

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: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	MAIL O. CID	0	0	0
Max Temp (oC)	26	26	25	25	25
Min Temp (oC)	4	3	2	2	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	97	98	96	96
Min RH (%)	38	33	29	28	34
Wind Speed (KmpH)	3	3	4	6	6
*Wind Direction	S E LANT	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- November 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm

Serchhip-0.00mm Lawngtalia-0.00mm

Lunglei-0.00mm

Chhimtuipui-0.00mm

Weather summary of the past three days

The temperature range for maximum and minimum were 21.4-23.6°C and 9.2-15.6°C respectively. Clean sky was observed. Wind direction is easterly. Maximum RH observed 54-66% & minimum of 17-27%. Rainfall recorded for the past three days is **00.0mm.**

Weather-forecast valid from 10th December, 2014 To 14th December, 2014.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-26°C and 2-4°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 28-38%. Wind direction would be easterly with the wind speed of 3-6 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

		3		
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories	
Khasi Mandarin	Vegetative stage	Canker LAWNGTLAN SAIHA	 Prune the diseased and dead twigs. Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water. 	

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			• Excess water removes from the base of the plant.
Banana	Vegetative/		Remove water sucker, keep 1 or 2 plants in a
	harvesting	1	single place. ✓ Remove sword sucker and use it as new
		KOLASIB	planting material.
	- (NOLKOID C	Provide irrigation to the base of the plant.
)	W/S	✓ Fertilizer application in split dose of
	5		recommended dose.
	7	5000	✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage) S.J.	Clean the vicinity of plants by weeding and
Тіпсирріс) MAMIT		loosen up the soil.
	5	AIZAVIL	o Remove slips and use it as a new planting
)	A THE STATE OF	material.
)	3	o Sucker dipping treatment with Bavistin @
	1	1 1	3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and
) 6		insect.
))	-	 Weeding and intercultural operation.
		SERCHHI	
Cucurbits	Vegetative stage	V (-)	Land is ploughed to a fine tilth and pits of
			60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m,
	J.		2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for
		LUNGLEI	pumpkin, bottle gourd cucumber
	5	HALLANDER.	respectively. Well rotten FYM should be
		23	applied in pits and filled with top soil up to
	-	A	3/4th height and 2-3 seeds will be sown in each pit.
			☐ In case of chow-chow, fruit are planted
		8 1 3 8 3	with broad end downwards, 2/3rd portion
		1 2	below soil at a spacing of 3.5 x 2.0 m.
		1 manuary marsh	4 Polythene nursery raising can be done/
		Damping off and IA	initiate ✓ Seed treatment with thiram 3g/kg seed or
		Blight	Trichoderma viride 4g+ metalaxyl 4g
		8	(Apron)/ kg seed

2 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
Brinjal	Fruiting stage	3	Weeding near the plant
			❖ Fertilizer application in split dose of
		KOLASIB	recommended dose.
			 Provide irrigation to the plant.
)	Disease:	 Seed treatment with captan, thiram or
	5	Damping off-	chlorothalonil will effectively control this
		Care L	disease.
	1	Pest:	 Sulfur fungicides can be used to control
	- E	Mites and hoppers-	this pest.
Cowpea	Fruiting stage).	Trilling into bower structure.
	5	AIZAWL C	Weeding near the plant.
		Cumming 1	♣ Draining of excess water and preparation
			mound near the base.
	1	Scab and leaf blight	✓ Use of resistant varieties.
		disease	
Early Cole crop	Vegetative stage	Card formation stage	Application of Nitrogenous fertilizer urea
))		in card formation stage.
		SERCHHI	❖ Provide irrigation to the plant.
		Value of the second	Weeding near the plant.
	\	Damping off	✓ Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed
		LUNGLEI	✓ Prenching 1% Bordeaux mixture or 2 g
	3	manus et e e e e	captan or 3 copper oxychloride/ lt of water
		CV.	at 10-15 DAS are effective.
	5	Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m²
		3	in nursery is quite effective.
Mustard and	Flowering stage	(5 A)	• Weeding in the toria plot.
toria			o Provide irrigation in the field.
		1 2	• Top dressing with urea if available or apply
			cow dung.
Pea	Flowering Stage	LAWNGTLAND	✓ Weeding in the pea plot.
		SAIHA	✓ Provide irrigation in the field.
		Aphid	o In case of aphid infestation apply
		The state of	Imidachloprid 1.5ml/lt of water.
		A R	

3 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant
			❖ Fertilizer application in split dose of
		A CONTRACTOR	recommended dose.
	7.7	1	 Provide irrigation to the plant.
) \	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		KOLASIB	Trichoderma viride 4g+ metalaxyl 4g
	1		(Apron)/ kg seed
)	(A)	✓ Drenching 1% Bordeaux mixture or 2 g
	5	2 1	captan or 3 copper oxychloride/ lt of water
	(Version L	at 10-15 DAS are effective.
	1	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
		blotch	water or Bavistin @ 1g/litre of water, 2-3
	7 MAMIT	1	sprayings should be given forthnightly
	5	AIZAWL C	intervals.
		A	o Spraying of Blitox @ 3 g/l of water was
			Toutiu effective against leaf spot.
Rice	Harvesting stage	3 86	✓ Harvest rice crop
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 3 15	✓ Cut residue 20 cm from the base.
			✓ Open the furrow with the help of furrow
	12	acres and the	opener.
		SERCHHI	Place FYM and fertilizer.
D: a	All stores	Porcine	✓ Place the seed and cover by soil.1. Culling of positive pigs or piglets.
Pig	All stages	Reproductive	1. Culling of positive pigs of piglets.
		Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	Tiddie Stage	Dwine icver.	months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every 6
	in age group	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	Tours suge	(DV)	❖ Primary vaccination 6 month or above
		1 2	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
J		LAWNGTLAL	vaccine for adult birds.
	Early stage	Coccidiosis	Amprolium or coccidiostat
		COCCIONIO	

