



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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/Mizo

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	18	10	8	8	7
Max Temp (oC)	31	31	31	31	32
Min Temp (oC)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	97	98
Min RH (%)	95	75	70	69	66
Wind Speed (Kmph)	2	2	2	2	3
*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

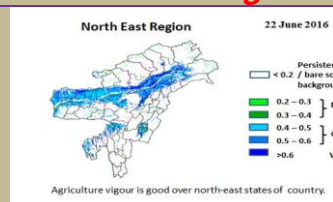
July 09, 2016 atanga July 13, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 26.0^oC leh a vawh lai berin 22.5-23.3^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 99-100% leh a hniam lai 64-94% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **50.00 mm** ani. (Source- Mosdac.gov.in)

Ni 5 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 23^oC ni tur ah beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 66-95% 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: 51.0mm

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
Khasi Mandarin and acid lime	Transplant stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk 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)



		KOLASIB	<ul style="list-style-type: none"> Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		LUNGLEI	<ul style="list-style-type: none"> Comb weevil and stem weevil
Sapthei	Transplanting stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Lakhuihthei	A par lai	KOLASIB	<p>kumkhat chhungin pek tur.</p> <ul style="list-style-type: none"> 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 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.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAI	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> 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	LULUAI	<p>1. Nursery tihfai a tui tlem pek tur.</p> <p>2. Phunsawn hnuah tui tha taka pek tur.</p> <ul style="list-style-type: none"> 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	LAWNGTLAI	<ul style="list-style-type: none"> 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	SAIHA	<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice AIZAWL	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ 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.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O hman tur. Vaimim chin hma in lei nen tihpawlh</p>



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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	KOLASIB	<ul style="list-style-type: none"> 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 taw kanga pek tur.
		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh 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)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> 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: Lawngtlai

Period: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/Mizo

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	4	4	4	5	3
Max Temp (oC)	29	29	30	30	30
Min Temp (oC)	22	22	22	22	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Partially clear
Max RH (%)	98	98	96	96	96
Min RH (%)	75	75	75	72	73
Wind Speed (Kmph)	4	4	4	4	6
*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)

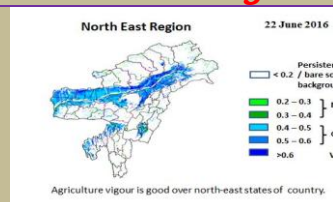
Ni thum kaltha sik leh sa dinhmun tlangpui

July 09, 2016 atanga July 13, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30°C a ni ang a.A vawh lai ber in 22-23°C ni tur ah beisei a ni.RH san lai berin 96-98% leh a hniam lai berin 72-75% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 20.0mm

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
Khasi Mandarin and acid lime	Transplant stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk 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)



		KOLASIB	<ul style="list-style-type: none"> Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		LUNGLEI	<ul style="list-style-type: none"> Comb weevil and stem weevil
Sapthei	Transplanting stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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. A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Lakhuihthei	A par lai	KOLASIB	<p>kumkhat chhungin pek tur.</p> <ul style="list-style-type: none"> 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 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.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAI	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> 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	LULU	<p>1. Nursery tihfai a tui tlem pek tur.</p> <p>2. Phunsawn hnuah tui tha taka pek tur.</p> <ul style="list-style-type: none"> 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	LAWNGTLAI	<ul style="list-style-type: none"> 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	SAIHA	<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin lei tur.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice AIZAWL CHAMPAI	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ 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.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O hman tur. Vaimim chin hma in lei nen tihpawlh</p>



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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	KOLASIB	<ul style="list-style-type: none"> 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 taw kanga pek tur.
		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh 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)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> 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: Lawngtlai

Period: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/English

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	4	4	4	5	3
Max Temp (°C)	29	29	30	30	30
Min Temp (°C)	22	22	22	22	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Partially clear
Max RH (%)	98	98	96	96	96
Min RH (%)	75	75	75	72	73
Wind Speed (Kmph)	4	4	4	4	6
*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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (25.9mm)

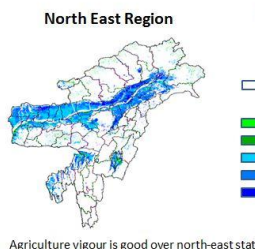
Weather summary of the past three days

Weather forecast valid from 09th June, 2016 To 13th June, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 22-23°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 72-75%. Wind direction would be to southeasterly with the wind speed of 4-6 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 20.0 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	Transplanting stage		<ul style="list-style-type: none"> Citrus trees should be planted in a sunny and wind-protected area. In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	<ul style="list-style-type: none"> Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts. Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminer and butterfly	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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)



Oil plam	Vegetative stage	KOLASIB	<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none"> ✚ 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	AIZAWL	<ul style="list-style-type: none"> ✚ Clear 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.
		Banana Rhizome weevil	<ul style="list-style-type: none"> ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none"> ✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Maturity stage	LAWNGTLAI	<ul style="list-style-type: none"> ✚ Fruits usually mature in 120 to 140 days after flowering. ✚ The fruit bunch is harvested when the ridges on their surface changes from angular to round. ✚ The dried parts of flowers at the top of



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<ul style="list-style-type: none"> fruit drop off easily. The top most leaf starts drying as the bunch matures. Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	<ul style="list-style-type: none"> Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Passion Fruit	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. In dry spell apply mulch with grass. Trellises are in the north-south direction to minimize the shades during early morning and late evening. Young vines are trained to grow along the wire support of the trellises.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none"> A basal golden yellow coloration at the base is the sign of a ripe fruit. Fresh fruits destined for the local market are plucked when almost ripe. Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
Colocasia	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of



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)



	stage	KOLASIB	<ul style="list-style-type: none"> 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.
Cucurbitaceo us crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> Corm borer Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application Weeding can be done by hoeing as and when necessary. Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. Harvest all mature fruit.
		SERCHHIP	<ul style="list-style-type: none"> Fruit fly and 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.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none"> 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. Harvest all mature fruit.
		LAWNGTLAI	<ul style="list-style-type: none"> Okra leafroller Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/l of water.
Cowpea	Fruit initiation to harvest	SAIHA	<ul style="list-style-type: none"> 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



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)



			beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest	KOLASIB	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @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. ✚ Harvest all mature fruit.
		MAMIT	
		Shoot and fruit borer and	✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage	SERCHHIP	✚ Select disease free seedling with 3-5 leaf stage. ✚ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✚ 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.
		LUNGLEI	
Pre kharif Rice	Maximum tillering stage		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
		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)



Maize	Tassling and silking stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> 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 turmeric	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the 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.
		Turmeric shoot borer	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> Remove unwanted plant from the base of the plant. Earthing up near base of the plant. Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
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)	<ul style="list-style-type: none"> FMD vaccine at 16 week and repeat every



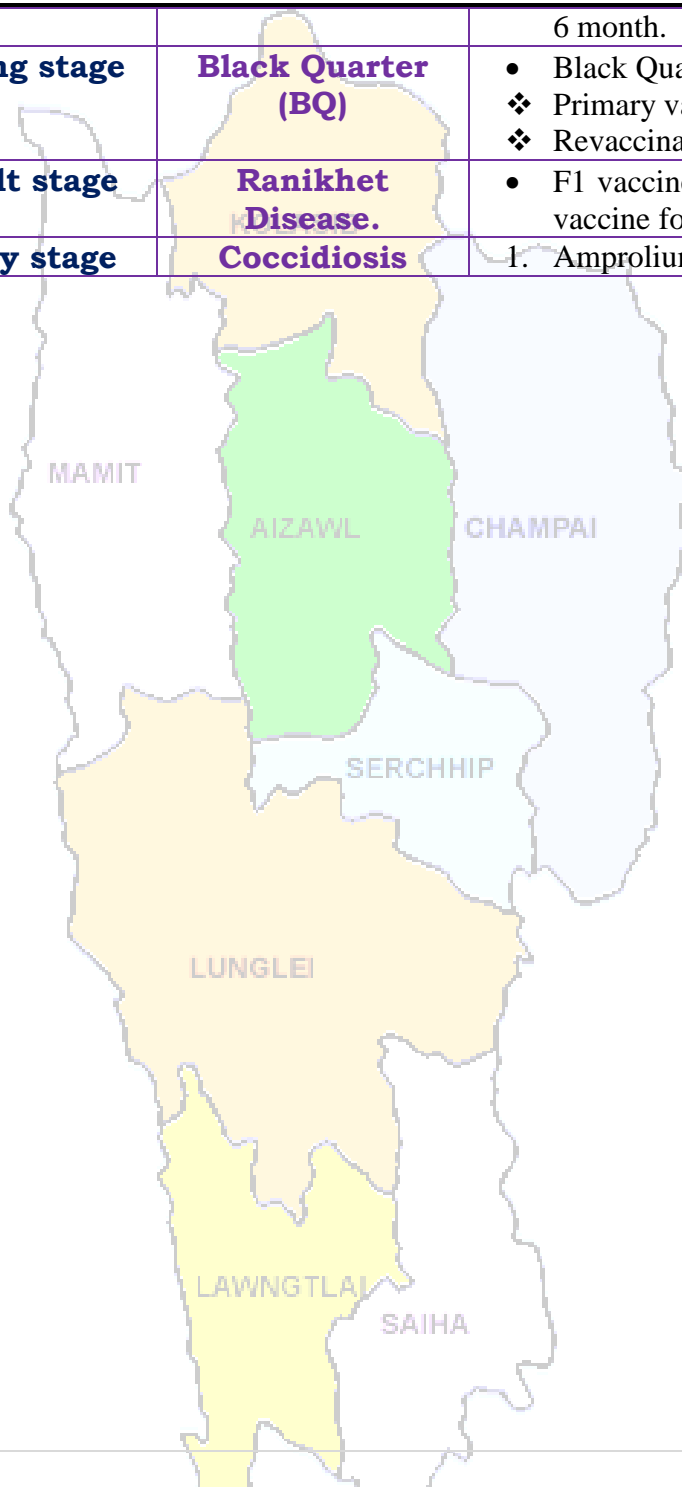
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none"> 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: Lunglei

