	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. Earthing up soil for better growth and stability in root zone. Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and



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			<p>stability in root zone.</p> <ul style="list-style-type: none"> Use split dose of any nitrogenous fertilizer for better growth. Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to flowering stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
		Fruit fly	<ul style="list-style-type: none"> 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.
Cowpea	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone.



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			<ul style="list-style-type: none"> Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	Vegetative stage	MAMIT AIZAWL	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
ANIMAL HUSBANDRY			
Pig	All stages	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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			<p>antibiotics for five days is advised.</p> <ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ 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. <ul style="list-style-type: none"> ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✚ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		<ul style="list-style-type: none"> ✚ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for



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			<p>few days prior to feeding.</p> <ul style="list-style-type: none"> ✚ Fish feed should be stored in cool and dry place to avoid mold fungal growth that releases aflatoxin which could lead to mortality of fish. ✚ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✚ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✚ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.
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Guwahati)



Expert committee members:

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.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)	ratantplantpatho@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	samuelpachau10@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



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Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/Mizo

Date of issue: 14th August, 2018

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STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

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Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

15th August – 19th August, 2018 chhunga sik leh sa dinhmun tur tlangpui

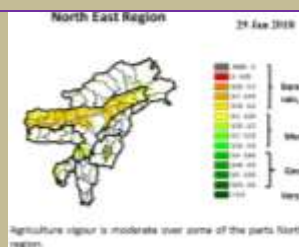
Maximum Tem. (°C):25-28°C
Minimum Tem. (°C):17-19°C
Maximum RH (%):99-100%
Minimum RH (%):75-86%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.25 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 14-15°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 59-70% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 82.8 mm

Weekly cumulative rainfall: 82.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

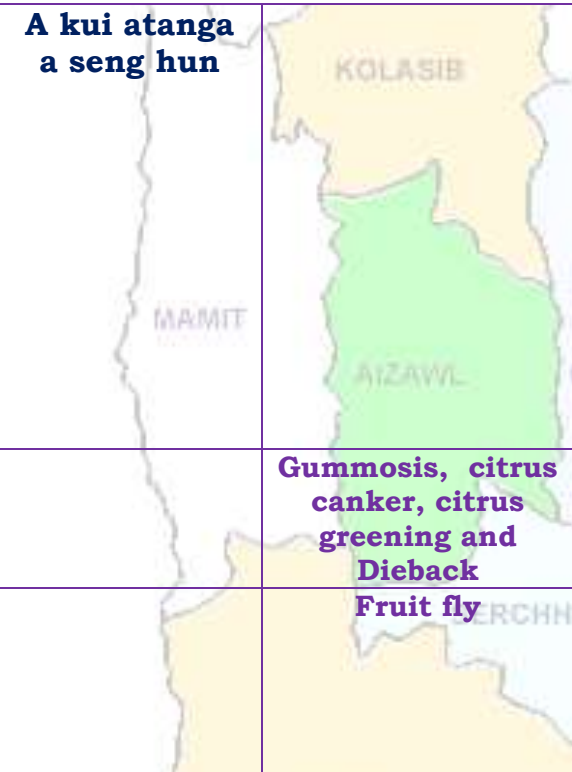



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawh a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hlih tur ani. Ni 45 hnu velah a tiak thin a, chu chu bag ah an sawn chhuak leh thin ani.



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			Harvesting Stage <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennis a rah thlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	<ul style="list-style-type: none"> 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 chhonzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	<ul style="list-style-type: none"> A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. 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.


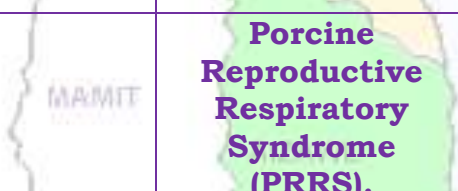
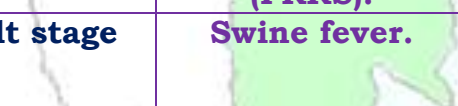






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Mizoram Centre, Kolasib- 796081, MIZORAM

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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawh hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p> <p>1. Vawknote emaw vawh lak hran.</p>
	Adult stage		<p>Swine fever.</p> <p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.</p>
Cattle	All age group		<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawh tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawh, chaw tha an mamawh tawh leh tui thianghlim an mamawh tawh an hmu tur ani a. An hriselna atan enkawltha tha tawh tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Monitoring (Sangha enkawl)		<ul style="list-style-type: none"> Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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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)	ratantplantpatho@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	samuelpachua10@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	kvkhnahtial@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