4 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



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	13	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	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	4	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	ŀ	Farm manager (T-6)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury	\$ 1	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	'n	Research Associate (Mizo	mamamralte@yahoo.com
	1	language Translator)	7

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@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	vvl9@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

LAWNGTLAL

SAIHA

5 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtalai Period: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	V 0 0 0 0	0	0	0
Max Temp (oC)	26	27	26	26	27
Min Temp (oC)	6	6	6	5	6
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	97	96	95	94	94
Min RH (%)	29	27	25	24	22
Wind Speed (KmpH)	6	4	8	8	7
*Wind Direction	S Englis	N-E	N-E	E	E

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

STATUS OF MONSOON- November 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm

Serchhip-0.00mm Lawngtalia-0.00mm

Lunglei-0.00mm

Chhimtuipui-0.00mm

Weather summary of the past	
three days	

Weather-forecast valid from 10th December, 2014 To 14th December, 2014.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-27°C and 5-6°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 22-29%. Wind direction would be northeasterly with the wind speed of 4-8 km per hour. Clear sky will prevail during the next five days.

We	eklv	cumul	lative	rain	fall:	0.00	mm
770		Culling	uiirc	I WIII	uu.	$\mathbf{v}\mathbf{v}_{\bullet}\mathbf{v}$	

Main Crop/ Animal /Fisheries	Stage	Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi	Vegetative stage	Canker	 Prune the diseased and dead twigs.
Mandarin		LAWNGTLAL	 Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			• Excess water removes from the base of the plant.
Banana	Vegetative/		Remove water sucker, keep 1 or 2 plants in a
	harvesting	1	single place. ✓ Remove sword sucker and use it as new
		KOLASIB (_	planting material.
	(I. (Provide irrigation to the base of the plant.
	("3 4 /	✓ Fertilizer application in split dose of recommended dose.
	7		✓ Harvest fruits when the flower tips of the
	1		fruit dehiscent.
Pineapple	Vegetative stage		o Clean the vicinity of plants by weeding and
	Z MAMIT	1	loosen up the soil. Remove slips and use it as a new planting
	3	AIZAVVL C	material.
	\	1	o Sucker dipping treatment with Bavistin @
	, l	1 00	3g + Chloropyriphos @ 1 g/lt of water to
) &	7 3 3	protect against soil borne disease and insect.
))		Weeding and intercultural operation.
		SERCHHI	
Cucurbits	Vegetative stage	V	Land is ploughed to a fine tilth and pits of
	7		60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m,
			2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for
		LUNGLEI	pumpkin, bottle gourd cucumber
	}	matta secondo	respectively. Well rotten FYM should be
		5~	applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in
	==)	(A)	each pit.
		(la call	In case of chow-chow, fruit are planted
			with broad end downwards, 2/3rd portion
		1	below soil at a spacing of 3.5 x 2.0 m.
		LAWNGTLAL	Polythene nursery raising can be done/initiate
		Damping off and A	Seed treatment with thiram 3g/kg seed or
		Blig ht	Trichoderma viride 4g+ metalaxyl 4g
		12 ((Apron)/ kg seed

2 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
Brinjal	Fruiting stage	3	 Weeding near the plant
			❖ Fertilizer application in split dose of
		KOLASIB	recommended dose.
			 Provide irrigation to the plant.
)	Disease:	 Seed treatment with captan, thiram or
	\$	Damping off-	chlorothalonil will effectively control this
	1		disease.
	1	Pest:	 Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		Trilling into bower structure.
_	5	AIZAVVL	Weeding near the plant
		C MICHAIL	♣ Draining of excess water and preparation
	1	j)	mound near the base.
	1	Scab and leaf blight	✓ Use of resistant varieties.
		disease	
Early Cole crop	Vegetative stage	Card formation stage	Application of Nitrogenous fertilizer urea
_	3.7	L	in card formation stage.
		SERCHHI	❖ Provide irrigation to the plant.
		V	Weeding near the plant.
	\ \	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		. 0	Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed
	//	LUNGLEI	Drenching 1% Bordeaux mixture or 2 g
	3	ESTRUCEL	captan or 3 copper oxychloride/ lt of water
	1	~	at 10-15 DAS are effective.
	-	Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m²
			in nursery is quite effective.
Mustard and	Flowering stage	A A	Weeding in the toria plot.
toria	8 8		o Provide irrigation in the field.
) ~)	o Top dressing with urea if available or apply
			cow dung.
Pea	Flowering Stage	LAWNGTLAND	✓ Weeding in the pea plot.
	8 8 -	/ SAIHA	✓ Provide irrigation in the field.
		Aphid	o In case of aphid infestation apply
			Imidachloprid 1.5ml/lt of water.
		7 1	

3 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	 Weeding near the plant
			* Fertilizer application in split dose of
		for the same	recommended dose.
	- 7	/	 Provide irrigation to the plant.
) \	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		KOLASIB	Trichoderma viride 4g+ metalaxyl 4g
	- ((Apron)/ kg seed
)	(A/A)	✓ Drenching 1% Bordeaux mixture or 2 g
	5		captan or 3 copper oxychloride/ lt of water
	1		at 10-15 DAS are effective.
		Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	K	blotch	water or Bavistin @ 1g/litre of water, 2-3
	7 MAMIT		sprayings should be given forthnightly
	8	L'AIZAVIL 10	intervals.
			 Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage	(3	✓ Harvest rice crop
Rice	Hai vesting stage		✓ Cut residue 20 cm from the base.
) ~		✓ Open the furrow with the help of furrow
))		opener.
		SERCHHI	1
	1	V	✓ Place the seed and cover by soil.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	11
	-	Respiratory	3
		Syndrome (PRRS).	47
	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	• FMD vaccine at 16 week and repeat every 6
		Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
		1 63 4	Primary vaccination 6 month or above
Doy-14	A dult stars	Danikhat Disassa	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	
	Early stage	Coccidiosis	Amprolium or coccidiostat

