



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei

Period: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/English

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	5	4	3	9	0
Max Temp (°C)	32	32	32	32	31
Min Temp (°C)	20	20	20	21	20
Cloud Coverage	Partially clear	Mainly clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	95	96	97	96
Min RH (%)	73	74	75	76	71
Wind Speed (Kmph)	2	2	2	2	4
*Wind Direction	S-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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

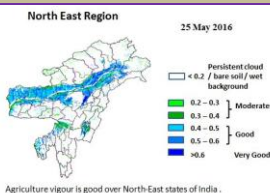
The temperature range for maximum and minimum were 28.3-29.2°C and 19.5-20.1°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 95-99% & minimum of 57-96%. Rainfall recorded for the past three days is **19.30mm.** (Source-NICRA, AWS)

Weather forecast valid from 08th June, 2016 To 12th June, 2016.

There are chances of light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 31-32°C and 20-21°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 71-76%. Wind direction would be southeasterly to easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 21.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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
Khasi Mandarin and acid lime	Nursery stage		✚ 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. ✚ 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. ✚ Seedling of uniform height should be selected for planting. ✚ Hooked or bench rooted plants should be discarded. ✚ Plant protection measures should be followed.
Oil plam	Vegetative stage		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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)



		KOLASIB	- Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		MAMIT AIZAWL CHAMPAL	Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	Comb weevil and stem weevil SERCHHIP LUNGLEI	- High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. - A cutting should contain at least 3 buds and must be planted in sand beds. - Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: - The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	- Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. - The flowering emergence will come out after 55-60 days after chemical spraying. - Apply split doses of fertilizer @ 60: 50:60 g per plant. - Remove all unwanted leaves, branches and



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)



Colocasia	Vegetative stage	KOLASIB	weed near to the plant. - Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	AIZAWL	- 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. - Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre emergence application of Basalin



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)



		KOLASIB	@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage	MAMIT AIZAWL SERCHHIP LUNGLEI	- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage	LAWNGTLAI SAIHA	- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		Remove unwanted plant near base of the

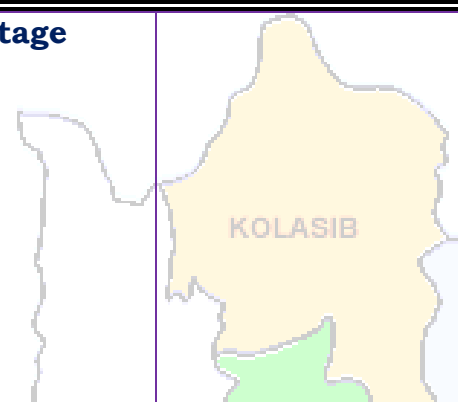
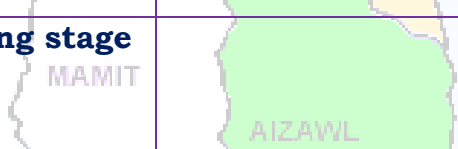


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



turmeric	stage		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei

Period: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/Mizo

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	5	4	3	9	0
Max Temp (oC)	32	32	32	32	31
Min Temp (oC)	20	20	20	21	20
Cloud Coverage	Partially clear	Mainly clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	95	96	97	96
Min RH (%)	73	74	75	76	71
Wind Speed (Kmph)	2	2	2	2	4
*Wind Direction	S-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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

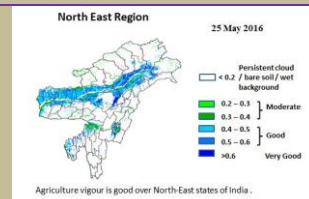
Khua a lum lai berin 28.3-29.2^oC leh a vawh lai berin 19.5-20.1^oC ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 95-99% leh a hniam lai 57-96% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **19.30mm** ani. (Source- NICRA, AWS)

June 04, 2016 atanga June 08, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-32^oC a ni ang a. A vawh lai ber in 20-21^oC ni tur ah beisei a ni. RH san lai berin 95-98% leh a hniam lai berin 71-76% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 21.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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)



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
Oil palm	A than lai/a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih 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)



Balhla	A than lai/ a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. - Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
Lakhuihthei	A than lai		- Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. - Lakhuihthei kung chu thal lai ni 20-25 inkar ah tui vawi 5/6 pek tur. - Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. - Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
Lakhuihthei	A par lai		- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah 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)



			ang. ✚ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ✚ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai	KOLASIB MAMIT AIZAWL CHAMPAI	✚ Ni 7 danah tui chu tha taka pek tur. ✚ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ✚ Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur. SERCHHIP	✚ A kung bulthut ah hnim chheh darh tur. ✚ A khat tawkin tui pek tur. ✚ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai	LUNGLEI	✚ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan	LAWNGTLAI SAIHA	✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).



