

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



1 | Page

District: Mamit

Period: 24-28 S	eptember, 2014
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Parameters	24-09-2014	25-09-2014	26-09-2014	27-09-2014	28-09-2014
Rainfall (mm)	12	June 3 com	4	0	4
Max Temp (oC)	30	29	27	31	31
Min Temp (oC)	21	21	18	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	73	72	80	55	57
Wind Speed (Kmp	H) 4	2	2	3	2
Wind Direction	S	S-W	S-E	S-E	E
	SOON- August 1-30, 2	1		1	/8.0mm
Kolasib- 372.1n	ım Champhai-	329.7mm M	amit-376.0 mm	Aizawl-37	78.0mm
(19.16)	35	(-28.00)	(-20.69)	(7.	·
Serchhip- 166.7 (-32.04	'mm Lawngtalia 4)	365.4 mm s Lu (-64.68)	inglei- 371.4 m (-16.55)	m Chhimtui	pui- 367.8 m (-32.04)
Serchhip- 166.7 (-32.04 Weather sumr	mm Lawngtalia	365.4 mm s Lu (-64.68)	inglei- 371.4 m	m Chhimtui 24 th September	pui- 367.8 m (-32.04)
Serchhip- 166.7 (-32.04 Weather sumr	mm Lawngtalia 4) nary of the past	365.4 mm s Lu (-64.68)	ast valid from (-16.55) (-16.5	Chhimtui 24th September er, 2014. Int rainfall during the es for the next 5 do elative humidity from 55-80%. With	ipui- 367.8 m (-32.04) r, 2014 To 28 he next 4 day. T lays may range is expected in ad direction wor
Serchhip- 166.7 (-32.04 Weather sumr	mm Lawngtalia 4) nary of the past	365.4 mm Lu (-64.68) Weather fored There is a chance of maximum and min 27-31°C and 18-2 range of 100% and be southeasterly weather with	ast valid from (-16.55) (-16.5	Chhimtui 24 th September er, 2014. At rainfall during t es for the next 5 d elative humidity from 55-80%. Win ed of 2-4 km per ne next five days.	ipui- 367.8 m (-32.04) r, 2014 To 28 he next 4 day. T lays may range is expected in ad direction wood r hour. Moder
Serchhip- 166.7 (-32.04 Weather sumr	mm Lawngtalia 4) nary of the past	365.4 mm Lu (-64.68) Weather fored There is a chance of maximum and min 27-31°C and 18-2 range of 100% and be southeasterly w cloudy weather with Cultural practic Pest/ Diseases	ast valid from (-16.55) (ast valid from Septemb of moderate to ligh imum temperatur (1°C. Maximum r d minimum may f vith the wind spe ll prevail during th Weekly cumulative ces/ Agrice	Chhimtui 24 th September er, 2014. At rainfall during t es for the next 5 d elative humidity from 55-80%. Win ed of 2-4 km per ne next five days.	pui- 367.8 m (-32.04) r, 2014 To 28 he next 4 day. T lays may range is expected in ad direction wo r hour. Moder n tural/ animal
Serchhip- 166.7 (-32.04 Weather sum three Main Crop/ Animal	mm Lawngtalia 4) nary of the past e days	365.4 mm Lu (-64.68) Weather fored There is a chance of maximum and min 27-31°C and 18-2 range of 100% and be southeasterly w cloudy weather with Cultural practic Pest/ Diseases	ast valid from (-16.55) (ast valid from Septemb of moderate to lightimum temperature (1°C. Maximum r d minimum may f vith the wind spe ll prevail during the Weekly cumulative (ses) Agrice	Chhimtui 24 th September er, 2014. At rainfall during t es for the next 5 d elative humidity rom 55-80%. Wir ed of 2-4 km per ne next five days.	pui- 367.8 m (-32.04) r, 2014 To 28 he next 4 day. T lays may range is expected in nd direction wo r hour. Moder n tural/ animal isories



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	5	KOLASIB	 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. Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	AIZAWIL	 ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from 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	SERCHH	 Clean the vicinity of plants by weeding and loosen up the soil. Remove slips and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	Nursery raising for offseason cucurbits.
	Ì	Damping off	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Vegetative stage	LAWNGTLAL SAIHA Disease:	 Weeding near the plant Fertilizer application in split dose of recommended dose. Draining of excess water and preparation mound near the base. Seed treatment with captan, thiram or
			2 P a g e