4 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



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	1	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	1	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna		Farm manager (T-6)	ramakrishna iari@rediffmail.com
Mr. Samik Chowdhury	\$	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	4	Research Associate (Mizo	mamamralte@yahoo.com
		language Translator)	7

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@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	vvl9@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

LAWNGTLAL

SAIHA

5 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



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: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	MAIL O. CID	0	0	0
Max Temp (oC)	26	26	26	26	27
Min Temp (oC)	4	A 4	4	2	4
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Clear sky	Clear sky
Max RH (%)	99	98	98	98	98
Min RH (%)	30	25	22	20	22
Wind Speed (KmpH)	5	4	6	6	6
*Wind Direction	S E AALT	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- November 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm

Serchhip-0.00mm Lawngtalia-0.00mm

Lunglei-0.00mm

Chhimtuipui-0.00mm

Weather summary of the past	Wea
three days	

Weather-forecast valid from 10th December, 2014 To 14th December, 2014.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-27°C and 2-4°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 20-30%. Wind direction would be easterly with the wind speed of 4-6 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: (0.0	mm
-------------------------------	-----	----

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi	Vegetative stage	Canker	 Prune the diseased and dead twigs.
Mandarin		LAWNGTLAL	 Wound dressing with Bordeaux paste and
		PSAIHA	mulch with dry grass to conserve moisture
		SAIRA	and suppress the growth of weed.
			• For canker, spray streoptomycin 2g +
		1 3 1	copperoxycholoride 8 g /10 lt of water.

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			• Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	 ✓ Remove water sucker, keep 1 or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Provide irrigation to the base of the plant.
	}		 ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	AIZAWL	 Clean the vicinity of plants by weeding and loosen up the soil. Remove slips and use it as a new planting material.
		SERCHHI	 Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. Weeding and intercultural operation. Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI	Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber
	}	R	respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. In case of chow-chow, fruit are planted
		LAWNGTLAN	with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. Polythene nursery raising can be done/initiate
		Damping off and IA Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

2 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
Brinjal	Fruiting stage	3	 Weeding near the plant
			❖ Fertilizer application in split dose of
		KOLASIB	recommended dose.
			Provide irrigation to the plant.
)	Disease:	 Seed treatment with captan, thiram or
	5	Damping off-	chlorothalonil will effectively control this
			disease.
	1	Pest:	 Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		Trilling into bower structure.
_	\$	AIZAVVL	Weeding near the plant
		C MICHAIL	♣ Draining of excess water and preparation
	1	j)	mound near the base.
	1	Scab and leaf blight	✓ Use of resistant varieties.
		disease	
Early Cole crop	Vegetative stage	Card formation stage	Application of Nitrogenous fertilizer urea
_	3.7	L	in card formation stage.
		SERCHHI	❖ Provide irrigation to the plant.
		V	Weeding near the plant.
	<u></u>	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		. 0	Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed
	//	LUNGLEI	Drenching 1% Bordeaux mixture or 2 g
	3	ESTRUCEL	captan or 3 copper oxychloride/ lt of water
	1	~	at 10-15 DAS are effective.
	-	Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m²
			in nursery is quite effective.
Mustard and	Flowering stage	A A	Weeding in the toria plot.
toria	8 8		o Provide irrigation in the field.
) ~)	o Top dressing with urea if available or apply
			cow dung.
Pea	Flowering Stage	LAWNGTLAND	✓ Weeding in the pea plot.
	8 8 -	/ SAIHA	✓ Provide irrigation in the field.
		Aphid	o In case of aphid infestation apply
			Imidachloprid 1.5ml/lt of water.
		7 1	

3 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	 Weeding near the plant
	8	1. /	• Fertilizer application in split dose of
		The state of the s	recommended dose.
	()	/	 Provide irrigation to the plant.
) \	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		KOLASIB	Trichoderma viride 4g+ metalaxyl 4g
	4		(Apron)/ kg seed
)	(A/S)	✓ Drenching 1% Bordeaux mixture or 2 g
	5		captan or 3 copper oxychloride/ lt of water
		T. 0	at 10-15 DAS are effective.
		Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	Summer	blotch	water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given forthnightly
	/ MAMIT	1	intervals.
	3	(AIZAVIL)	o Spraying of Blitox @ 3 g/l of water was
			found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop
		1 585	✓ Cut residue 20 cm from the base.
	1 6		✓ Open the furrow with the help of furrow
))		opener.
		SERCHHI	✓ Place FYM and fertilizer.
		V	✓ Place the seed and cover by soil.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	Addit stage	Swine level.	months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every 6
	age ga au	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			 Primary vaccination 6 month or above
		- N	❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
		LAWNGTLAV	vaccine for adult birds.
	Early stage	Coccidiosis	Amprolium or coccidiostat

4 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



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	1	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	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna		Farm manager (T-6)	ramakrishna iari@rediffmail.com
Mr. Samik Chowdhury	Ś.	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	(:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	1	Research Associate (Mizo	mamamralte@yahoo.com
		language Translator)	(

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@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	vvl9@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

LAWNGTLAL

SAIHA

5 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



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: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	MAIL O. CITI	0	0	0
Max Temp (oC)	26	26	25	25	25
Min Temp (oC)	6	JA 5	4	4	5
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	98	97	96	97
Min RH (%)	43	38	35	33	37
Wind Speed (KmpH)	3	3	4	6	6
*Wind Direction) EARLY	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- November 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm

Serchhip-0.00mm Lawngtalia-0.00mm

Lunglei-0.00mm

Chhimtuipui-0.00mm

Weather summary of the past Weather forecast valid from 10 th Dec	
three days December, 2014.	