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)



			Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - Nitrogen leitha chu an mamawh



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)



		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales KOLASIB	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun MAMIT	Swine fever. AIZAWL CHAMPAI	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) SERCHHIP	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis LUGULU SAIHA	2. Amprolium emaw coccidiostat pek tur.



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiantge	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/English

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	0	6	3	7	9
Max Temp (°C)	35	32	32	32	32
Min Temp (°C)	21	22	22	22	22
Cloud Coverage	Clear sky	Mainly clear	Partially clear	Partially clear	Partially clear
Max RH (%)	98	98	96	98	95
Min RH (%)	57	57	63	61	61
Wind Speed (Kmph)	2	2	2	2	4
*Wind Direction	E	S-E	E	S-E	S-E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

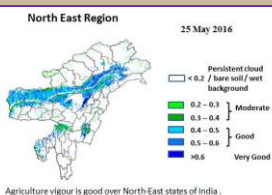
The temperature range for maximum and minimum were 25.2-27.1°C and 16.4-20.3°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 97-99% & minimum of 51-90%. Rainfall recorded for the past three days is **25.40mm.** (Source- mosdac.gov.in)

Weather forecast valid from 08th June, 2016 To 12th June, 2016.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 32-35°C and 21-22°C. Maximum relative humidity is expected in the range of 95-98% and minimum may from 57-63%. Wind direction would be easterly to southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 25.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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
Khasi Mandarin and acid lime	Nursery stage		✦ 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. ✦ 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. ✦ Seedling of uniform height should be selected for planting. ✦ Hooked or bench rooted plants should be discarded. ✦ Plant protection measures should be followed.
Oil plam	Vegetative stage		✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt). ✦ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✦ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		✦ Clear near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).



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)



		KOLASIB	- Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		MAMIT AIZAWL CHAMPAL SERCHHIP LUNGLEI	Comb weevil and stem weevil Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage		- High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. - A cutting should contain at least 3 buds and must be planted in sand beds. - Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: - The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	- Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. - The flowering emergence will come out after 55-60 days after chemical spraying. - Apply split doses of fertilizer @ 60: 50:60 g per plant. - Remove all unwanted leaves, branches and



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)



Colocasia	Vegetative stage	KOLASIB	weed near to the plant. - Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	AIZAWL	- 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. - Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre emergence application of Basalin



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)



		KOLASIB	@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage	MAMIT AIZAWL SERCHHIP LUNGLEI	- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage	LAWNGTLAI SAIHA	- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		Remove unwanted plant near base of the

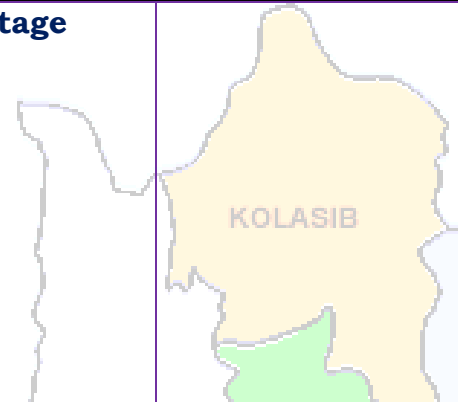


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



turmeric	stage		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/Mizo

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	0	6	3	7	9
Max Temp (oC)	35	32	32	32	32
Min Temp (oC)	21	22	22	22	22
Cloud Coverage	Clear sky	Mainly clear	Partially clear	Partially clear	Partially clear
Max RH (%)	98	98	96	98	95
Min RH (%)	57	57	63	61	61
Wind Speed (Kmph)	2	2	2	2	4
*Wind Direction	E	S-E	E	S-E	S-E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

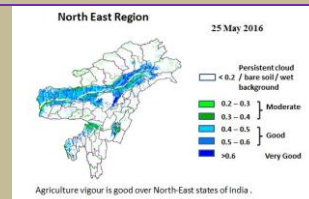
June 08, 2016 atanga June 12, 2016 sik leh sa dinhmun hmuhlawk dan n

Khua a lum lai berin 25.2-26.2°C leh a vawh lai berin 16.3-17.2°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 95-100% leh a hniam lai 59-94% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **29.20mm** ani. (Source- Mosdac.gov.in)

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 32-35°C a ni ang a. A vawh lai ber in 21-22°C ni tur ah beisei a ni. RH san lai berin 95-98% leh a hniam lai berin 57-63% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 25.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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)



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
Oil palm	A than lai/a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih 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)



Balhla	A than lai/ a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. - Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
Lakhuihthei	A than lai		- Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. - Lakhuihthei kung chu thal lai ni 20-25 inkar ah tui vawi 5/6 pek tur. - Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. - Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
Lakhuihthei	A par lai		- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah 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)



			ang. ✚ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ✚ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai	KOLASIB MAMIT AIZAWL CHAMPAI	✚ Ni 7 danah tui chu tha taka pek tur. ✚ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ✚ Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur. SERCHHIP	✚ A kung bulthut ah hnim chheh darh tur. ✚ A khat tawkin tui pek tur. ✚ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai	LUNGLEI	✚ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan	LAWNGTLAI SAIHA	✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).