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		Domning off	chlorothalonil will effectively control this
		Damping off-	disease.
		Pest:	 Sulfur fungicides can be used to control
			-
0		Mites and hoppers-	this pest.
Cowpea	Vegetative stage	T	 Trilling into bower structure.
		KOLASIB	Weeding near the plant
	((. C	Draining of excess water and preparatio
		Why (mound near the base.
	5	Sca <mark>b and leaf blig</mark> ht	✓ Use of resistant varieties.
		disease	
Early Cole crop	Nursery stage	Land preparation	 Nursery preparation for cabbage,
	e Constantino	1	cauliflower, broccoli and knolkhol.
	7 MAMIT		Raised bed, nursery bed solarisation.
	5	LAIZAWIL 1	HAN HAND Bed should be 1m width and
		C Unediane :	conventional length.
		5	Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
	1		Line sowing of seeds (7-10cm)
	1	Damping off	\checkmark Seed treatment with thiram 3g/kg seed or
	2 0		Trichoderma viride 4g+ metalaxyl 4g
	() ()		(Apron)/ kg seed
	1	SERCHH	
	1	W-L	captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² i
	1		nursery is quite effective.
Ginger &	Vegetation stage	www.ester	✓ Weeding in turmeric and ginger field.
Turmeric	vegetation stage	LUNGLEI	in turnierte una ginger fiela.
Turmerie	- F	Leaf spot and leaf	• Spraying Dithane M-45 @ 2.5g/litre of
	L.	blotch	water or Bavistin @ 1g/litre of water, 2-
		Dioten	sprayings should be given forthnight
			intervals.
		27 001	• Spraying of Blitox @ 3 g/l of water wa
		A LA Y	
		Y I	found effective against leaf spot.
Maize	Flowering stage	LAWNGTLAN	✓ Weeding in maize plot
			✓ Topdressing with urea fertilizer.
		Pest: SAIHA	in car worth authage security, empp off and a
		Corn earworm	of the ear and any affected kernels. The res
		1 22 1	of should be fine to eat.
		R N	Y



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		0	- Crop rotation with leguminous crop.
		Birds	- Reflecting tape poly propylene metalli
	P		shine tape and the other silver that reflect
	67	1 2	sunlight causing flashing effect is effective
		1 3	in scaring birds.
	1	V Contraction of the	- Automatic acetylene exploders or bird
		KOLASIB	scaring gun that produce periodically lou
		In S	
D '		~ 1	noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require.
			✓ Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses.
	Section 2		Spraying of monocrotophos 20ml/10lt water
	7 MAMIT		or Imidacloprid 20ml/10lt water.
	5	Gundhi bug	Spray monocrotophos 36 WSC @ 1.5 ml/
		A second second	or endosulfan 35 EC @ 1.5 ml/ml
		5	Insecticide application should be done if the
	1		population reaches ETL of 1 nymph of
	1	1 353	adult/ hill.
		Leaf blast	Judicious application of nitrogenou
	3.3		fertilizer.
		SERCHHI	
	1		or edifenphos @ 1ml/lt when first sympton
			are notice.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
8	in suges	Reproductive	i culling of positive pigs of piglous.
		Respiratory	2
		Syndrome (PRRS).	E
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at
	Auun stage	Swille level.	months and yearly interval/6 month interva
Cattle		Foot and Mouth	· · ·
Cattle	All age group		• FMD vaccine at 16 week and repeat every
		Disease (FMD)) month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV).
		A A A	Primary vaccination 6 month or above
		A company of the	 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂
		C SAIHA	vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
	Early stage	Cocciuiosis	1. Ampionum of cocciulostat