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Aizawl

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/English

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	27	30	33	22	33
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	14	14	14	15	14
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	60	58	73	67	75
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-W	S	S-W	S-E	S

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

Maximum Tem. (°C):29-30°C
Minimum Tem. (°C):17-19°C
Maximum RH (%):91-96%
Minimum RH (%):72-85%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.24 km/hr

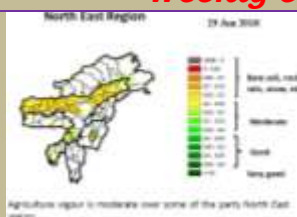
Rainfall: 78.2 mm

Weather forecast valid from 15thAugust, 2018 To 19th August, 2018.

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 14-15°C. Maximum relative humidity is expected in the range of 100% and minimum may from 58-75%. Wind direction would be southwesterly to southerly to southwesterly to southeasterly and southerly with the wind speed of 2 km per hour. Manly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 145.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.





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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Nursery and gap filling stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. ✚ Potting mixture of soil, sand and FYM or compost should be in proper ratio. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Only certified seed should be used. ✚ Stagnation of water in beds should be avoided. ✚ In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. ✚ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> ✚ Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. ✚ Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✚ Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	Berry development stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the</p>



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			<p>field properly.</p> <ul style="list-style-type: none"> Coffee should be grown as a single stem system. Pruning is required to: Supply good healthy wood for the next season's crop; maintain the correct balance between leaf area and crop; Prevent overbearing and dieback; Reduce biennial bearing; Maintain good tree shape. <p>De suckering-</p> <ul style="list-style-type: none"> De-sucker to maintain a single stem system and avoid competition from suckers Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. <p>Weeding</p> <ul style="list-style-type: none"> Weeding or basin clearing must be done for better growth and development.
Rubber	Transplanting and gap filling		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> Start planting newly established place. Weeding must be done. Apply 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. Basin clearing of all established plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>apply at time of planting to each pit as basal dose application.</p> <ul style="list-style-type: none"> ✚ Provide irrigation every alternate day or use straw mulch. ✚ Basin clearing of all plant. ✚ Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Flowering to fruiting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant. ✚ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✚ Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. ✚ Weeding and fertilizer application must be done. ✚ Probability of stem borer infestation will be high. Spray any systemic insecticide. ✚ Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be high



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</p> <ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
Jhum Rice	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. Earthing up soil for better growth and stability in root zone. Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>stability in root zone.</p> <ul style="list-style-type: none"> Use split dose of any nitrogenous fertilizer for better growth. Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to flowering stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
		Fruit fly	<ul style="list-style-type: none"> 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.
Cowpea	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone.



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)



			<ul style="list-style-type: none"> Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	Vegetative stage	MAMIT AIZAWL	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
ANIMAL HUSBANDRY			
Pig	All stages	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> ✚ 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. <ul style="list-style-type: none"> ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✚ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		<ul style="list-style-type: none"> ✚ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for



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)



			<p>few days prior to feeding.</p> <ul style="list-style-type: none"> ✚ Fish feed should be stored in cool and dry place to avoid ✚ mold fungal growth that releases aflatoxin which could lead to mortality of fish. ✚ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✚ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✚ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.
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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Expert committee members:

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.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)	ratantplantpatho@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	samuelpachau10@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	kvkhnahtial@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



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Aizawl

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/Mizo

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	27	30	33	22	33
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	14	14	14	15	14
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	60	58	73	67	75
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-W	S	S-W	S-E	S

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

15th August – 19th August, 2018 chhunga sik leh sa dinhmun tur tlangpui

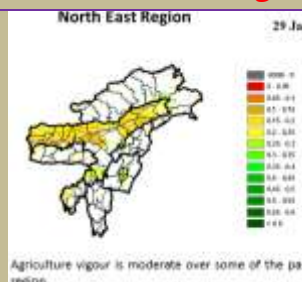
Maximum Tem. (°C):29-30°C
Minimum Tem. (°C):17-19°C
Maximum RH (%):91-96%
Minimum RH (%):72-85%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.24 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 14-15°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 58-75% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 78.2 mm

Weekly cumulative rainfall: 145.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