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-26⁰C and 4-6⁰C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 33-43%. Wind direction would be easterly with the wind speed of 3-6 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural / animal husbandry advisories
Khasi	Vegetative stage	Canker	• Prune the diseased and dead twigs.
Mandarin		LAWNGTLAL	 Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed.
		1 2 1	• For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			• Excess water removes from the base of the plant.
Banana	Vegetative/		✓ Remove water sucker, keep 1 or 2 plants in a
	harvesting	KOLASIB	single place. ✓ Remove sword sucker and use it as new planting material.
	5	Ly 5	✓ Provide irrigation to the base of the plant. ✓ Fertilizer application in split dose of
	}	£4 (recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage		o Clean the vicinity of plants by weeding and loosen up the soil.
	{	AIZAVIL	o Remove slips and use it as a new planting material.
	1		o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and
	35		insect. • Weeding and intercultural operation.
	£2.	SERCHHI	
Cucurbits	Vegetative stage	V	Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for
		LUNGLEI	pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be
	(~ ~	applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in
			each pit.
		175	In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion
		1 2 1	below soil at a spacing of 3.5 x 2.0 m.
		LAWNGTLAL	♣ Polythene nursery raising can be done/ initiate
		Damping off and A Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
			(Apion)/ kg secu

2 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
Brinjal	Fruiting stage	3	Weeding near the plant
			❖ Fertilizer application in split dose of
		KOLASIB	recommended dose.
			 Provide irrigation to the plant.
)	Disease:	 Seed treatment with captan, thiram or
	\$	Damping off-	chlorothalonil will effectively control this
	<u> </u>	Care L	disease.
	1	Pest:	 Sulfur fungicides can be used to control
	- E	Mites and hoppers-	this pest.
Cowpea	Fruiting stage	1	Trilling into bower structure.
	5	AIZAWL C	Weeding near the plant
		Cultural	♣ Draining of excess water and preparation
	\ \ \	1	mound near the base.
	1	Scab and leaf blight	✓ Use of resistant varieties.
		disease	
Early Cole crop	Vegetative stage	Card formation stage	Application of Nitrogenous fertilizer urea
		-	in card formation stage.
		SERCHHI	❖ Provide irrigation to the plant.
		V	Weeding near the plant.
	<u></u>	Damping off	✓ Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed
	1	LUNGLEI	✓ Drenching 1% Bordeaux mixture or 2 g
	>	HALL STEEL	captan or 3 copper oxychloride/ lt of water
	1	esc.	at 10-15 DAS are effective.
	-	Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m²
		3	in nursery is quite effective.
Mustard and	Flowering stage	9 8	Weeding in the toria plot.
toria	5 5		o Provide irrigation in the field.
		1 2	Top dressing with urea if available or apply
			cow dung.
Pea	Flowering Stage	LAWNGTLAN	✓ Weeding in the pea plot.
		J SAIHA	✓ Provide irrigation in the field.
		Aphid	o In case of aphid infestation apply
		1	Imidachloprid 1.5ml/lt of water.
		EL C	• • • • • • • • • • • • • • • • • • •

3 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	 Weeding near the plant
			❖ Fertilizer application in split dose of
		The state of	recommended dose.
	()	7	 Provide irrigation to the plant.
) \	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		KOLASIB	Trichoderma viride 4g+ metalaxyl 4g
	Į.		(Apron)/ kg seed
)	WA)	✓ Drenching 1% Bordeaux mixture or 2 g
	5		captan or 3 copper oxychloride/ lt of water
	1	Carried Land	at 10-15 DAS are effective.
		Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
		blotch	water or Bavistin @ 1g/litre of water, 2-3
	7 MAMIT	1	sprayings should be given forthnightly
	5	& AIZAWL TO	intervals.
			o Spraying of Blitox @ 3 g/l of water was
		1	found effective against leaf spot.
Rice	Harvesting stage	3	✓ Harvest rice crop
			✓ Cut residue 20 cm from the base.
	1		Open the furrow with the help of furrow
		SERCHHI	opener. ✓ Place FYM and fertilizer.
		O SERCHINI	✓ Place the seed and cover by soil.
Pig	All stages	Porcine	Culling of positive pigs or piglets.
1 1g	All stages	Reproductive	1. Culting of positive pigs of pigiets.
	J.	Respiratory	4
		Syndrome (PRRS).	2
	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	• FMD vaccine at 16 week and repeat every 6
		Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			❖ Primary vaccination 6 month or above
			Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
		LAWNGTLAV	vaccine for adult birds.
	Early stage	Coccidiosis	Amprolium or coccidiostat

4 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



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	1	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	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna		Farm manager (T-6)	ramakrishna iari@rediffmail.com
Mr. Samik Chowdhury	Ś.	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	(:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	1	Research Associate (Mizo	mamamralte@yahoo.com
		language Translator)	(

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@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	vvl9@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

LAWNGTLAL

SAIHA

5 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



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: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	vai0 ein	0	0	0
Max Temp (oC)	26	26	26	26	27
Min Temp (oC)	2	2	2	1	3
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	23	18	14	13	16
Wind Speed (KmpH)	5	4	6	7	6
*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- November 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm