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LAWNGTLAL SAIHA



ICAR RESEARCH COMPLEX FOR NEH REGION

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1 | Page

District: Lunglei

Period: 24-28 September, 2014

Parameters	24-09-2014	25-09-2014	26-09-2014	27-09-2014	28-09-2014
Rainfall (mm)	8	0	0	0	3
Max Temp (oC)	29	27	28	30	30
Min Temp (oC)	19	17	16	16	16
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	66	76	63	54	58
Wind Speed (Kmp	H) 2	2	2	2	2
Wind Direction	S-E	S	E	Е	E
STATUS OF MON	Southerly- S, South- SOON- August 1-30, 20				
Kolasib- 372.1m (19.16)		329.7mm Ma	amit-376.0 mm (-20.69)		' 8.0mm 33)
		(-64.68)	(-16.55)	16	(-32.04)
Weather sumn	nary of the past	in the second		24 th September	
	nary of the p <mark>ast</mark> e days	Weather forec	ast valid from Septemb	er, 2014.	r, 2014 To 28
	e days	Weather forec There is a chance of maximum and mir 27-30 ⁰ C and 19-2 range of 100% and be southeasterly	ast valid from Septemb of moderate to ligh nimum temperature 1°C. Maximum ray d minimum may f with the wind spo	er, 2014. At rainfall during the es for the next 5 des elative humidity is from 54-76%. Wir eed of 2 km per	r, 2014 To 28 he next 2 day. T lays may range f is expected in t ad direction wou
	e days	Weather forec There is a chance of maximum and mir 27-30 ⁰ C and 19-2 range of 100% and be southeasterly v cloudy weather wi	ast valid from Septemb of moderate to ligh nimum temperature 1°C. Maximum re d minimum may f with the wind spe ll prevail during th	er, 2014. At rainfall during the es for the next 5 de elative humidity is rom 54-76%. Wir eed of 2 km per he next five days.	r, 2014 To 28 he next 2 day. T lays may range f is expected in t ad direction wou hour. Modera
	e days	Weather forect There is a chance of maximum and mir 27-30 ⁰ C and 19-2 range of 100% and be southeasterly v cloudy weather wi Cultural practic Pest/ Diseases	ast valid from Septemb of moderate to ligh nimum temperature 1°C. Maximum re d minimum may f with the wind spe ll prevail during th Veekly cumulative ces/ Agrice	er, 2014. At rainfall during the es for the next 5 de elative humidity is rom 54-76%. Wir eed of 2 km per he next five days.	r, 2014 To 28 he next 2 day. T lays may range f is expected in t ind direction wou hour. Modera n tural/ animal
three Main Crop/ Animal	e days	Weather forect There is a chance of maximum and mir 27-30 ⁰ C and 19-2 range of 100% and be southeasterly v cloudy weather wi Cultural practic Pest/ Diseases	ast valid from Septemb of moderate to ligh nimum temperature 1°C. Maximum red d minimum may f with the wind spe ll prevail during the Veekly cumulative ces/ Agricu	er, 2014. At rainfall during the es for the next 5 de elative humidity is rom 54-76%. Wir eed of 2 km per he next five days. Erainfall: 11.0mm altural / Horticul	r, 2014 To 28 he next 2 day. T lays may range f is expected in t ind direction wou hour. Modera hour. Modera n tural/ animal sories



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	2	KOLASIB	 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. Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	AIZAWIL	 ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from 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	SERCHH	 Clean the vicinity of plants by weeding and loosen up the soil. Remove slips and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	Nursery raising for offseason cucurbits.
	Ì	Damping off	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Vegetative stage	LAWNGTLAL SAIHA Disease:	 Weeding near the plant Fertilizer application in split dose of recommended dose. Draining of excess water and preparation mound near the base. Seed treatment with captan, thiram or
			2 P a g e



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Cowpea	Vegetative stage Nursery stage	Damping off- Pest: Mites and hoppers- KOLASIB Scab and leaf blight disease Land preparation	 chlorothalonil will effectively control this disease. Sulfur fungicides can be used to control this pest. Trilling into bower structure. Weeding near the plant Draining of excess water and preparatio mound near the base. Use of resistant varieties. Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
	Nursery stage	Mites and hoppers- KOLASIB Scab and leaf blight disease Land preparation	 Sulfur fungicides can be used to control this pest. Trilling into bower structure. Weeding near the plant Draining of excess water and preparatio mound near the base. ✓ Use of resistant varieties. ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
	Nursery stage	Mites and hoppers- KOLASIB Scab and leaf blight disease Land preparation	 this pest. Trilling into bower structure. Weeding near the plant Draining of excess water and preparation mound near the base. ✓ Use of resistant varieties. ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
	Nursery stage	KOLASIB Scab and leaf blight disease Land preparation	 ↓ Trilling into bower structure. ↓ Weeding near the plant ↓ Draining of excess water and preparatio mound near the base. ✓ Use of resistant varieties. ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
	Nursery stage	Scab and leaf blight disease Land preparation	 ↓ Weeding near the plant ↓ Draining of excess water and preparation mound near the base. ✓ Use of resistant varieties. ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
Early Cole crop		Scab and leaf blight disease Land preparation	 Draining of excess water and preparation mound near the base. ✓ Use of resistant varieties. ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
Early Cole crop		disease Land preparation	 mound near the base. ✓ Use of resistant varieties. ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
Early Cole crop		disease Land preparation	 ✓ Use of resistant varieties. ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
Early Cole crop		disease Land preparation	 Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
Early Cole crop		Land preparation	cauliflower, broccoli and knolkhol.
Early Cole crop		$\langle \cdot \cdot \rangle$	cauliflower, broccoli and knolkhol.
	{ MAMIT	}	
	5		Raised bed, nursery bed solarisation.
		(AIZAWL I	HAN Bed should be 1m width and
		C menue	conventional length.
		5	Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
	10		Line sowing of seeds (7-10cm)
	1	Damping off	\checkmark Seed treatment with thiram 3g/kg seed or
	1 6		Trichoderma viride 4g+ metalaxyl 4g
))		(Apron)/ kg seed
		SERCHH	
		V	captan or 3 copper oxychloride/ It of water
	1		at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ $100g/m^2$ i
	Jan 19	Widstart a sawing	nursery is quite effective.
Ginger & V	Vegetation stage	0.0005520	✓ Weeding in turmeric and ginger field.
Turmeric	egetation stage	LUNGLEI	in turniene und ginger neid.
Turmeric	5	Leaf spot and leaf	• Spraying Dithane M-45 @ 2.5g/litre of
	2	blotch	water or Bavistin @ 1g/litre of water, 2-
		DIOICII	sprayings should be given forthnight
		$P X_{a} = V$	intervals.
		D T COL	
		1 Ll Y	• Spraying of Blitox @ 3 g/l of water wa
		Y Y	found effective against leaf spot.
Maize I	Flowering stage	LI AMANDETTI ALLAS	✓ Weeding in maize plot
		LAWNGTLAV	✓ Topdressing with urea fertilizer.
		Pest: SAIHA	in car worth authage security, empp off and a
		Corn earworm	of the ear and any affected kernels. The res
			of should be fine to eat.
		4 N 1	3 P a g e