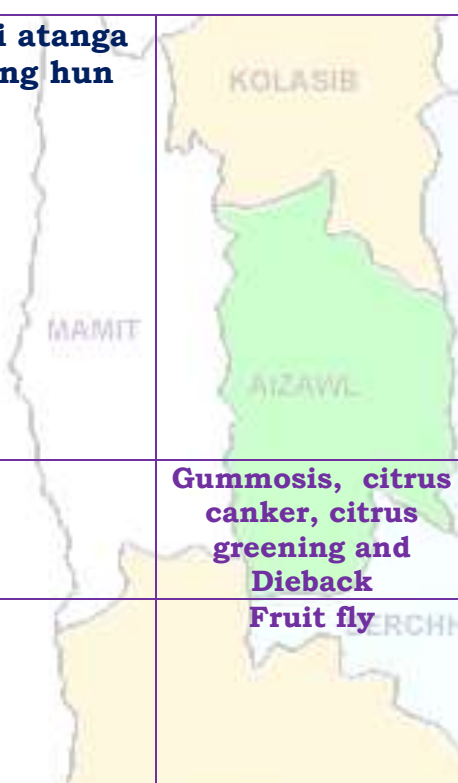



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawh a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hlih tur ani. Ni 45 hnu velah a tiak thin a, chu chu bag ah an sawn chhuak leh thin ani.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Harvesting Stage <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennis a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	<ul style="list-style-type: none"> 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 chhonzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dumrawn



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			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	<ul style="list-style-type: none"> A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. 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.


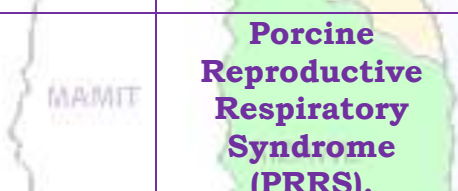
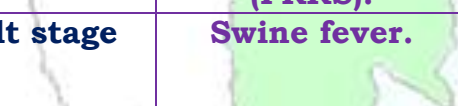






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Mizoram Centre, Kolasib- 796081, MIZORAM

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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawh hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p> <p>1. Vawknote emaw vawh lak hran.</p>
	Adult stage		<p>Swine fever.</p> <p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.</p>
Cattle	All age group		<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawh tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawh, chaw tha an mamawh tawh leh tui thianghlim an mamawh tawh an hmu tur ani a. An hriselna atan enkawltha tha tawh tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Monitoring (Sangha enkawl)		<ul style="list-style-type: none"> Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.



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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)	ratantplantpatho@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	samuelpachua10@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	kvkhnahtial@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



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: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/English

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	25	6	25	12	48
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	14	14	14	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	75	72	71	75	76
Wind Speed (Kmph)	2	2	2	2	0
*Wind Direction	S-W	S	S	S-E	S-W

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

Maximum Tem. (°C):27-30°C
Minimum Tem. (°C):18-20°C
Maximum RH (%):97-100%
Minimum RH (%):73-92%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.24 km/hr

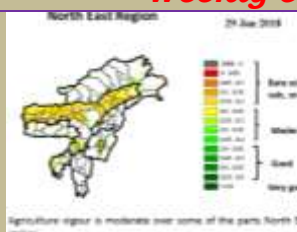
Rainfall: 82.3 mm

Weather forecast valid from 15thAugust, 2018 To 19th August, 2018.

There are chances of moderate to light and heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 14-15°C. Maximum relative humidity is expected in the range of 100% and minimum may from 71-76%. Wind direction would be southwesterly to southerly to southeasterly and southwesterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 116.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Nursery and gap filling stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. ✚ Potting mixture of soil, sand and FYM or compost should be in proper ratio. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Only certified seed should be used. ✚ Stagnation of water in beds should be avoided. ✚ In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. ✚ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> ✚ Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. ✚ Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✚ Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	Berry development stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the</p>



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			<p>field properly.</p> <ul style="list-style-type: none"> Coffee should be grown as a single stem system. Pruning is required to: Supply good healthy wood for the next season's crop; maintain the correct balance between leaf area and crop; Prevent overbearing and dieback; Reduce biennial bearing; Maintain good tree shape. <p>De suckering-</p> <ul style="list-style-type: none"> De-sucker to maintain a single stem system and avoid competition from suckers Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. <p>Weeding</p> <ul style="list-style-type: none"> Weeding or basin clearing must be done for better growth and development.
Rubber	Transplanting and gap filling		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> Start planting newly established place. Weeding must be done. Apply 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. Basin clearing of all established plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be