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)



			Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - Nitrogen leitha chu an mamawh



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)



		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales KOLASIB	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun MAMIT	Swine fever. AIZAWL CHAMPAI	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) SERCHHIP	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis LUGULU SAIHA	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAI	



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiantge	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Saiha

Period: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/English

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	0	4	4	6	0
Max Temp (°C)	33	31	31	31	31
Min Temp (°C)	20	20	20	20	20
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Partially clear	Partially clear
Max RH (%)	98	98	96	98	97
Min RH (%)	70	72	80	78	63
Wind Speed (Kmph)	2	0	0	2	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

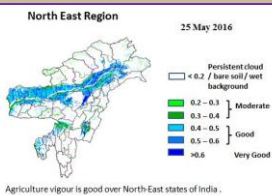
The temperature range for maximum and minimum were 22.3-24.3°C and 15.1-15.8°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 92-100% & minimum of 54-89%. Rainfall recorded for the past three days is **25.00mm.** (Source-mosdac.gov.in)

Weather forecast valid from 08th June, 2016 To 12th June, 2016.

There are chances of light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 31-33°C and 20°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 63-80%. Wind direction would be easterly to southeasterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 14.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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
Khasi Mandarin and acid lime	Nursery stage		✚ 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. ✚ 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. ✚ Seedling of uniform height should be selected for planting. ✚ Hooked or bench rooted plants should be discarded. ✚ Plant protection measures should be followed.
Oil plam	Vegetative stage		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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)



		KOLASIB	- Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		MAMIT AIZAWL CHAMPAL SERCHHIP LUNGLEI	Comb weevil and stem weevil Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage		- High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. - A cutting should contain at least 3 buds and must be planted in sand beds. - Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: - The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	- Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. - The flowering emergence will come out after 55-60 days after chemical spraying. - Apply split doses of fertilizer @ 60: 50:60 g per plant. - Remove all unwanted leaves, branches and



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)



Colocasia	Vegetative stage	KOLASIB	weed near to the plant. - Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	AIZAWL	- 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. - Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre emergence application of Basalin



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)



		KOLASIB	@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage	MAMIT AIZAWL SERCHHIP LUNGLEI	- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage	LAWNGTLAI SAIHA	- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		Remove unwanted plant near base of the

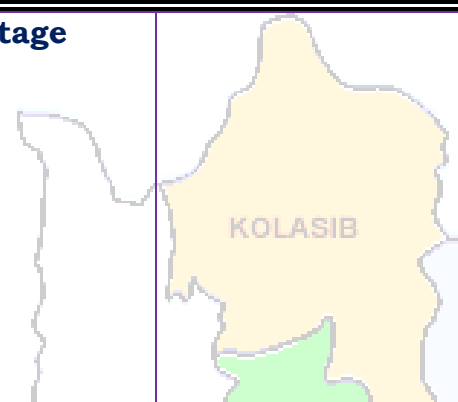
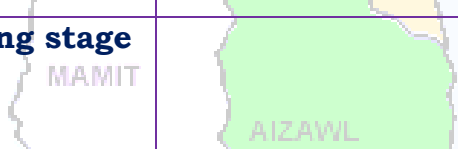


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



turmeric	stage		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Saiha

Period: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/Mizo

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	0	4	4	6	0
Max Temp (oC)	33	31	31	31	31
Min Temp (oC)	20	20	20	20	20
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Partially clear	Partially clear
Max RH (%)	98	98	96	98	97
Min RH (%)	70	72	80	78	63
Wind Speed (Kmph)	2	0	0	2	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

**Ni thum kaltha sik leh sa
dinhmun tlangpui**

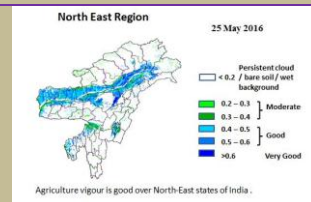
**June 08, 2016 atanga June 12, 2016 sik leh
sa dinhmun hmuhlawk dan**

Khua a lum lai berin 22.3-24.3°C leh a vawh lai berin 15.1-15.8°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 92-100% leh a hniam lai 54-89% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **25.00mm** ani. **(Source- Mosdac.gov.in)**

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-33°C a ni ang a. A vawh lai ber in 20°C ni tur ah beisei a ni. RH san lai berin 97-98% leh a hniam lai berin 63-80% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 14.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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)



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
Oil palm	A than lai/a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih 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)



Balhla	A than lai/ a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. - Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
Lakhuihthei	A than lai		- Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. - Lakhuihthei kung chu thal lai ni 20-25 inkar ah tui vawi 5/6 pek tur. - Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. - Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
Lakhuihthei	A par lai		- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah 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)



			ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai	KOLASIB	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai	SERCHHIP	- Bean hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan	LUNGLEI	- Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	LAWNGTLAI	Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).