Period: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/English

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	4	3	3	4	4
Max Temp (°C)	29	29	30	30	30
Min Temp (°C)	22	21	22	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	98	97
Min RH (%)	87	79	72	62	62
Wind Speed (Kmph)	2	2	3	3	3
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

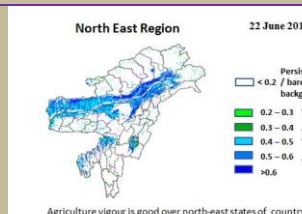
The temperature range for maximum and minimum were 23.2-24.8°C and 18.1-19.8°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 97-99% & minimum of 60-97%. Rainfall recorded for the past three days is **37.50 mm. (Source-NICRA, AWS, Network)**

Weather forecast valid from 09th June, 2016 To 13th June, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 21-22°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 62-87%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 18.0 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	Transplanting stage		<ul style="list-style-type: none"> Citrus trees should be planted in a sunny and wind-protected area. In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	<ul style="list-style-type: none"> Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts. Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminer and butterfly	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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)



Oil plam	Vegetative stage	KOLASIB MAMIT	<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none"> 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	AIZAWL SERCHHIP	<ul style="list-style-type: none"> Clear 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.
		Banana Rhizome weevil LUNGLEI	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none"> Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Maturity stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Fruits usually mature in 120 to 140 days after flowering. The fruit bunch is harvested when the ridges on their surface changes from angular to round. The dried parts of flowers at the top of



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<ul style="list-style-type: none"> fruit drop off easily. The top most leaf starts drying as the bunch matures. Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	<ul style="list-style-type: none"> Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Passion Fruit	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. In dry spell apply mulch with grass. Trellises are in the north-south direction to minimize the shades during early morning and late evening. Young vines are trained to grow along the wire support of the trellises.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none"> A basal golden yellow coloration at the base is the sign of a ripe fruit. Fresh fruits destined for the local market are plucked when almost ripe. Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
Colocasia	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of



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)



	stage	KOLASIB	<ul style="list-style-type: none"> 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.
Cucurbitaceo us crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> ✚ Corm borer ✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. ✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.
		SERCHHIP	<ul style="list-style-type: none"> ✚ Fruit fly and ✚ 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.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none"> ✚ 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. ✚ Harvest all mature fruit.
		LAWNGTLAI	<ul style="list-style-type: none"> ✚ Okra leafroller ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/l of water.
Cowpea	Fruit initiation to harvest	SAIHA	<ul style="list-style-type: none"> ✚ 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



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)



			beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest	KOLASIB	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @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. ✚ Harvest all mature fruit.
		MAMIT	
		Shoot and fruit borer and	✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Kharif Rice	Transplanting stage	SERCHHIP	✚ Select disease free seedling with 3-5 leaf stage. ✚ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. ✚ 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.
		LUNGLEI	
Pre kharif Rice	Maximum tillering stage		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		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)



Maize	Tassling and silking stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> 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 turmeric	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the 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.
		Turmeric shoot borer	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> Remove unwanted plant from the base of the plant. Earthing up near base of the plant. Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
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)	<ul style="list-style-type: none"> FMD vaccine at 16 week and repeat every



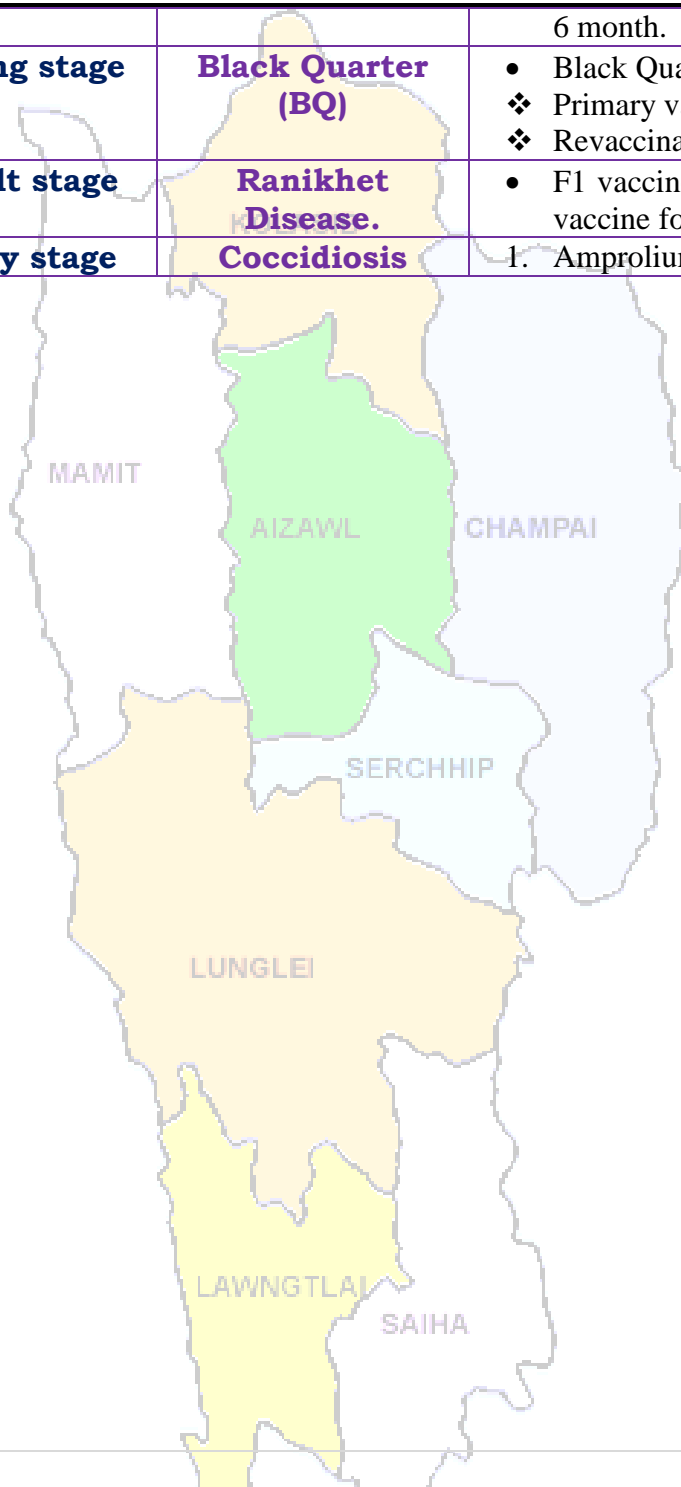
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none"> • 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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/Mizo

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	4	3	3	4	4
Max Temp (oC)	29	29	30	30	30
Min Temp (oC)	22	21	22	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	98	97
Min RH (%)	87	79	72	62	62
Wind Speed (Kmph)	2	2	3	3	3
*Wind Direction	E	E	E	E	E

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

STATUS OF 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

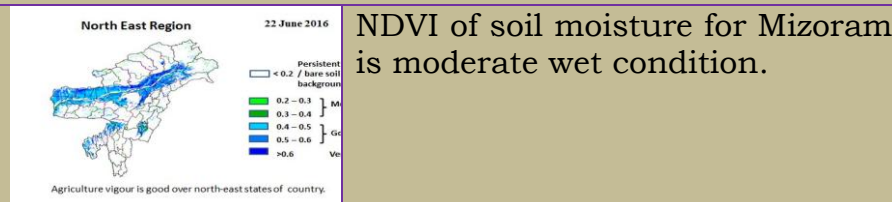
Khua a lum lai berin 23.2-24.8^oC leh a vawh lai berin 18.1-19.8^oC ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 97-99% leh a hniam lai 60-97% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **37.50 mm** ani. (Source-NICRA, AWS, Network)