Serchhip-0.00mm Lawngtalia-0.00mm

Lunglei-0.00mm

Chhimtuipui-0.00mm

Weather summary of the past	Weather forecast valid from 10 th December, 2014 To 14 th
three days	December, 2014.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-27⁰C and 1-3⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 13-23%. Wind direction would be easterly with the wind speed of 4-7 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		1 cst Diseases	nusbanui y auvisories
Khasi	Vegetative stage	Canker	 Prune the diseased and dead twigs.
Mandarin		LAWNGTLAL	 Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed.
		1211	• For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			• Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting		✓ Remove water sucker, keep 1 or 2 plants in a single place.
	nai vesting	KOLASIB	✓ Remove sword sucker and use it as new planting material.
	4	NOLKOID C	✓ Provide irrigation in the base.
	ζ	~2 1	✓ Fertilizer application in split dose of recommended dose.
	1	5 5	✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage		o Clean the vicinity of plants by weeding and loosen up the soil.
	{	AIZAVIL	 Remove slips and use it as a new planting material.
	\		o Sucker dipping treatment with Bavistin @
	· \	1 5%	3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and
	3 6		insect. • Weeding and intercultural operation.
	£2.	SERCHHI	
Cucurbits	Vegetative stage	V	Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are
	7		made at a spacing of 2.0-2.5x 2.0-2.5 m,
			2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber
	7	LUNGLEI	respectively. Well rotten FYM should be
		500	applied in pits and filled with top soil up to
		A V	3/4th height and 2-3 seeds will be sown in each pit.
		(6 ~)	In case of chow-chow, fruit are planted
		(() 7	with broad end downwards, 2/3rd portion
		f 7	below soil at a spacing of 3.5 x 2.0 m. Polythene nursery raising can be done/
		LAWNGTLAN	initiate
		Damping off and	Seed treatment with thiram 3g/kg seed or
		Blight	Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
	J	100	1 / C

2 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
		for the second	at 10-15 DAS are effective.
Brinjal	Fruiting stage	3	 Weeding near the plant
			❖ Fertilizer application in split dose of
	250	KOLASIB	recommended dose.
		(Provide irrigation if require.
	1	Disease:	o Seed treatment with captan, thiram or
	5	Damping off-	chlorothalonil will effectively control this
			disease.
		Pest:	Sulfur fungicides can be used to control
	D 44 1 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Mites and hoppers-	this pest.
Cowpea	Fruiting stage	4	Trilling into bower structure.
	7	AIZAVIL (C	Weeding near the plant
			♣ Draining of excess water and preparation
		Cook and loof blight	mound near the base.
	1	Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	Application of Nitrogenous fertilizer urea
	12		in card formation stage.
		SERCHHI	3
		Mariles, and a second	• Weeding near the plant.
		Damping off	Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed
		LUNGLEI	Drenching 1% Bordeaux mixture or 2 g
	1		captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustand savefly	
	-	Mustard sawfly	Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and	Flowering stage		• Weeding in the toria plot.
toria	Flowering stage		o Provide irrigation in the field.
wiia) 5 Y	o Top dressing with urea if available or apply
			cow dung.
Pea	Flowering Stage	LAWNGTLAU	✓ Weeding in the pea plot.
	- 10 11 or mg bugs	F SAIHA	✓ Provide irrigation in the field.
		Aphid	o In case of aphid infestation apply
		- Park	Imidachloprid 1.5ml/lt of water.
		200	1

3 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant
			❖ Fertilizer application in split dose of
		A CONTRACTOR	recommended dose.
	7.7	1	Provide irrigation in the plant.
) \	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		KOLASIB	Trichoderma viride 4g+ metalaxyl 4g
	- t		(Apron)/ kg seed
)	(A)	✓ Drenching 1% Bordeaux mixture or 2 g
	5	2 1	captan or 3 copper oxychloride/ lt of water
	(Version L	at 10-15 DAS are effective.
	1	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
		blotch	water or Bavistin @ 1g/litre of water, 2-3
	7 MAMIT	1	sprayings should be given forthnightly
	5	AIZAWL C	intervals.
		A	o Spraying of Blitox @ 3 g/l of water was
			Toutiu effective against leaf spot.
Rice	Harvesting stage	3 86	✓ Harvest rice crop
	\ \ \	1 3 15	✓ Cut residue 20 cm from the base.
			✓ Open the furrow with the help of furrow
	12	acres and the	opener.
		SERCHHI	Place FYM and fertilizer.
D: a	All stores	Porcine	✓ Place the seed and cover by soil.1. Culling of positive pigs or piglets.
Pig	All stages	Reproductive	1. Culling of positive pigs of piglets.
		Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	Tiddie Stage	Dwine icver.	months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every 6
	in age group	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	Touris stage	Zinch Quarter (BQ)	❖ Primary vaccination 6 month or above
		1 2	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
J		LAWNGTLAL	vaccine for adult birds.
	Early stage	Coccidiosis	Amprolium or coccidiostat
		COCCIONIO	

4 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



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	À	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	1	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	7	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna		Farm manager (T-6)	ramakrishna iari@rediffmail.com
Mr. Samik Chowdhury	Ġ,	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	ŀ	Research Associate (Mizo	mamamralte@yahoo.com
	1	language Translator)	7

Collaborating Department:

	_		
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@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	vvl9@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

LAWNGTLAL

SAIHA

5 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



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: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	KAI O CID	0	0	0
Max Temp (oC)	26	26	25	25	25
Min Temp (oC)	2	J. 1	0	1	3
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Clear sky	Clear sky
Max RH (%)	99	99	99	98	98
Min RH (%)	36	31	27	26	31
Wind Speed (KmpH)	3	2	3	6	5
*Wind Direction	S E 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- November 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm Champhai- 0.00 mm