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)



			Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - Nitrogen leitha chu an mamawh



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)



		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales KOLASIB	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun MAMIT	Swine fever. AIZAWL CHAMPAI	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) SERCHHIP	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis LULUAI SAIHA	2. Amprolium emaw coccidiostat pek tur.



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiantge	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip

Period: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/English

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	6	3	4	12	3
Max Temp (°C)	31	32	31	31	30
Min Temp (°C)	19	19	19	19	19
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	100	99	100	99
Min RH (%)	74	79	82	83	82
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	E	E	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

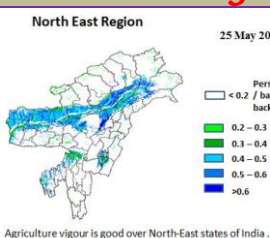
Weather summary of the past three days

Weather forecast valid from 08th June, 2016 To 12th June, 2016.

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 19°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 74-83%. Wind direction would be southeasterly to easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 28.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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
Khasi Mandarin and acid lime	Nursery stage		✚ 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. ✚ 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. ✚ Seedling of uniform height should be selected for planting. ✚ Hooked or bench rooted plants should be discarded. ✚ Plant protection measures should be followed.
Oil plam	Vegetative stage		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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)



		KOLASIB	- Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		MAMIT AIZAWL CHAMPAL SERCHHIP LUNGLEI	Comb weevil and stem weevil Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage		- High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. - A cutting should contain at least 3 buds and must be planted in sand beds. - Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: - The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	- Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. - The flowering emergence will come out after 55-60 days after chemical spraying. - Apply split doses of fertilizer @ 60: 50:60 g per plant. - Remove all unwanted leaves, branches and



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)



Colocasia	Vegetative stage	KOLASIB	weed near to the plant. - Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		MAMIT	
Cucurbitaceous crop	Harvesting stage	AIZAWL	Corm borer - Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. - 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. - Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre emergence application of Basalin
		SAIHA	



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)



		KOLASIB	@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage	MAMIT AIZAWL SERCHHIP LUNGLEI	- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage	LAWNGTLAI SAIHA	- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		Remove unwanted plant near base of the

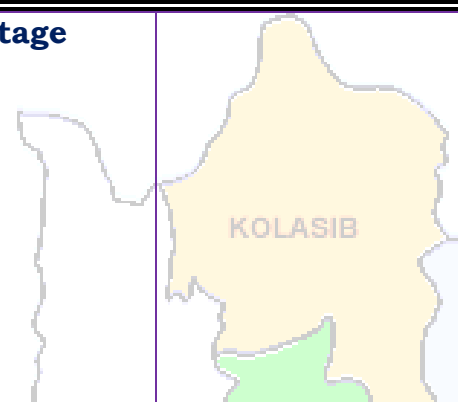
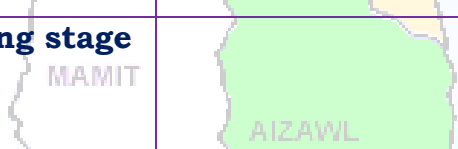


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



turmeric	stage		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip

Period: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/Mizo

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	6	3	4	12	3
Max Temp (oC)	31	32	31	31	30
Min Temp (oC)	19	19	19	19	19
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	100	99	100	99
Min RH (%)	74	79	82	83	82
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	E	E	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 245.10 mm (185.67mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-45.40 mm (101.58mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

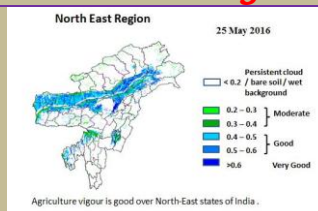
Ni thum kaltha sik leh sa dinhmun tlangpui

June 08, 2016 atanga June 12, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-32°C a ni ang a.A vawh lai ber in 19°C ni tur ah beisei a ni.RH san lai berin 99-100% leh a hniam lai berin 74-83% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 28.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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)



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
Oil palm	A than lai/a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih 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)



Balhla	A than lai/ a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. - Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
Lakhuihthei	A than lai		- Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. - Lakhuihthei kung chu thal lai ni 20-25 inkar ah tui vawi 5/6 pek tur. - Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. - Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
Lakhuihthei	A par lai		- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60



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)



			chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai		- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai		- Bean hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		- Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau



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)



			leh 15cm a sei ni se). Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlh chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlh a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur.