July 09, 2016 atanga July 13, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30^oC a ni ang a. A vawh lai ber in 21-22^oC ni tur ah beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 62-87% 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: 18.0mm

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
Khasi Mandarin and acid lime	Transplant stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>thlak bawk tur.</p> <ul style="list-style-type: none"> Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> 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.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngkek leitha chu khur khat ah



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)



			15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuithiei	A par lai	KOLASIB	<ul style="list-style-type: none"> 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 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.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAI	<ul style="list-style-type: none"> Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> 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.
		LUNGLEI	
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	<ul style="list-style-type: none"> 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	LAWNGTLAI	<ul style="list-style-type: none"> 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.
		SAIHA	
Bawkbawn	A chin dan		<ul style="list-style-type: none"> Balu leh leitha chu lei nen a



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	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 pawlhinh lei tur.
Tomato	A chin dan	MAMIT	<ul style="list-style-type: none"> A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur. Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau 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	<ul style="list-style-type: none"> A chi tha leh khat tha chauh hman tur. Tui litre 10 ah chi (salt) 250g pawlhinh chutah chuan chiah tur. Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhinh a chi chu chiah tur.
		Raised bed method	<ul style="list-style-type: none"> 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	LAWNGTLAI	<ul style="list-style-type: none"> 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



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)



			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	KOLASIB	<ul style="list-style-type: none"> 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 taw kanga pek tur.
		MAMIT	
		AIZAWL	Thrips
		CHAMPAI	
			Scales
Vawk	Kumtluanin		<p>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh kah tur.</p> <p>1. A natna vei vawk te chu thah a phum tur a ni.</p>
	A puitling hun		<p>2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhonzawm tur</p>
Bawng	Kumtluanin		<p>Foot and Mouth Disease (FMD)</p> <ul style="list-style-type: none"> Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm tur a ni.
	A naupan lai		<p>Black Quarter (BQ)</p> <ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin		<p>Ranikhet Disease.</p> <p>1. Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni.</p>
			<p>Coccidiosis</p> <p>2. Amprolium emaw coccidiostat pek tur.</p>



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/English

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	20	8	4	5	5
Max Temp (°C)	30	31	32	32	32
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	97	96
Min RH (%)	89	73	67	63	62
Wind Speed (Kmph)	2	2	2	4	4
*Wind Direction	E	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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

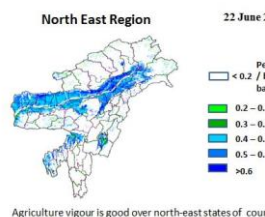
The temperature range for maximum and minimum were 25.1-26.8°C and 20.3-22.0°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 100% & minimum of 75-96%. Rainfall recorded for the past three days is **51.20 mm. (Source-mosdac.gov.in)**

Weather forecast valid from 09th June, 2016 To 13th 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 23-24°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 62-89%. 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: 42.0 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	Transplanting stage		<ul style="list-style-type: none"> Citrus trees should be planted in a sunny and wind-protected area. In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	<ul style="list-style-type: none"> Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts. Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminer and butterfly	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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)



Oil plam	Vegetative stage	KOLASIB	<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none"> 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	AIZAWL	<ul style="list-style-type: none"> Clear 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.
		Banana Rhizome weevil	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none"> Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Maturity stage	LAWNGTLAI	<ul style="list-style-type: none"> Fruits usually mature in 120 to 140 days after flowering. The fruit bunch is harvested when the ridges on their surface changes from angular to round. The dried parts of flowers at the top of



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<ul style="list-style-type: none"> fruit drop off easily. The top most leaf starts drying as the bunch matures. Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	<ul style="list-style-type: none"> Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Passion Fruit	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. In dry spell apply mulch with grass. Trellises are in the north-south direction to minimize the shades during early morning and late evening. Young vines are trained to grow along the wire support of the trellises.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none"> A basal golden yellow coloration at the base is the sign of a ripe fruit. Fresh fruits destined for the local market are plucked when almost ripe. Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
Colocasia	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of



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)



	stage	KOLASIB	<ul style="list-style-type: none"> 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.
Cucurbitaceo us crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> ✚ Corm borer ✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. ✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.
		SERCHHIP	<ul style="list-style-type: none"> ✚ Fruit fly and ✚ 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.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none"> ✚ 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. ✚ Harvest all mature fruit.
		LAWNGTLAI	<ul style="list-style-type: none"> ✚ Okra leafroller ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/l of water.
Cowpea	Fruit initiation to harvest	SAIHA	<ul style="list-style-type: none"> ✚ 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



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)



			beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest	KOLASIB	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @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. ✚ Harvest all mature fruit.
		MAMIT	
		Shoot and fruit borer and	✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Kharif Rice	Transplanting stage	SERCHHIP	✚ Select disease free seedling with 3-5 leaf stage. ✚ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. ✚ 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.
		LUNGLEI	
Pre kharif Rice	Maximum tillering stage		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		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)



Maize	Tassling and silking stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> 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 turmeric	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the 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.
		Turmeric shoot borer	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> Remove unwanted plant from the base of the plant. Earthing up near base of the plant. Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
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)	<ul style="list-style-type: none"> FMD vaccine at 16 week and repeat every



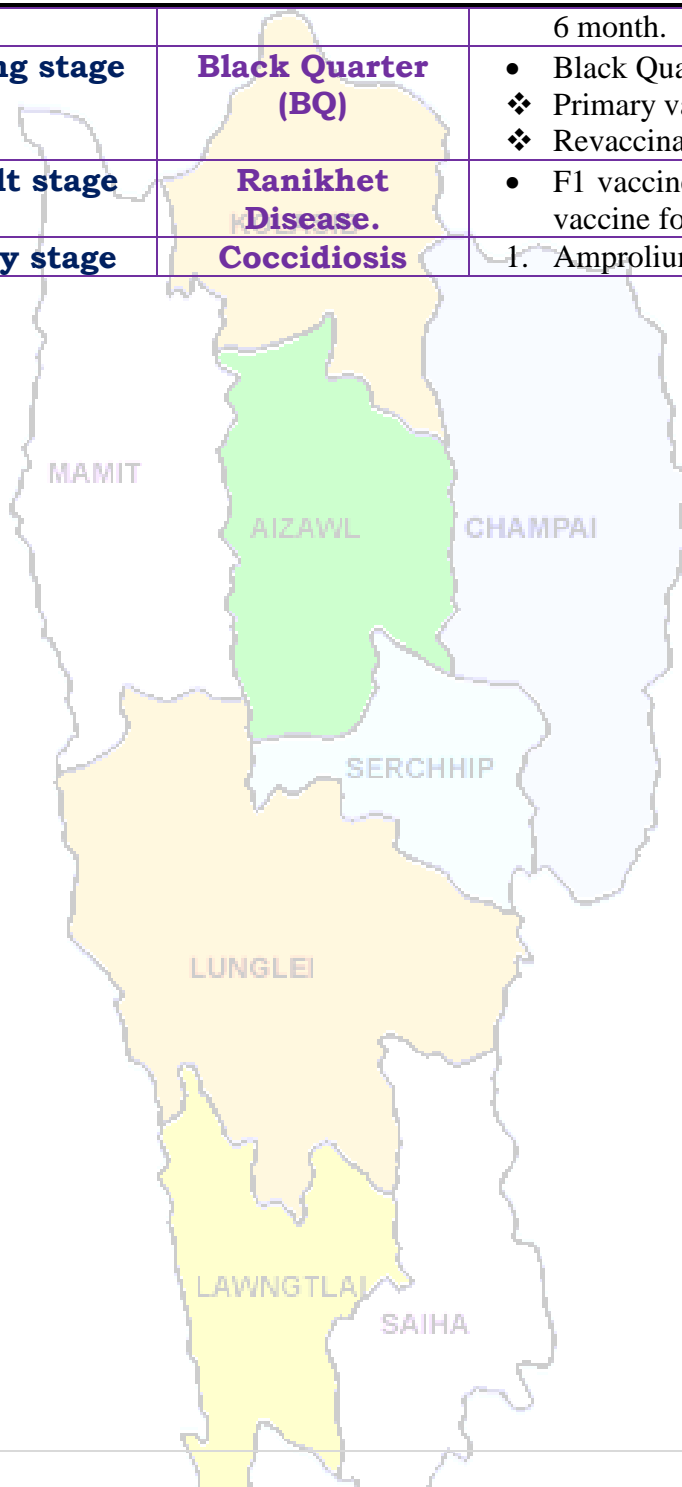
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none"> 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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/Mizo