Mamit-0.00 mm

Aizawl-0.00 mm

Serchhip-0.00mm

Lawngtalia-0.00mm

Lunglei-0.00mm

Chhimtuipui-0.00mm

Weather summary of the	past
three days	

Weather forecast valid from 10th December, 2014 To 14th December, 2014.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-26^oC and 0-3^oC. Maximum relative humidity is expected in the range of 98-99% and minimum may from 26-36%. Wind direction would be easterly with the wind speed of 2-6 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker LAWNGTLAL SAIHA	 Prune the diseased and dead twigs. Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			• Excess water removes from the base of the plant.
Banana	Vegetative/		✓ Remove water sucker, keep 1 or 2 plants in a
	harvesting	KOLASIB	single place. ✓ Remove sword sucker and use it as new planting material.
	4	NOLKOID C	✓ Provide irrigation to the base. ✓ Fertilizer application in split dose of
	ζ		recommended dose.
	1	3 5	✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage		o Clean the vicinity of plants by weeding and loosen up the soil.
	{	AIZAVIL	o Remove slips and use it as a new planting material.
	\	{ }	o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to
	1	()	protect against soil borne disease and
	15		insect.Weeding and intercultural operation.
Cucurbits	Vegetative stage	SERCHHI	 Provide irrigation to the plant. Land is ploughed to a fine tilth and pits of
	3		60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m,
	Į.		2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for
	3	LUNGLEI	pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be
	1	n 8~	applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in
		13	each pit. In case of chow-chow, fruit are planted
		175	with broad end downwards, 2/3rd portion
		1 3	below soil at a spacing of 3.5 x 2.0 m. Polythene nursery raising can be done
		LAWNGTLAL	initiate
		Damping off and A Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

2 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
Brinjal	Fruiting stage	3	 Weeding near the plant
			❖ Fertilizer application in split dose of
		KOLASIB	recommended dose.
			Provide irrigation in the plant.
)	Disease:	 Seed treatment with captan, thiram or
	5	Damping off-	chlorothalonil will effectively control this
			disease.
	1	Pest:	 Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		Trilling into bower structure.
_	\$	AIZAWL	Weeding near the plant
		C MICHAIL	♣ Draining of excess water and preparation
	1	j)	mound near the base.
	1	Scab and leaf blight	✓ Use of resistant varieties.
		disease	
Early Cole crop	Vegetative stage	Card formation stage	Application of Nitrogenous fertilizer urea
_	3.7	L	in card formation stage.
		SERCHHI	❖ Provide irrigation to the plant.
		V	Weeding near the plant.
	<u></u>	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		. 0	Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed
	/	LUNGLEI	Drenching 1% Bordeaux mixture or 2 g
		5-50 00 5-5-1	captan or 3 copper oxychloride/ lt of water
	1	~	at 10-15 DAS are effective.
	-	Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m²
			in nursery is quite effective.
Mustard and	Flowering stage	Fi A	Weeding in the toria plot.
toria	8 8		o Provide irrigation in the field.
) ~)	Top dressing with urea if available or apply
			cow dung.
Pea	Flowering Stage	LAWNGTLAL	✓ Weeding in the pea plot.
	8 8	∫ SAIHA	✓ Provide irrigation in the field.
		Aphid	o In case of aphid infestation apply
		1	Imidachloprid 1.5ml/lt of water.
		D (1

3 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant
			❖ Fertilizer application in split dose of
		A CONTRACTOR	recommended dose.
	7.7	1	 Provide irrigation to the plant.
) \	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		KOLASIB	Trichoderma viride 4g+ metalaxyl 4g
	1		(Apron)/ kg seed
)	(A)	✓ Drenching 1% Bordeaux mixture or 2 g
	5	2 1	captan or 3 copper oxychloride/ lt of water
	(Version L	at 10-15 DAS are effective.
	1	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
		blotch	water or Bavistin @ 1g/litre of water, 2-3
	7 MAMIT	1	sprayings should be given forthnightly
	5	AIZAWL C	intervals.
		A	o Spraying of Blitox @ 3 g/l of water was
			Toutiu effective against leaf spot.
Rice	Harvesting stage	3 86	✓ Harvest rice crop
	\ \ \	1 3 15	✓ Cut residue 20 cm from the base.
			✓ Open the furrow with the help of furrow
	12	acres and the	opener.
		SERCHHI	Place FYM and fertilizer.
D: a	All stores	Porcine	✓ Place the seed and cover by soil.1. Culling of positive pigs or piglets.
Pig	All stages	Reproductive	1. Culling of positive pigs of piglets.
		Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	Tiddie Stage	Dwine icver.	months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every 6
	in age group	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	Tours suge	(DV)	❖ Primary vaccination 6 month or above
		1 2	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
J		LAWNGTLAL	vaccine for adult birds.
	Early stage	Coccidiosis	Amprolium or coccidiostat
		COCCIONIO	

4 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



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	À	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	1	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	7	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna		Farm manager (T-6)	ramakrishna iari@rediffmail.com
Mr. Samik Chowdhury	Ġ,	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	ŀ	Research Associate (Mizo	mamamralte@yahoo.com
	1	language Translator)	7

Collaborating Department:

	_		
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@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	vvl9@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

LAWNGTLAL

SAIHA

5 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



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: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	MAILO CID	0	0	0
Max Temp (oC)	25	25	25	24	25
Min Temp (oC)	4	2	1	1	3
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	35	30	26	27	29
Wind Speed (KmpH)	4	3	4	5	4
*Wind Direction	S-E	S-E	S-E	S	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- November 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm

Serchhip-0.00mm Lawngtalia-0.00mm

Lunglei-0.00mm

Chhimtuipui-0.00mm

Weather summary of the	past
three days	
tiff ce days	

Weather-forecast valid from 10th December, 2014 To 14th December, 2014.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 24-25°C and 1-4°C. Maximum relative humidity is expected in the range of 100% and minimum may from 26-35%. Wind direction would be southeasterly with the wind speed of 3-5 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal	i i	Pest/ Diseases	husbandry advisories
/Fisheries	3		
Khasi	Vegetative stage	Canker	 Prune the diseased and dead twigs.
Mandarin		LAWNGTLAL	Wound dressing with Bordeaux paste and
		LAWNGILAN	mulch with dry grass to conserve moisture
		SAINA	and suppress the growth of weed.
			For canker, spray streoptomycin 2g +
		12 1	copperoxycholoride 8 g /10 lt of water.