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)



			✚ Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiantge	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl

Period: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/Mizo

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	4	12	5	10	9
Max Temp (oC)	30	30	30	31	31
Min Temp (oC)	19	19	19	20	20
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	99	97	99	97
Min RH (%)	57	58	69	67	68
Wind Speed (Kmph)	2	2	2	2	3
*Wind Direction	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

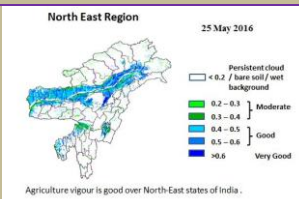
Khua a lum lai berin 25.2-27.1°C leh a vawh lai berin 16.4-20.3°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 97-99% leh a hniam lai 51-90% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **51.20mm** ani. (Source- Mosdac.gov.in)

NDVI for Mizoram

June 08, 2016 atanga June 12, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 19-20°C ni tur ah beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 57-69% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 40.0mm



NDVI of soil moisture for Mizoram is moderate wet condition.



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)



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
Oil palm	A than lai/a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih 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)



Balhla	A than lai/ a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. - Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
Lakhuihthei	A than lai		- Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. - Lakhuihthei kung chu thal lai ni 20-25 inkar ah tui vawi 5/6 pek tur. - Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. - Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
Lakhuihthei	A par lai		- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah 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)



			ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai	KOLASIB	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuah tur.
French bean	A par lai		- Bean hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		- Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).



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)



			Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlh chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlh a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - Nitrogen leitha chu an mamawh



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)



		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales KOLASIB	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun MAMIT	Swine fever. AIZAWL CHAMPAI	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) SERCHHIP	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis LUGULU SAIHA	2. Amprolium emaw coccidiostat pek tur.



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiantge	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl

Period: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/English

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	4	12	5	10	9
Max Temp (°C)	30	30	30	31	31
Min Temp (°C)	19	19	19	20	20
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	99	97	99	97
Min RH (%)	57	58	69	67	68
Wind Speed (Kmph)	2	2	2	2	3
*Wind Direction	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

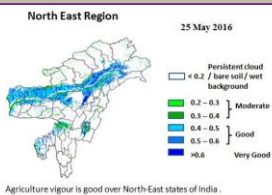
The temperature range for maximum and minimum were 25.2-27.1°C and 16.4-20.3°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 97-99% & minimum of 51-90%. Rainfall recorded for the past three days is **25.40mm.** (Source- mosdac.gov.in)

Weather forecast valid from 08th June, 2016 To 12th June, 2016.

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 30-31°C and 19-20°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 57-69%. Wind direction would be easterly to southeasterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 40.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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
Khasi Mandarin and acid lime	Nursery stage		✚ 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. ✚ 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. ✚ Seedling of uniform height should be selected for planting. ✚ Hooked or bench rooted plants should be discarded. ✚ Plant protection measures should be followed.
Oil plam	Vegetative stage		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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)



		KOLASIB	- Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		MAMIT AIZAWL CHAMPAL SERCHHIP LUNGLEI	Comb weevil and stem weevil Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage		- High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. - A cutting should contain at least 3 buds and must be planted in sand beds. - Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: - The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	- Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. - The flowering emergence will come out after 55-60 days after chemical spraying. - Apply split doses of fertilizer @ 60: 50:60 g per plant. - Remove all unwanted leaves, branches and



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)



Colocasia	Vegetative stage	KOLASIB	weed near to the plant. - Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	AIZAWL	- 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. - Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre emergence application of Basalin



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)



		KOLASIB	@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage	MAMIT AIZAWL SERCHHIP LUNGLEI	- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage	LAWNGTLAI SAIHA	- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		Remove unwanted plant near base of the

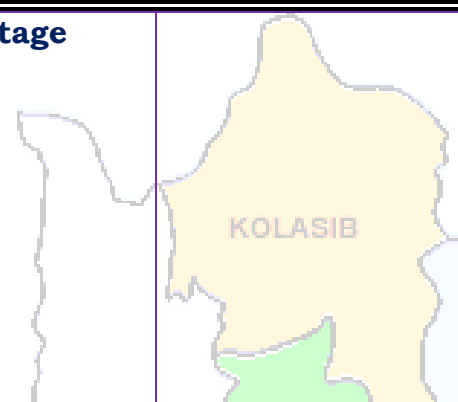
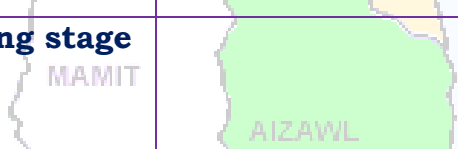