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	20	8	4	5	5
Max Temp (oC)	30	31	32	32	32
Min Temp (oC)	23	23	24	24	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	97	96
Min RH (%)	89	73	67	63	62
Wind Speed (Kmph)	2	2	2	4	4
*Wind Direction	E	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

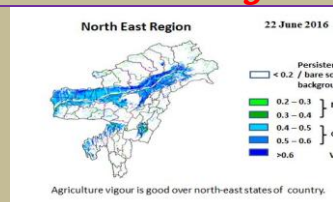
July 09, 2016 atanga July 13, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 25.1-26.8^oC leh a vawh lai berin 20.3-22.0^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 100% leh a hniam lai 75-96% ani ang. Ni 3 kal ta chung a ruah tla zatchu **51.20 mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-32^oC a ni ang a. A vawh lai ber in 23-24^oC ni tur ah beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 62-89% 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: 42.0mm

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
Khasi Mandarin and acid lime	Transplant stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk 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)



			<ul style="list-style-type: none"> Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> 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.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Lakhuihthei	A par lai	KOLASIB	<p>kumkhat chhungin pek tur.</p> <ul style="list-style-type: none"> 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 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 baw tur.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAI	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> 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	LULU	<p>1. Nursery tihfai a tui tlem pek tur.</p> <p>2. Phunsawn hnuah tui tha taka pek tur.</p> <ul style="list-style-type: none"> A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hlia khuh tur.
French bean	A par lai	LAWNGTLAI	<ul style="list-style-type: none"> Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laiphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan	SAIHA	<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>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.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice AIZAWL CHAMPAI	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ 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.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O hman tur. Vaimim chin hma in lei nen tihpawlh</p>



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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	KOLASIB	<ul style="list-style-type: none"> 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 taw kanga pek tur.
		Thrips	<ul style="list-style-type: none"> Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.
		Scales	<ul style="list-style-type: none"> Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh 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)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> 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: Saiha

Period: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/English

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	5	3	3	5	5
Max Temp (°C)	29	29	29	30	30
Min Temp (°C)	21	21	21	21	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	99	99	98	98	99
Min RH (%)	77	77	76	75	76
Wind Speed (Kmph)	2	2	3	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

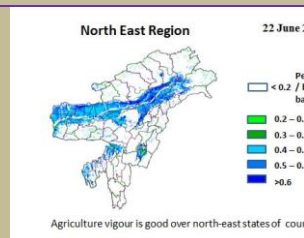
The temperature range for maximum and minimum were 18.4-19.6°C and 12.3-13.7°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 100% & minimum of 65-99%. Rainfall recorded for the past three days is **45.50 mm. (Source-mosdac.gov.in)**

Weather forecast valid from 09th June, 2016 To 13th June, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 21-22°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 75-77%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Mainly clear 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	Transplanting stage		<ul style="list-style-type: none"> Citrus trees should be planted in a sunny and wind-protected area. In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	<ul style="list-style-type: none"> Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts. Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leaf minor and butterfly	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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)



Oil plam	Vegetative stage	KOLASIB MAMIT	<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none"> 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	AIZAWL SERCHHIP	<ul style="list-style-type: none"> Clear 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.
		Banana Rhizome weevil LUNGLEI	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none"> Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Maturity stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Fruits usually mature in 120 to 140 days after flowering. The fruit bunch is harvested when the ridges on their surface changes from angular to round. The dried parts of flowers at the top of



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<ul style="list-style-type: none"> fruit drop off easily. The top most leaf starts drying as the bunch matures. Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	<ul style="list-style-type: none"> Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Passion Fruit	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. In dry spell apply mulch with grass. Trellises are in the north-south direction to minimize the shades during early morning and late evening. Young vines are trained to grow along the wire support of the trellises.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none"> A basal golden yellow coloration at the base is the sign of a ripe fruit. Fresh fruits destined for the local market are plucked when almost ripe. Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
Colocasia	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of



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)



	stage	KOLASIB	<ul style="list-style-type: none"> 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.
Cucurbitaceo us crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> ✚ Corm borer ✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. ✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.
		SERCHHIP	<ul style="list-style-type: none"> ✚ Fruit fly and ✚ 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.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none"> ✚ 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. ✚ Harvest all mature fruit.
		LAWNGTLAI	<ul style="list-style-type: none"> ✚ Okra leafroller ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/l of water.
Cowpea	Fruit initiation to harvest	SAIHA	<ul style="list-style-type: none"> ✚ 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



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)



			beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest	KOLASIB	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @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. ✚ Harvest all mature fruit.
		MAMIT	
		Shoot and fruit borer and	✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Kharif Rice	Transplanting stage	SERCHHIP	✚ Select disease free seedling with 3-5 leaf stage. ✚ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. ✚ 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.
		LUNGLEI	
Pre kharif Rice	Maximum tillering stage		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		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)



Maize	Tassling and silking stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> 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 turmeric	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the 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.
		Turmeric shoot borer	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> Remove unwanted plant from the base of the plant. Earthing up near base of the plant. Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
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)	<ul style="list-style-type: none"> FMD vaccine at 16 week and repeat every



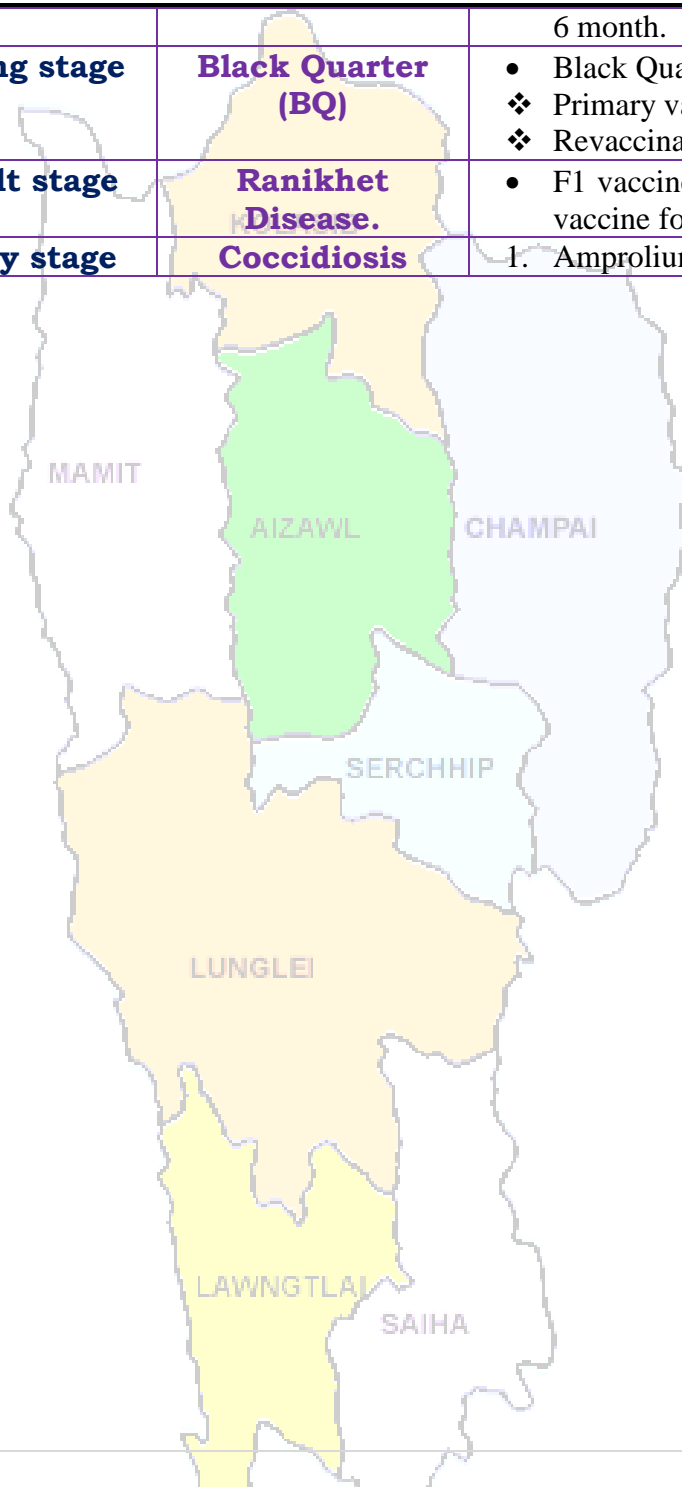
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none"> 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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/Mizo