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			• Excess water removes from the base of the plant.
Banana	Vegetative/		✓ Remove water sucker, keep 1 or 2 plants in a
	harvesting	1	single place. ✓ Remove sword sucker and use it as new planting material.
	(KOLASIB	✓ Provide irrigation in the base.
	1	Wa a	✓ Fertilizer application in split dose of recommended dose.
	}		✓ Harvest fruits when the flower tips of the
			fruit dehiscent.
Pineapple	Vegetative stage		o Clean the vicinity of plants by weeding and loosen up the soil.
	\$	AIZAVIL C	o Remove slips and use it as a new planting material.
	1	1	o Sucker dipping treatment with Bavistin @
	Ž.	1 66	3g + Chloropyriphos @ 1 g/lt of water to
) .	V 3 5	protect against soil borne disease and insect.
))		Weeding and intercultural operation.
		SERCHHI	1
Cucurbits	Vegetative stage	V	Land is ploughed to a fine tilth and pits of
	4		60 cm diameter and 30-45cm depth are
			made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for
		NAMES EX	pumpkin, bottle gourd cucumber
	>	LUNGLEI	respectively. Well rotten FYM should be
	1	000	applied in pits and filled with top soil up to
	*	A (~	3/4th height and 2-3 seeds will be sown in
		3	each pit.
		7 01	In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion
		0 63 9	below soil at a spacing of 3.5 x 2.0 m.
		1	4 Polythene nursery raising can be done/
		LAWNGTLAN	initiate
		Damping off and IA	
		Blight	Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed

2 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
D		100	at 10-15 DAS are effective.
Brinjal	Fruiting stage	1	♦ Weeding near the plant
		T	❖ Fertilizer application in split dose of
		KOLASIB \	recommended dose.
		D'	❖ Provide irrigation in the field.
	7	Disease:	o Seed treatment with captan, thiram or
)	Damping off-	chlorothalonil will effectively control this
		7 5	disease.
		Pest:	o Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage	1	Trilling into bower structure.
	1	AIZAVIL C	Weeding near the plant
			♣ Draining of excess water and preparation
			mound near the base.
	1	Scab and leaf blight	✓ Use of resistant varieties.
E I C I	¥7 4 41 4	disease	A 1' CAT' CAT'
Early Cole crop	Vegetative stage	Card formation stage	Application of Nitrogenous fertilizer urea
		CEDEUM	in card formation stage.
		OCKCHINI	Provide irrigation in the plant.
		Di66	❖ Weeding near the plant.✓ Seed treatment with thiram 3g/kg seed or
		Damping off	12.000 12.000 11.
			Trichoderma viride 4g+ metalaxyl 4g
		00000000000000000000000000000000000000	(Apron)/ kg seed
		LUNGLEI	Drenching 1% Bordeaux mixture or 2 g
	1		captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m²
		Mustaru sawiiy	in nursery is quite effective.
Mustard and	Flowering stage	2	• Weeding in the toria plot.
toria	Flowering stage		o Provide irrigation in the field.
wiia) 53 4	o Toylac inigation in the field. Toylac inigation in the field. Toylac inigation in the field.
		1	cow dung.
Pea	Flowering Stage	LAWNGTLAN	✓ Weeding in the pea plot.
ı ca	Tiowering stage	/ SAIHA	✓ Provide irrigation in the field.
		Aphid	o In case of aphid infestation apply
		Apillu	Imidachloprid 1.5ml/lt of water.
			- innouemophic 1.5mi/it of water.

3 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	 Weeding near the plant
			* Fertilizer application in split dose of
		for the same	recommended dose.
	7.7	/ 3	Provide irrigation in the plant.
	1 1	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		KOLASIB	Trichoderma viride 4g+ metalaxyl 4g
	1,		(Apron)/ kg seed
)	(A/S)	✓ Drenching 1% Bordeaux mixture or 2 g
	5		captan or 3 copper oxychloride/ lt of water
	1		at 10-15 DAS are effective.
		Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	\$	blotch	water or Bavistin @ 1g/litre of water, 2-3
	J MAMIT	1	sprayings should be given forthnightly
	8	¿ AIZAWL 10	intervals.
			 Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop
Nice	Hai vesting stage	1	✓ Cut residue 20 cm from the base.
) &		✓ Open the furrow with the help of furrow
			opener.
		SERCHHI	
	Y	V~~	✓ Place the seed and cover by soil.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	1 /
		Respiratory	7
		Syndrome (PRRS).	4
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	27		months and yearly interval/6 month interval
Cattle	All age group 🦎	Foot and Mouth	• FMD vaccine at 16 week and repeat every 6
	1	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	3	1 63 4	◆ Primary vaccination 6 month or above
		Y	* Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
			vaccine for adult birds.
	Early stage	Coccidiosis Coccidiosis	1. Amprolium or coccidiostat

4 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



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	1	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	i	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna		Farm manager (T-6)	ramakrishna iari@rediffmail.com
Mr. Samik Chowdhury	Ś.	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	4	Research Associate (Mizo	mamamralte@yahoo.com
		language Translator)	7

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@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	vvl9@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

LAWNGTLAL

SAIHA

5 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Chhimtuipui Period: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	MAIL O. CID	0	0	0
Max Temp (oC)	26	27	27	27	28
Min Temp (oC)	3	<u>, </u>	4	3	4
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	20	18	18	16	14
Wind Speed (KmpH)	6	4	7	7	7
*Wind Direction	Englit	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- November 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm

Serchhip-0.00mm Lawngtalia-0.00mm

Lunglei-0.00mm

Chhimtuipui-0.00mm

Weather summary of the past	Weather forecast valid from 10 th December, 2014 To 14 th
three days	SERCHHIP December, 2014.
	There is no chance of rainfall during the next 5 day. The maximum an

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-28°C and 3-4°C. Maximum relative humidity is expected in the range of 99% and minimum may from 14-20%. Wind direction would be easterly with the wind speed of 4-7 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Cr Anima /Fisheri	l	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi	Vegetative stage	Canker	Prune the diseased and dead twigs.
Mandar	in	LAWNGTLAL	 Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. For canker, spray streoptomycin 2g +
			copperoxycholoride 8 g /10 lt of water.