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



turmeric	stage		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/English

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	9	12	9	16	11
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	19	19	20	20	20
Cloud Coverage	Mainly clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	97	96	95	96	97
Min RH (%)	61	65	73	71	72
Wind Speed (Kmph)	2	2	2	2	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

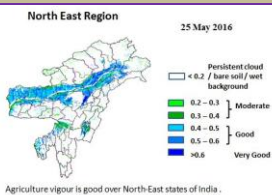
The temperature range for maximum and minimum were 25.3-27.0°C and 16.6-20.3°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 93-100% & minimum of 54-95%. Rainfall recorded for the past three days is **50.30mm.** (Source- mosdac.gov.in)

Weather forecast valid from 08th June, 2016 To 12th June, 2016.

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°C and 19-20°C. Maximum relative humidity is expected in the range of 95-97% and minimum may from 61-73%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 57.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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
Khasi Mandarin and acid lime	Nursery stage		✚ 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. ✚ 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. ✚ Seedling of uniform height should be selected for planting. ✚ Hooked or bench rooted plants should be discarded. ✚ Plant protection measures should be followed.
Oil plam	Vegetative stage		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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)



		KOLASIB	- Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		MAMIT AIZAWL CHAMPAL SERCHHIP LUNGLEI	Comb weevil and stem weevil Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage		- High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. - A cutting should contain at least 3 buds and must be planted in sand beds. - Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: - The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	- Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. - The flowering emergence will come out after 55-60 days after chemical spraying. - Apply split doses of fertilizer @ 60: 50:60 g per plant. - Remove all unwanted leaves, branches and



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)



Colocasia	Vegetative stage	KOLASIB	weed near to the plant. - Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	AIZAWL	- 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. - Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre emergence application of Basalin



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)



		KOLASIB	@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage	MAMIT AIZAWL SERCHHIP LUNGLEI	- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage	LAWNGTLAI SAIHA	- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		Remove unwanted plant near base of the

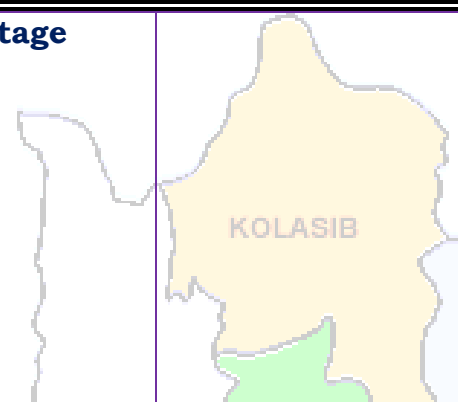
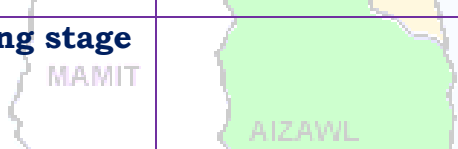


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



turmeric	stage		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/Mizo

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	9	12	9	16	11
Max Temp (oC)	30	30	30	30	30
Min Temp (oC)	19	19	20	20	20
Cloud Coverage	Mainly clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	97	96	95	96	97
Min RH (%)	61	65	73	71	72
Wind Speed (Kmph)	2	2	2	2	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

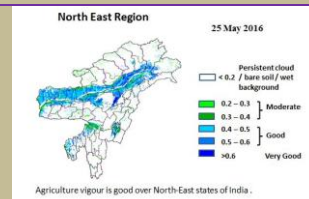
Khua a lum lai berin 25.3-27.0°C leh a vawh lai berin 19.6-20.3°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 93-100% leh a hniam lai 54-95% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **50.30mm** ani. (Source- Mosdac.gov.in)

June 04, 2016 atanga June 08, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30°C a ni ang a. A vawh lai berin 19-20°C ni tur ah beisei a ni. RH san lai berin 95-97% leh a hniam lai berin 61-73% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 57.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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)



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
Oil palm	A than lai/a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih 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)



Balhla	A than lai/ a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. - Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
Lakhuihthei	A than lai		- Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. - Lakhuihthei kung chu thal lai ni 20-25 inkar ah tui vawi 5/6 pek tur. - Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. - Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
Lakhuihthei	A par lai		- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah 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)



			ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai	KOLASIB	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai		- Bean hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		- Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).



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)



			Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - Nitrogen leitha chu an mamawh



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)



		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales KOLASIB	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun MAMIT	Swine fever. AIZAWL CHAMPAI	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) SERCHHIP	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis LUGULU SAIHA	2. Amprolium emaw coccidiostat pek tur.