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	5	3	3	5	5
Max Temp (oC)	29	29	29	30	30
Min Temp (oC)	21	21	21	21	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	99	99	98	98	99
Min RH (%)	77	77	76	75	76
Wind Speed (Kmph)	2	2	3	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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

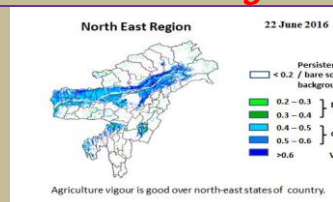
July 09, 2016 atanga July 13, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 18.4-19.6^oC leh a vawh lai berin 12.3-13.7^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 100% leh a hniam lai 65-99% ani ang. Ni 3 kal ta chung a ruah tla zatchu **45.50 mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30^oC a ni ang a. A vawh lai ber in 21-22^oC ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 75-77% 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: 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
Khasi Mandarin and acid lime	Transplant stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk 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)



		KOLASIB	<ul style="list-style-type: none"> Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		LUNGLEI	<ul style="list-style-type: none"> Comb weevil and stem weevil
Sapthei	Transplanting stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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. A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Lakhuihthei	A par lai	KOLASIB	<p>kumkhat chhungin pek tur.</p> <ul style="list-style-type: none"> 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 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.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAI	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> 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	LULU	<p>1. Nursery tihfai a tui tlem pek tur.</p> <p>2. Phunsawn hnuah tui tha taka pek tur.</p> <ul style="list-style-type: none"> 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	LAWNGTLAI	<ul style="list-style-type: none"> 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	SAIHA	<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>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.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice AIZAWL CHAMPAL	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ 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.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O hman tur. Vaimim chin hma in lei nen tihpawlh</p>



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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	KOLASIB	<ul style="list-style-type: none"> 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 taw kanga pek tur.
		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh 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)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> 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: Serchhip

Period: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/English

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	9	5	4	3	3
Max Temp (°C)	29	29	29	30	30
Min Temp (°C)	20	20	20	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	100	100	100	100	99
Min RH (%)	99	84	74	63	63
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (25.9mm)

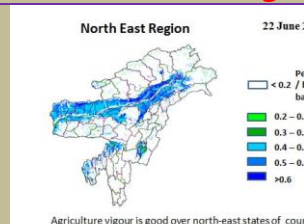
Weather summary of the past three days

Weather forecast valid from 09th June, 2016 To 13th June, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 20°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 63-99%. Wind direction would be to easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

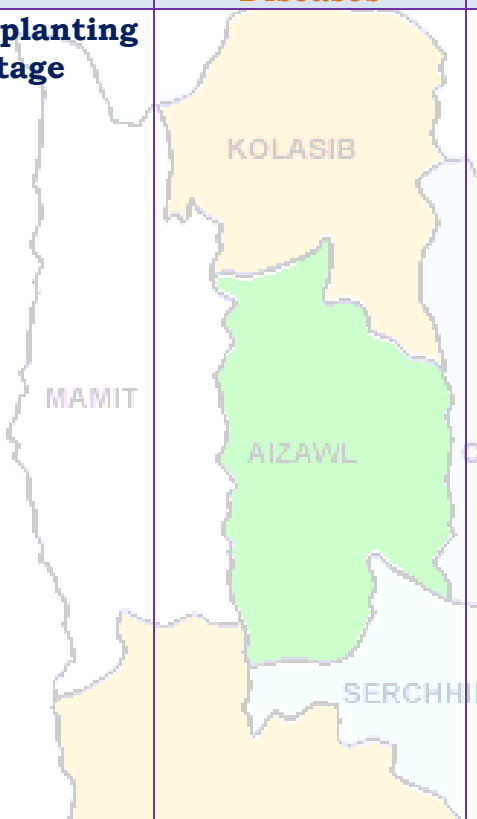
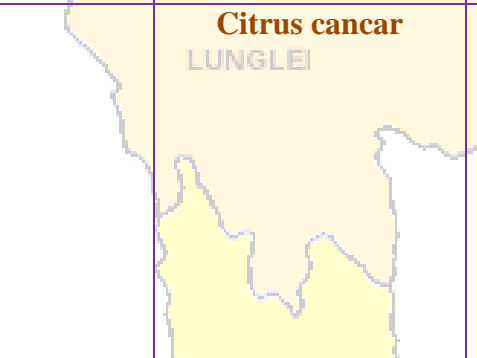
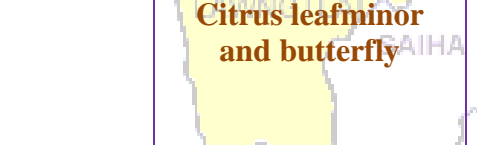
Weekly cumulative rainfall: 24.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
------------	-------	----------	--------------------------------------

Animal / Fisheries		practices/ Pest/ Diseases	husbandry advisories
Khasi Mandarin and acid lime	Transplanting stage		<ul style="list-style-type: none"> Citrus trees should be planted in a sunny and wind-protected area. In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar 	<ul style="list-style-type: none"> Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts. Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminior and butterfly 	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.



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)



Oil plam	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> 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	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> Clear 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.
		Banana Rhizome weevil LUNGLEI	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none"> Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Maturity stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Fruits usually mature in 120 to 140 days after flowering. The fruit bunch is harvested when the ridges on their surface changes from angular to round. The dried parts of flowers at the top of fruit drop off easily.



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<ul style="list-style-type: none"> The top most leaf starts drying as the bunch matures. Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	<ul style="list-style-type: none"> Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Passion Fruit	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. In dry spell apply mulch with grass. Trellises are in the north-south direction to minimize the shades during early morning and late evening. Young vines are trained to grow along the wire support of the trellises.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none"> A basal golden yellow coloration at the base is the sign of a ripe fruit. Fresh fruits destined for the local market are plucked when almost ripe. Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
Colocasia	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches.



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)



	stage	KOLASIB	<ul style="list-style-type: none"> ✚ 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	<ul style="list-style-type: none"> ✚ 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	MAMIT AIZAWL	<ul style="list-style-type: none"> ✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.
		Fruit fly and	<ul style="list-style-type: none"> ✚ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Vegetative to flowering stage	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> ✚ 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. ✚ Harvest all mature fruit.
		Okra leafroller	<ul style="list-style-type: none"> ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/l of water.
Cowpea	Fruit initiation to harvest	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ✚ 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



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)



			and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest	KOLASIB	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @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. ✚ Harvest all mature fruit.
		MAMIT	✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Shoot and fruit borer and Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Kharif Rice	Transplanting stage	SERCHHIP	✚ Select disease free seedling with 3-5 leaf stage. ✚ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. ✚ 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.
Pre kharif Rice	Maximum tillering stage	LUNGLEI	✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Maize	Tassling and	LAWINTELI SAIHA	✚ Remove unwanted plant near base of



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)



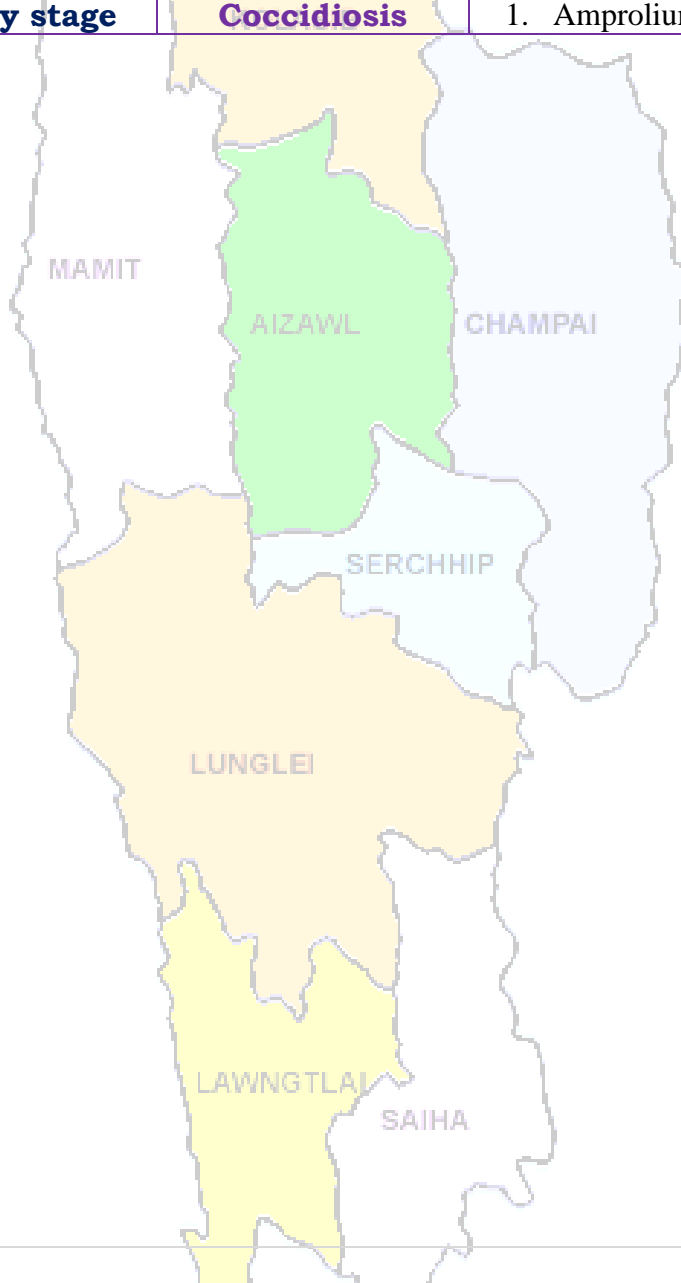
	silking stage		<p>the plant and cut dead branches.</p> <ul style="list-style-type: none"> ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> ✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> ✚ Remove unwanted plant near base of the 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.
		Turmeric shoot borer	<ul style="list-style-type: none"> ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> ✚ Remove unwanted plant from the base of the plant. ✚ Earthing up near base of the plant. ✚ Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
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)	<ul style="list-style-type: none"> • FMD vaccine at 16 week and repeat every 6 month.