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			<p>apply at time of planting to each pit as basal dose application.</p> <ul style="list-style-type: none"> ✚ Provide irrigation every alternate day or use straw mulch. ✚ Basin clearing of all plant. ✚ Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Flowering to fruiting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant. ✚ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✚ Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. ✚ Weeding and fertilizer application must be done. ✚ Probability of stem borer infestation will be high. Spray any systemic insecticide. ✚ Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be high



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			<p>and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</p> <ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
Jhum Rice	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. Earthing up soil for better growth and stability in root zone. Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and



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			<p>stability in root zone.</p> <ul style="list-style-type: none"> Use split dose of any nitrogenous fertilizer for better growth. Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to flowering stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
		Fruit fly	<ul style="list-style-type: none"> 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.
Cowpea	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone.



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			<ul style="list-style-type: none"> Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	Vegetative stage	MAMIT AIZAWL	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
ANIMAL HUSBANDRY			
Pig	All stages	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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			<p>antibiotics for five days is advised.</p> <ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ 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. <ul style="list-style-type: none"> ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✚ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		<ul style="list-style-type: none"> ✚ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for



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		<p>few days prior to feeding.</p> <ul style="list-style-type: none"> ✚ Fish feed should be stored in cool and dry place to avoid ✚ mold fungal growth that releases aflatoxin which could lead to mortality of fish. ✚ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ✚ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. ✚ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.
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Expert committee members:

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.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)	ratantplantpatho@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	samuelpachau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
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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	kvkhnahtial@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



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District: Champhai

Period: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/Mizo

Date of issue: 14th August, 2018

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STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

15th August – 19th August, 2018 chhunga sik leh sa dinhmun tur tlangpui

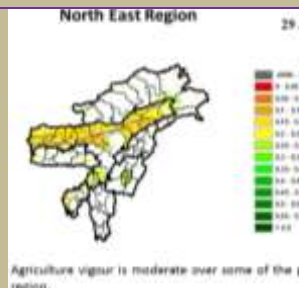
Maximum Tem. (°C):27-30°C
Minimum Tem. (°C):18-20°C
Maximum RH (%):97-100%
Minimum RH (%):73-92%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.24 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 14-15°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 71-76% ni tur a rin niin. Thli hi darkar khatah 0-2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 82.3 mm

Weekly cumulative rainfall: 116.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

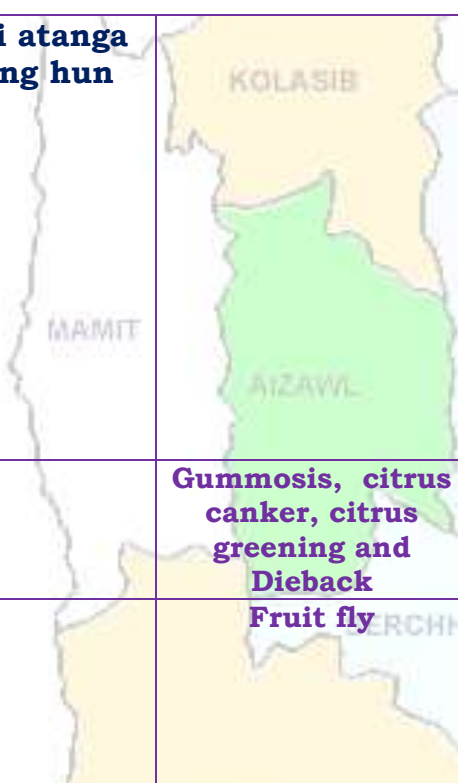



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawh a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hlih tur ani. Ni 45 hnu velah a tiak thin a, chu chu bag ah an sawn chhuak leh thin ani.



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			Harvesting Stage <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennis a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	<ul style="list-style-type: none"> 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 chhonzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dumrawn



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	<ul style="list-style-type: none"> A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. 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.