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiantge	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/English

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	0	9	4	8	9
Max Temp (°C)	33	32	32	32	31
Min Temp (°C)	20	21	21	22	22
Cloud Coverage	Clear sky	Mainly clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	99	97	99	97
Min RH (%)	51	52	64	62	64
Wind Speed (Kmph)	2	2	2	2	4
*Wind Direction	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

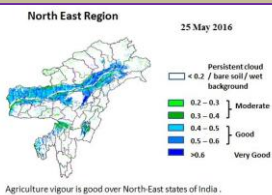
The temperature range for maximum and minimum were 27.2-31.1°C and 20.6-21.1°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 90-98% & minimum of 61-94%. Rainfall recorded for the past three days is **30.00mm.** (Source- mosdac.gov.in)

Weather forecast valid from 08th June, 2016 To 12th June, 2016.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 31-33°C and 20-22°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 51-64%. 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: 30.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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
Khasi Mandarin and acid lime	Nursery stage		✚ 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. ✚ 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. ✚ Seedling of uniform height should be selected for planting. ✚ Hooked or bench rooted plants should be discarded. ✚ Plant protection measures should be followed.
Oil plam	Vegetative stage		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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)



		KOLASIB	- Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		MAMIT AIZAWL CHAMPAL	Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	Comb weevil and stem weevil SERCHHIP LUNGLEI	- High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. - A cutting should contain at least 3 buds and must be planted in sand beds. - Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: - The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	- Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. - The flowering emergence will come out after 55-60 days after chemical spraying. - Apply split doses of fertilizer @ 60: 50:60 g per plant. - Remove all unwanted leaves, branches and



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)



Colocasia	Vegetative stage	KOLASIB	weed near to the plant. - Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	AIZAWL	- 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. - Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre emergence application of Basalin



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)



		KOLASIB	@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage	MAMIT AIZAWL SERCHHIP LUNGLEI	- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage	LAWNGTLAI SAIHA	- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		Remove unwanted plant near base of the

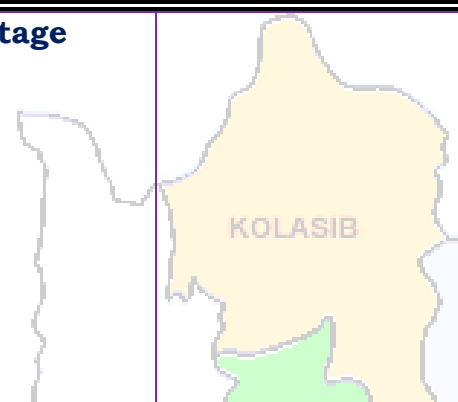
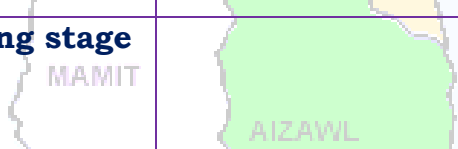


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



turmeric	stage		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/Mizo

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	0	9	4	8	9
Max Temp (oC)	33	32	32	32	31
Min Temp (oC)	20	21	21	22	22
Cloud Coverage	Clear sky	Mainly clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	99	97	99	97
Min RH (%)	51	52	64	62	64
Wind Speed (Kmph)	2	2	2	2	4
*Wind Direction	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

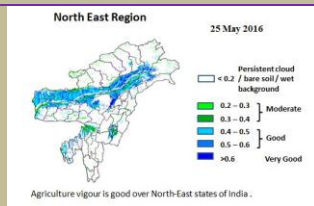
Khua a lum lai berin 27.2-31.1°C leh a vawh lai berin 20.6-21.1°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 90-98% leh a hniam lai 61-94% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **30.00mm** ani. (Source- Mosdac.gov.in)

NDVI for Mizoram

June 08, 2016 atanga June 12, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-33°C a ni ang a. A vawh lai ber in 20-22°C ni tur ah beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 51-64% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 30.0mm



NDVI of soil moisture for Mizoram is moderate wet condition.



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)



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
Oil palm	A than lai/a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih 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)



Balhla	A than lai/ a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. - Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
Lakhuihthei	A than lai		- Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. - Lakhuihthei kung chu thal lai ni 20-25 inkar ah tui vawi 5/6 pek tur. - Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. - Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
Lakhuihthei	A par lai		- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah 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)



			ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai	KOLASIB	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai	SERCHHIP	- Bean hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan	LUNGLEI	- Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	LAWNGTLAI	Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).



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)



			Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - Nitrogen leitha chu an mamawh



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)



		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales KOLASIB	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun MAMIT	Swine fever. AIZAWL CHAMPAI	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) SERCHHIP	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis LUGULU SAIHA	2. Amprolium emaw coccidiostat pek tur.