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)

	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none"> 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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/Mizo

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	9	5	4	3	3
Max Temp (oC)	29	29	29	30	30
Min Temp (oC)	20	20	20	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	100	100	100	100	99
Min RH (%)	99	84	74	63	63
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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)

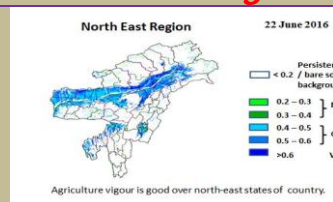
Ni thum kaltha sik leh sa dinhmun tlangpui

July 09, 2016 atanga July 13, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30°C a ni ang a.A vawh lai ber in 20°C ni tur ah beisei a ni.RH san lai berin 99-100% leh a hniam lai berin 63-99% 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: 24.0mm

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
Khasi Mandarin and acid lime	Transplant stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk 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)



			<ul style="list-style-type: none"> Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> 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.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Lakhuihthei	A par lai	KOLASIB	<p>kumkhat chhungin pek tur.</p> <ul style="list-style-type: none"> 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 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.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAI	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> 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	LULU	<p>1. Nursery tihfai a tui tlem pek tur.</p> <p>2. Phunsawn hnuah tui tha taka pek tur.</p> <ul style="list-style-type: none"> 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	LAWNGTLAI	<ul style="list-style-type: none"> 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	SAIHA	<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice AIZAWL CHAMPAI	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ 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.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O hman tur. Vaimim chin hma in lei nen tihpawlh</p>



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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	KOLASIB	<ul style="list-style-type: none"> 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 taw kanga pek tur.
		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh 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)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> 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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/Mizo

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	15	8	5	3	3
Max Temp (°C)	29	29	29	30	31
Min Temp (°C)	21	21	20	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	98	98
Min RH (%)	94	78	72	68	66
Wind Speed (Kmph)	2	2	2	2	3
*Wind Direction	E	E	E	E	E

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

STATUS OF 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

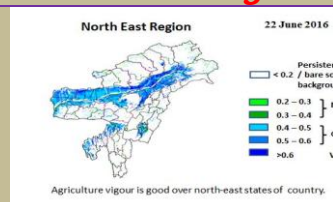
Khua a lum lai berin 23.3-24.1°C leh a vawh lai berin 19.0-21.1°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 97-100% leh a hniam lai 59-98% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **32.30 mm** ani. (Source- Mosdac.gov.in)

July 09, 2016 atanga July 13, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31°C a ni ang a. A vawh lai berin 21-22°C ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 68-94% 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: 34.0mm

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
Khasi Mandarin and acid lime	Transplant stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk 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)



		KOLASIB	<ul style="list-style-type: none"> Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		LUNGLAI	<ul style="list-style-type: none"> Comb weevil and stem weevil
Sapthei	Transplanting stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Lakhuihthei	A par lai	KOLASIB	<p>kumkhat chhungin pek tur.</p> <ul style="list-style-type: none"> 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 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.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAI	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> 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	LULU	<ol style="list-style-type: none"> Nursery tihfai a tui tlem pek tur. Phunsawn hnuah tui tha taka pek tur. <ul style="list-style-type: none"> 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	LAWNGTLAI	<ul style="list-style-type: none"> 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	SAIHA	<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice AIZAWL CHAMPAL	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ 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.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O hman tur. Vaimim chin hma in lei nen tihpawlh</p>



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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	KOLASIB	<ul style="list-style-type: none"> 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 taw kanga pek tur.
		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh 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)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> 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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/English

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	15	8	5	3	3
Max Temp (°C)	29	29	29	30	31
Min Temp (°C)	21	21	20	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	98	98
Min RH (%)	94	78	72	68	66
Wind Speed (Kmph)	2	2	2	2	3
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

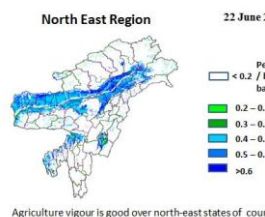
The temperature range for maximum and minimum were 23.3-24.1°C and 19.0-21.1°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 97-100% & minimum of 59-98%. Rainfall recorded for the past three days is **32.30 mm. (Source-mosdac.gov.in)**

Weather forecast valid from 09th June, 2016 To 13th 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 29-31°C and 21-22°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 68-94%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 34.0 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	Transplanting stage		<ul style="list-style-type: none"> Citrus trees should be planted in a sunny and wind-protected area. In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	<ul style="list-style-type: none"> Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts. Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminer and butterfly	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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)



Oil plam	Vegetative stage	KOLASIB	<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none"> 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	AIZAWL	<ul style="list-style-type: none"> Clear 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.
		Banana Rhizome weevil	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none"> Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Maturity stage	LAWNGTLAI	<ul style="list-style-type: none"> Fruits usually mature in 120 to 140 days after flowering. The fruit bunch is harvested when the ridges on their surface changes from angular to round. The dried parts of flowers at the top of



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<ul style="list-style-type: none"> fruit drop off easily. The top most leaf starts drying as the bunch matures. Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	<ul style="list-style-type: none"> Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Passion Fruit	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. In dry spell apply mulch with grass. Trellises are in the north-south direction to minimize the shades during early morning and late evening. Young vines are trained to grow along the wire support of the trellises.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none"> A basal golden yellow coloration at the base is the sign of a ripe fruit. Fresh fruits destined for the local market are plucked when almost ripe. Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
Colocasia	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of



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)



	stage	KOLASIB	<ul style="list-style-type: none"> 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.
Cucurbitaceo us crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> ✚ Corm borer ✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. ✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.
		SERCHHIP	<ul style="list-style-type: none"> ✚ Fruit fly and ✚ 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.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none"> ✚ 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. ✚ Harvest all mature fruit.
		LAWNGTLAI	<ul style="list-style-type: none"> ✚ Okra leafroller ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/l of water.
Cowpea	Fruit initiation to harvest	SAIHA	<ul style="list-style-type: none"> ✚ 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



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)



			beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest	KOLASIB	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @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. ✚ Harvest all mature fruit.
		MAMIT	
		Shoot and fruit borer and	✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage	SERCHHIP	✚ Select disease free seedling with 3-5 leaf stage. ✚ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✚ 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.
		LUNGLEI	
Pre kharif Rice	Maximum tillering stage		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
		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)



Maize	Tassling and silking stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> 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 turmeric	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the 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.
		Turmeric shoot borer	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> Remove unwanted plant from the base of the plant. Earthing up near base of the plant. Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
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)	<ul style="list-style-type: none"> FMD vaccine at 16 week and repeat every