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			• Excess water removes from the base of the plant.
Banana	Vegetative/		Remove water sucker, keep 1 or 2 plants in a
	harvesting	1	single place. ✓ Remove sword sucker and use it as new
		KOLASIB	planting material.
	1	NOLKOID C	✓ Provide irrigation to the base of the plant.
)	W/S	✓ Fertilizer application in split dose of
	5		recommended dose.
	7	5000	✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage) S.J.	Clean the vicinity of plants by weeding and
Тисирріс) MAMIT		loosen up the soil.
	5	AIZAVIL	o Remove slips and use it as a new planting
		C MILLIANS	material.
)	3	o Sucker dipping treatment with Bavistin @
	1	1 1	3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and
) 6		insect.
))	-	 Weeding and intercultural operation.
		SERCHHI	
Cucurbits	Vegetative stage	V (-)	Land is ploughed to a fine tilth and pits of
			60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m,
	J.		2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for
		LUNGLEI	pumpkin, bottle gourd cucumber
	5	HALLANDER.	respectively. Well rotten FYM should be
		23	applied in pits and filled with top soil up to
		A	3/4th height and 2-3 seeds will be sown in each pit.
	3		☐ In case of chow-chow, fruit are planted
		8 1 5 5 5	with broad end downwards, 2/3rd portion
		1 2	below soil at a spacing of 3.5 x 2.0 m.
		1 manuary marsh	4 Polythene nursery raising can be done/
		Damping off and IA	initiate ✓ Seed treatment with thiram 3g/kg seed or
		Blight	Trichoderma viride 4g+ metalaxyl 4g
		8	(Apron)/ kg seed

2 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
Brinjal	Fruiting stage	3	Weeding near the plant
			❖ Fertilizer application in split dose of
		KOLASIB	recommended dose.
			 Provide irrigation to the plant.
)	Disease:	 Seed treatment with captan, thiram or
	5	Damping off-	chlorothalonil will effectively control this
	1		disease.
	1	Pest:	 Sulfur fungicides can be used to control
	· ·	Mites and hoppers-	this pest.
Cowpea	Fruiting stage		Trilling into bower structure.
	\$	AIZAVVL	Weeding near the plant
		C MICHAIL TO	♣ Draining of excess water and preparation
	1	j)	mound near the base.
	1	Scab and leaf blight	✓ Use of resistant varieties.
		disease	
Early Cole crop	Vegetative stage	Card formation stage	Application of Nitrogenous fertilizer urea
_	3.7	L	in card formation stage.
		SERCHHI	❖ Provide irrigation to the plant.
		V	Weeding near the plant.
	<u></u>	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		. 0	Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed
	//	LUNGLEI	Drenching 1% Bordeaux mixture or 2 g
		ESTRUCELL	captan or 3 copper oxychloride/ lt of water
	1	~	at 10-15 DAS are effective.
	-	Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m²
			in nursery is quite effective.
Mustard and	Flowering stage	A A	Weeding in the toria plot.
toria	8 8		o Provide irrigation to the field.
) ~)	o Top dressing with urea if available or apply
			cow dung.
Pea	Flowering Stage	LAWNGTLAND	✓ Weeding to the pea plot.
	8 8 -	∫ SAIHA	✓ Provide irrigation in the field.
		Aphid	o In case of aphid infestation apply
			Imidachloprid 1.5ml/lt of water.
		7 1	

3 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	 Weeding near the plant
			❖ Fertilizer application in split dose of
			recommended dose.
	7.7	/ 3	Provide irrigation in the plant.
	1 1	Damping off	✓ Seed treatment with thiram 3g/kg seed or
		KOLASIB	Trichoderma viride 4g+ metalaxyl 4g
	1		(Apron)/ kg seed
)	(44)	✓ Drenching 1% Bordeaux mixture or 2 g
	5	2 1	captan or 3 copper oxychloride/ lt of water
	(The second second	at 10-15 DAS are effective.
	1	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	- E	blotch	water or Bavistin @ 1g/litre of water, 2-3
	7 MAMIT	1	sprayings should be given forthnightly
	5	AIZAWL C	intervals.
		A Linearity	o Spraying of Blitox @ 3 g/l of water was
			Toulid effective against leaf spot.
Rice	Harvesting stage	1 2	✓ Harvest rice crop
	\	1 3 1	✓ Cut residue 20 cm from the base.
	1 0		✓ Open the furrow with the help of furrow
	11		opener.
		SERCHHI	✓ Place FYM and fertilizer.
			✓ Place the seed and cover by soil.
Pig	All stage <mark>s</mark>	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	7
	A 7 7/	Syndrome (PRRS).	
	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	• FMD vaccine at 16 week and repeat every 6
	10	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	3	1 5 3	♦ Primary vaccination 6 month or above
_		Y Y	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
		LAWNGTLAN	vaccine for adult birds.
	Early stage	Coccidiosis	Amprolium or coccidiostat

4 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



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	À	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	1	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	7	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna		Farm manager (T-6)	ramakrishna iari@rediffmail.com
Mr. Samik Chowdhury	Ġ,	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	ŀ	Research Associate (Mizo	mamamralte@yahoo.com
	1	language Translator)	7

Collaborating Department:

	1		
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@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@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

LAWNGTLAL

SAIHA

5 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,