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiantge	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/English

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	0	0	0	5	4
Max Temp (°C)	33	33	33	31	31
Min Temp (°C)	21	21	21	20	20
Cloud Coverage	Mainly clear	Partially clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	96	96	93	95	93
Min RH (%)	66	65	72	71	59
Wind Speed (Kmph)	3	2	2	3	5
*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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

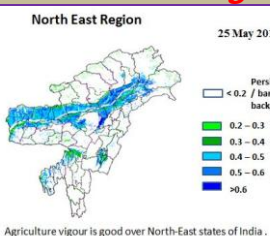
Weather summary of the past three days

Weather forecast valid from 08th June, 2016 To 12th June, 2016.

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 31-33°C and 20-21°C. Maximum relative humidity is expected in the range of 93-96% and minimum may from 59-72%. Wind direction would be easterly to southeasterly with the wind speed of 2-5 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 09.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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
Khasi Mandarin and acid lime	Nursery stage		✚ 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. ✚ 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. ✚ Seedling of uniform height should be selected for planting. ✚ Hooked or bench rooted plants should be discarded. ✚ Plant protection measures should be followed.
Oil plam	Vegetative stage		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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)



		KOLASIB	- Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		MAMIT AIZAWL CHAMPAL	Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	Comb weevil and stem weevil SERCHHIP LUNGLEI	- High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. - A cutting should contain at least 3 buds and must be planted in sand beds. - Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: - The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	- Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. - The flowering emergence will come out after 55-60 days after chemical spraying. - Apply split doses of fertilizer @ 60: 50:60 g per plant. - Remove all unwanted leaves, branches and



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)



Colocasia	Vegetative stage	KOLASIB	weed near to the plant. - Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		MAMIT	
Cucurbitaceous crop	Harvesting stage	AIZAWL	Corm borer - Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. - 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. - Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre emergence application of Basalin
		SAIHA	



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)



		KOLASIB	@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage	MAMIT AIZAWL SERCHHIP LUNGLEI	- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage	LAWNGTLAI SAIHA	- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		Remove unwanted plant near base of the

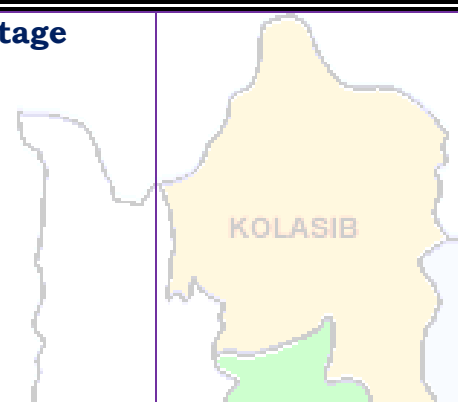
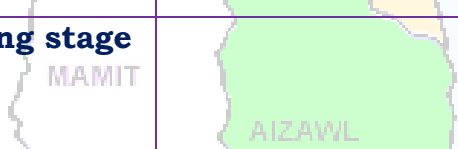


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



turmeric	stage		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: 08 June - 12 June, 2016

Bulletin No: - 608/2016/ Bulletin/Mizo

Date of issue: 08th June, 2016

Parameters	08.06.2016	09.06.2016	10.06.2016	11.06.2016	12.06.2016
Rainfall (mm)	0	0	0	5	4
Max Temp (oC)	33	33	33	31	31
Min Temp (oC)	21	21	21	20	20
Cloud Coverage	Mainly clear	Partially clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	96	96	93	95	93
Min RH (%)	66	65	72	71	59
Wind Speed (Kmph)	3	2	2	3	5
*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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

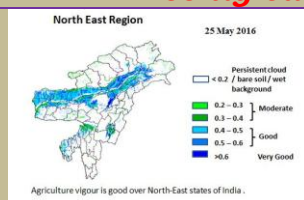
Ni thum kaltha sik leh sa dinhmun tlangpui

June 08, 2016 atanga June 12, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-33°C a ni ang a.A vawh lai ber in 20-21°C ni tur ah beisei a ni.RH san lai berin 93-96% leh a hniam lai berin 59-72% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-5 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 09.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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)



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
Oil palm	A than lai/a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar thlak hnuah Bordeaux mixture tah tur ani. - Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih 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)



Balhla	A than lai/ a seng hun		- Ni 10-15 inkar danah tui pek tur. - Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. - Leitha chu 600:200:100 (g/plt) a pek tur. - Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. - A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. - Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
Lakhuihthei	A than lai		- Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. - Lakhuihthei kung chu thal lai ni 20-25 inkar ah tui vawi 5/6 pek tur. - Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. - Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
Lakhuihthei	A par lai		- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60



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)



			chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai		- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrh Saiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai		- Bean hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur. - A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		- Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlath a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau



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)



			leh 15cm a sei ni se). Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice 	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlh chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlh a chi chu chiah tur.
		Raised bed method 	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lei chu boruak kal that nan laihphut thin tur.



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)



			Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiantge	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com