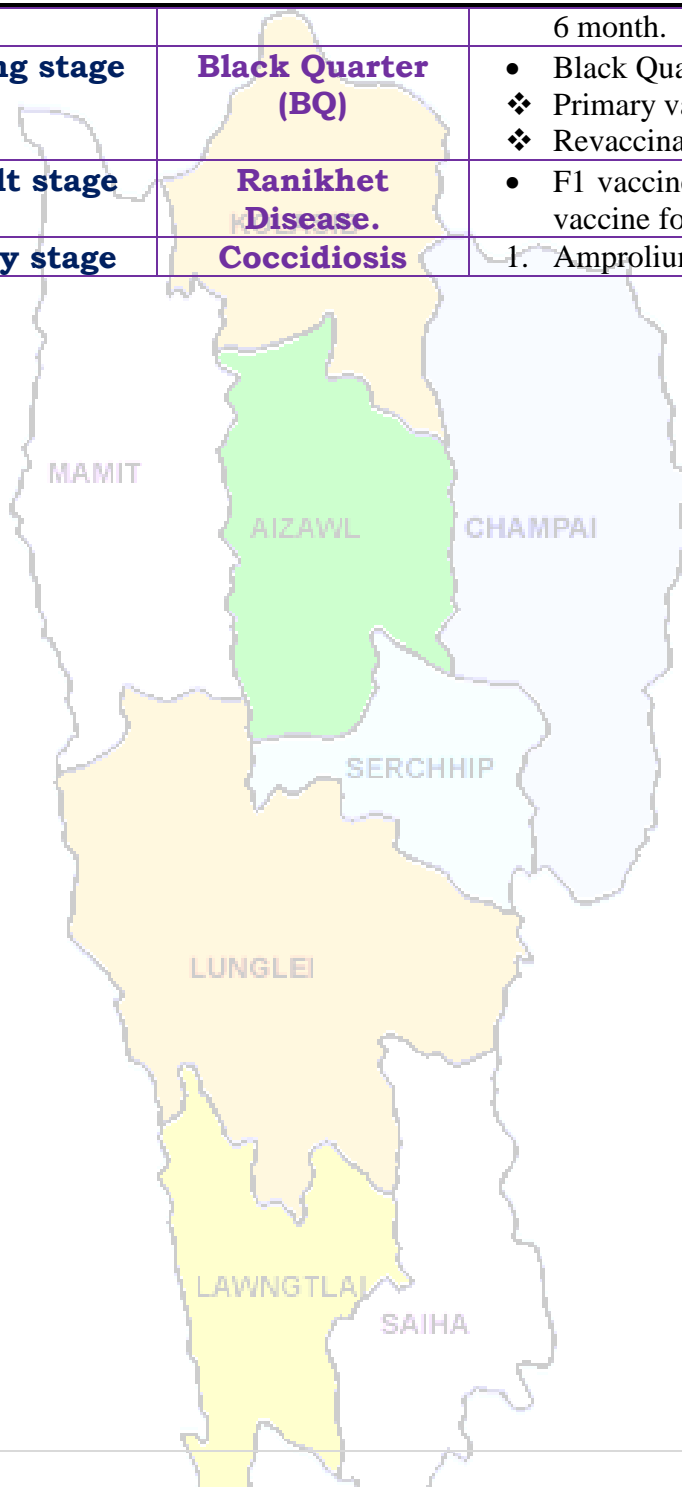
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none"> 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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/English

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	18	17	10	8	8
Max Temp (°C)	28	29	29	29	29
Min Temp (°C)	20	20	20	20	21
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	98	98	98	98
Min RH (%)	96	81	75	72	70
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

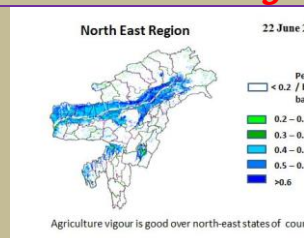
The temperature range for maximum and minimum were 26.3-28.2°C and 18.4-21.1°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 99-100% & minimum of 55-95%. Rainfall recorded for the past three days is **16.80 mm. (Source-mosdac.gov.in)**

Weather forecast valid from 09th June, 2016 To 13th 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 28-29°C and 20-21°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 70-96%. Wind direction would be easterly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 61.0 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	Transplanting stage		<ul style="list-style-type: none"> Citrus trees should be planted in a sunny and wind-protected area. In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	<ul style="list-style-type: none"> Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts. Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminer and butterfly	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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)



Oil plam	Vegetative stage	KOLASIB MAMIT	<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none"> 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	AIZAWL SERCHHIP	<ul style="list-style-type: none"> Clear 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.
		Banana Rhizome weevil LUNGLEI	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none"> Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Maturity stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Fruits usually mature in 120 to 140 days after flowering. The fruit bunch is harvested when the ridges on their surface changes from angular to round. The dried parts of flowers at the top of



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<ul style="list-style-type: none"> fruit drop off easily. The top most leaf starts drying as the bunch matures. Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	<ul style="list-style-type: none"> Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Passion Fruit	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. In dry spell apply mulch with grass. Trellises are in the north-south direction to minimize the shades during early morning and late evening. Young vines are trained to grow along the wire support of the trellises.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none"> A basal golden yellow coloration at the base is the sign of a ripe fruit. Fresh fruits destined for the local market are plucked when almost ripe. Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
Colocasia	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of



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)



	stage	KOLASIB	<ul style="list-style-type: none"> 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.
Cucurbitaceo us crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> ✚ Corm borer ✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. ✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.
		SERCHHIP	<ul style="list-style-type: none"> ✚ Fruit fly and ✚ 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.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none"> ✚ 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. ✚ Harvest all mature fruit.
		LAWNGTLAI	<ul style="list-style-type: none"> ✚ Okra leafroller ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/l of water.
Cowpea	Fruit initiation to harvest	SAIHA	<ul style="list-style-type: none"> ✚ 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



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)



			beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest	KOLASIB	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @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. ✚ Harvest all mature fruit.
		MAMIT	
		Shoot and fruit borer and	✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage	SERCHHIP	✚ Select disease free seedling with 3-5 leaf stage. ✚ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✚ 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.
Pre kharif Rice	Maximum tillering stage	LUNGLEI	✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
		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)



Maize	Tassling and silking stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> 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 turmeric	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the 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.
		Turmeric shoot borer	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> Remove unwanted plant from the base of the plant. Earthing up near base of the plant. Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
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)	<ul style="list-style-type: none"> FMD vaccine at 16 week and repeat every



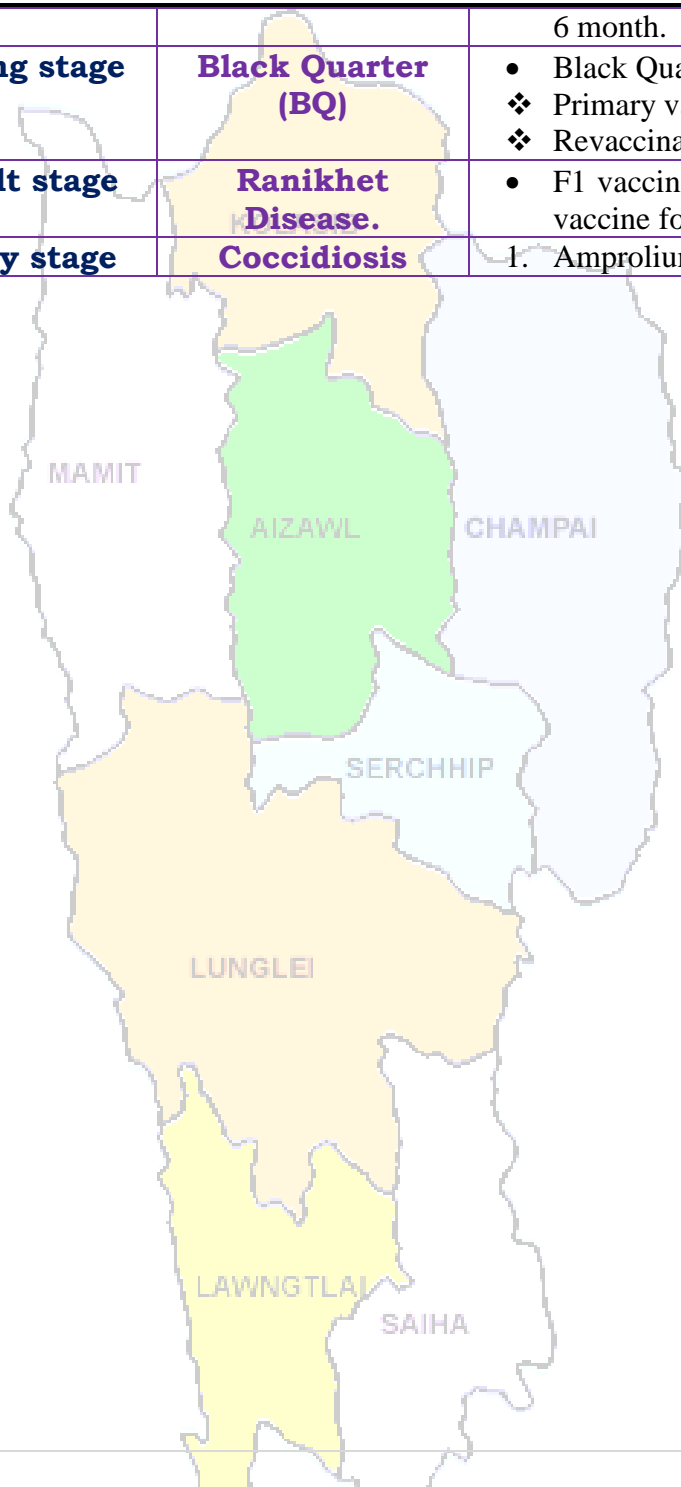
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none"> • 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: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/Mizo