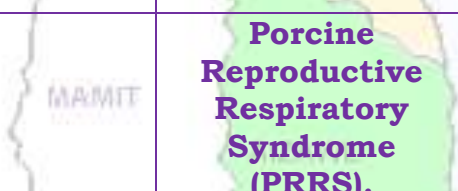
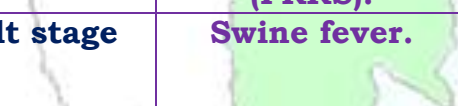






GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawh hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p> <p>1. Vawknote emaw vawh lak hran.</p>
	Adult stage		<p>Swine fever.</p> <p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.</p>
Cattle	All age group		<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawh tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawh, chaw tha an mamawh tawh leh tui thianghlim an mamawh tawh an hmu tur ani a. An hriselna atan enkawltha tha tawh tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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)



			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Monitoring (Sangha enkawl)		<ul style="list-style-type: none"> Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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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)	ratantplantpatho@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	samuelpachua10@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	kvkchawzawl@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



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: 15 August – 19 August, 2018

Bulletin No: - 816/2018/ Bulletin/English

Date of issue: 14th August, 2018

Parameters	15.08.2018	16.08.2018	17.08.2018	18.08.2018	19.08.2018
Rainfall (mm)	40	42	37	42	43
Max Temp (°C)	32	33	33	34	34
Min Temp (°C)	18	18	17	18	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	100	100	100
Min RH (%)	54	55	74	66	68
Wind Speed (Kmph)	0	2	2	2	2
*Wind Direction	S-E	S-W	S-W	E	S-E

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

Maximum Tem. (°C):28-30°C
Minimum Tem. (°C):22-24°C
Maximum RH (%):99-100%
Minimum RH (%):71-89%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.09 km/hr

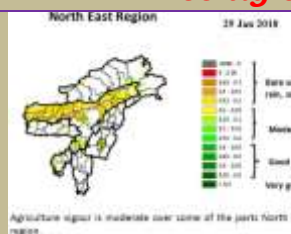
Rainfall: 112.8 mm

Weather forecast valid from 15thAugust, 2018 To 19th August, 2018.

There are chances of heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-34°C and 17-19°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 54-74%. Wind direction would be southeasterly to southwesterly to easterly and southeasterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 204.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Animal / Fisheries		practices/ Pest/ Diseases	husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Nursery and gap filling stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. ✚ Potting mixture of soil, sand and FYM or compost should be in proper ratio. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Only certified seed should be used. ✚ Stagnation of water in beds should be avoided. ✚ In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. ✚ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
STAR FRUIT			
PLUM AND PEACH			
		<p>Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor</p>	<ul style="list-style-type: none"> ✚ Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. ✚ Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ✚ Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	Berry development stage		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p>



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)



			<ul style="list-style-type: none"> Coffee should be grown as a single stem system. Pruning is required to: Supply good healthy wood for the next season's crop; maintain the correct balance between leaf area and crop; Prevent overbearing and dieback; Reduce biennial bearing; Maintain good tree shape. <p>De suckering-</p> <ul style="list-style-type: none"> De-sucker to maintain a single stem system and avoid competition from suckers Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. <p>Weeding</p> <ul style="list-style-type: none"> Weeding or basin clearing must be done for better growth and development.
Rubber	Transplanting and gap filling		<p>According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> Start planting newly established place. Weeding must be done. Apply 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. Basin clearing of all established plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>basal dose application.</p> <ul style="list-style-type: none"> ✚ Provide irrigation every alternate day or use straw mulch. ✚ Basin clearing of all plant. ✚ Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Flowering to fruiting stage		<p>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</p> <ul style="list-style-type: none"> ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant. ✚ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✚ Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. ✚ Weeding and fertilizer application must be done. ✚ Probability of stem borer infestation will be high. Spray any systemic insecticide. ✚ Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</p> <ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
Jhum Rice	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. Earthing up soil for better growth and stability in root zone. Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone.



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> Use split dose of any nitrogenous fertilizer for better growth. Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to flowering stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Harvest all the produces and keep seed for next season 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 against fruit fly and pumpkin beetle.
		Fruit fly	<ul style="list-style-type: none"> 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.
Cowpea	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	Vegetative stage	MAMIT AIZAWL	<ul style="list-style-type: none"> According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. Earthing up soil for better growth and stability in root zone. Apply use split dose of any nitrogenous fertilizer for better growth.
ANIMAL HUSBANDRY			
Pig	All stages	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ 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. <ul style="list-style-type: none"> ➤ Day old chick: HVT Marek disease vaccine, 4-7 days:– F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ✚ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		<ul style="list-style-type: none"> ✚ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

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			<ul style="list-style-type: none"> Fish feed should be stored in cool and dry place to avoid oid fungal growth that releases aflatoxin which could lead to mortality of fish. Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.
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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.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)	ratantplantpatho@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	samuelpachua10@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	kvkhnahtial@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