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	18	17	10	8	8
Max Temp (°C)	28	29	29	29	29
Min Temp (°C)	20	20	20	20	21
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	98	98	98	98
Min RH (%)	96	81	75	72	70
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	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

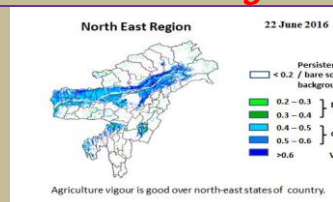
July 09, 2016 atanga July 13, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 26.3-28.2°C leh a vawh lai berin 18.4-21.1°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 99-100% leh a hniam lai 55-95% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **16.80 mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai ber in 20-21°C ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 70-96% 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: 61.0mm

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
Khasi Mandarin and acid lime	Transplant stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk 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)



			<ul style="list-style-type: none"> Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> 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.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Lakhuihthei	A par lai	KOLASIB	<p>kumkhat chhungin pek tur.</p> <ul style="list-style-type: none"> 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 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.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAI	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> 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	LULU	<p>1. Nursery tihfai a tui tlem pek tur.</p> <p>2. Phunsawn hnuah tui tha taka pek tur.</p> <ul style="list-style-type: none"> 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	LAWNGTLAI	<ul style="list-style-type: none"> 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	SAIHA	<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin lei tur.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice AIZAWL CHAMPAL	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ 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.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O hman tur. Vaimim chin hma in lei nen tihpawlh</p>



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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	KOLASIB	<ul style="list-style-type: none"> 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 taw kanga pek tur.
		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh 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)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> 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: Kolasib

Period: 09 July - 13 July, 2016

Bulletin No: - 617/2016/ Bulletin/English

Date of issue: 08th July, 2016

Parameters	09.07.2016	10.07.2016	11.07.2016	12.07.2016	13.07.2016
Rainfall (mm)	18	10	8	8	7
Max Temp (°C)	31	31	31	31	32
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	97	98
Min RH (%)	95	75	70	69	66
Wind Speed (Kmph)	2	2	2	2	3
*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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

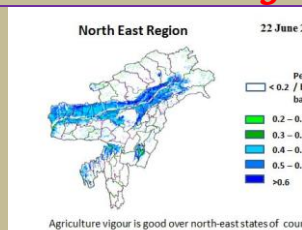
The temperature range for maximum and minimum were 26.0°C and 22.5-23.3°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 99-100% & minimum of 64-94%. Rainfall recorded for the past three days is **50.00 mm. (Source-mosdac.gov.in)**

Weather forecast valid from 09th June, 2016 To 13th 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 31-32°C and 23°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 66-95%. 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: 51.0 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	Transplanting stage		<ul style="list-style-type: none"> Citrus trees should be planted in a sunny and wind-protected area. In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	<ul style="list-style-type: none"> Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts. Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminer and butterfly	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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)



Oil plam	Vegetative stage	KOLASIB	<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none"> ✚ 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	AIZAWL	<ul style="list-style-type: none"> ✚ Clear 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.
		Banana Rhizome weevil	<ul style="list-style-type: none"> ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none"> ✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Maturity stage	LAWNGTLAI	<ul style="list-style-type: none"> ✚ Fruits usually mature in 120 to 140 days after flowering. ✚ The fruit bunch is harvested when the ridges on their surface changes from angular to round. ✚ The dried parts of flowers at the top of



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<ul style="list-style-type: none"> fruit drop off easily. The top most leaf starts drying as the bunch matures. Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	<ul style="list-style-type: none"> Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Passion Fruit	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. In dry spell apply mulch with grass. Trellises are in the north-south direction to minimize the shades during early morning and late evening. Young vines are trained to grow along the wire support of the trellises.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none"> A basal golden yellow coloration at the base is the sign of a ripe fruit. Fresh fruits destined for the local market are plucked when almost ripe. Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
Colocasia	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of



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)



	stage	KOLASIB	<ul style="list-style-type: none"> 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.
Cucurbitaceo us crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> Corm borer Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application Weeding can be done by hoeing as and when necessary. Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. Harvest all mature fruit.
		SERCHHIP	<ul style="list-style-type: none"> Fruit fly and 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.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none"> 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. Harvest all mature fruit.
		LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Okra leafroller Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/l of water.
Cowpea	Fruit initiation to harvest		<ul style="list-style-type: none"> 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



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)



			beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest	KOLASIB	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @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. ✚ Harvest all mature fruit.
		MAMIT	
		Shoot and fruit borer and	✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage	SERCHHIP	✚ Select disease free seedling with 3-5 leaf stage. ✚ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. ✚ 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.
		LUNGLEI	
Pre kharif Rice	Maximum tillering stage		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
		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)



Maize	Tassling and silking stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> 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 turmeric	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the 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.
		Turmeric shoot borer	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> Remove unwanted plant from the base of the plant. Earthing up near base of the plant. Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
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)	<ul style="list-style-type: none"> FMD vaccine at 16 week and repeat every



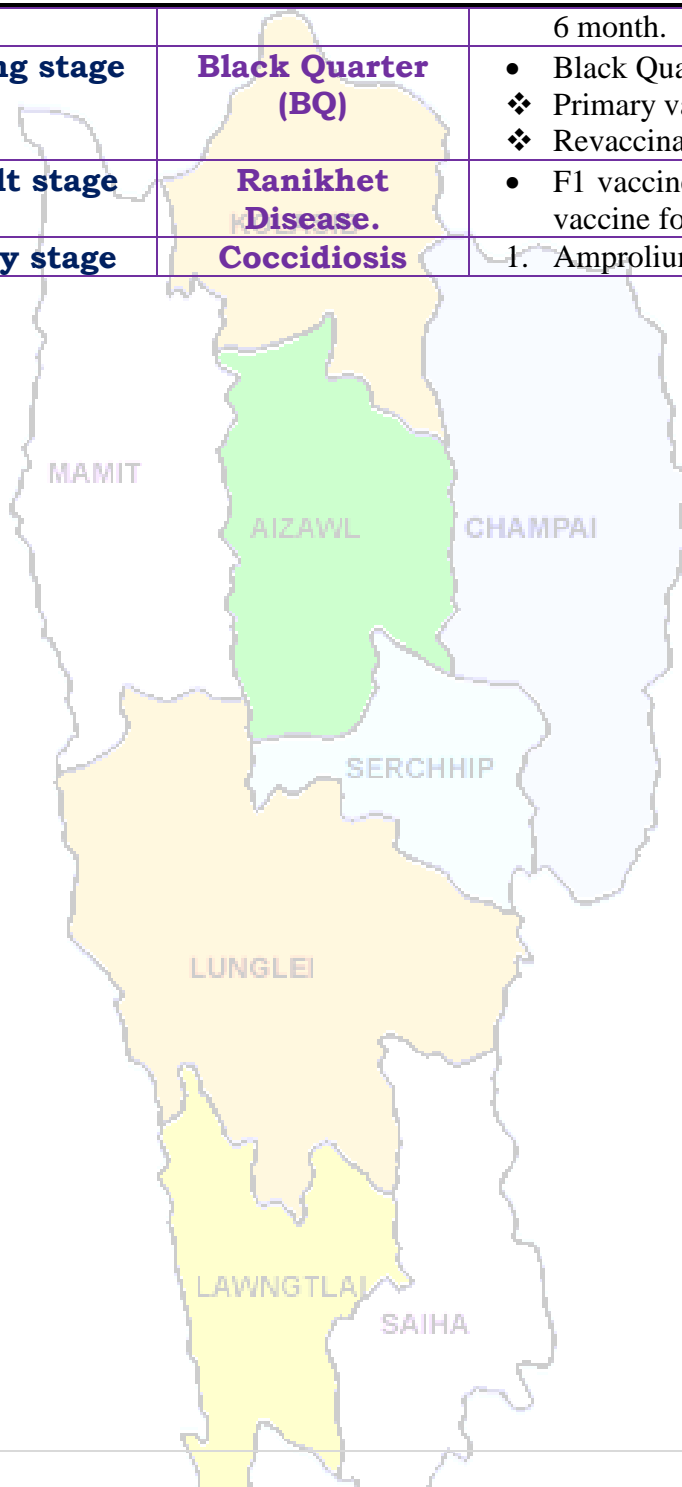
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none"> • 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