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		0	- Crop rotation with leguminous crop.
		Birds	- Reflecting tape poly propylene metall
			shine tape and the other silver that reflec
		1 2	sunlight causing flashing effect is effective
		1	in scaring birds.
		in the second second	- Automatic acetylene exploders or bird
		KOLASIB	scaring gun that produce periodically lou
		Lo. X	noise have been suggested.
Rice	Flowering Stage	3 1	✓ One hand weed will require.
MICC	Howering Stage		✓ Application of split dose of Urea.
	1	Rice Stem borer	 Destroy egg masses.
		Rice Stem Dorer	
	Sugar	0	 Spraying of monocrotophos 20ml/10lt wat
	7 MAMIT		or Imidacloprid 20ml/10lt water.
	2	Gundhi bug	■ Spray monocrotophos 36 WSC @ 1.5 ml
		2	or endosulfan 35 EC @ 1.5 ml/ml
		1	 Insecticide application should be done if the
	1	1 6 6	population reaches ETL of 1 nymph
			adult/ hill.
		Leaf blast	 Judicious application of nitrogenor
	12		fertilizer.
		SERCHHI	Spraying with triclozole (Beam) @0.5gm
		V L	or edifenphos @ 1ml/lt when first sympto
			are notice.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	- A
	>	Syndrome (PRRS).	C
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at
		A (~~	months and yearly interval/6 month interva
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every
	001	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.	
i outti y	Auun stage	SAIHA	• F1 vaccine at (1-6) days of birth and R ₂ vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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LAWNGTLAL SAIHA



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



1 | Page

District: Lawngtalai

Period: 24-28 September, 2014

	2 C				
Parameters	24-09-2014	25-09-2014	26-09-2014	27-09-2014	28-09-2014
Rainfall (mm)	29	4	0	0	4
Max Temp (oC)	29	26	28	29	29
Min Temp (oC)	20	19	17	17	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	98	99	98	98	99
Min RH (%)	71	82	65	60	63
Wind Speed (Kmp	H) 4	2	2	2	2
Wind Direction	S-E	S-E	E	Е	E
STATUS OF MON	Southerly- S, South SOON- August 1-30, 20				
		1		1	
Kolasib- 372.1n			amit-376.0 mm		
(19.16)	(·	-28.00)	(-20.69)	(7.	33)
	mm Lawngtalia-			m Chhimtui	-
(-32.04	4)	(-64.68)	(-16.55)	ļ	(-32.04)
(-32.04 Weather summ		(-64.68)		24 th September	(-32.04)
(-32.04 Weather summ	4) nary of the past e days	(-64.68) Weather fored There is a chance of maximum and min 26-29 ⁰ C and 17-2 range of 93-98% would be southeas cloudy weather wi	(-16.55) ast valid from Septemb of moderate to ligh nimum temperature 0°C. Maximum re and minimum n sterly with the win ll prevail during th	24 th September er, 2014. At rainfall during t es for the next 5 d elative humidity hay from 68-71% d speed of 2-4 km he next five days.	r, 2014 To 28^t he next 3 day. Th lays may range for is expected in th 6. Wind direction n per hour. Dens
(-32.04 Weather summ three	4) nary of the past e days	(-64.68) Weather fored There is a chance of maximum and mir 26-29 ⁰ C and 17-2 range of 93-98% would be southeas cloudy weather wi	(-16.55) cast valid from Septemb of moderate to ligh nimum temperature 0°C. Maximum re and minimum n sterly with the win 11 prevail during th Weekly cumulative	24 th September er, 2014. It rainfall during t es for the next 5 d elative humidity hay from 68-71% d speed of 2-4 km he next five days.	(-32.04) r, 2014 To 28 he next 3 day. The lays may range for is expected in the big of the second second is per hour. Den n
(-32.04 Weather summ	4) nary of the past e days	(-64.68) Weather forect There is a chance of maximum and mir 26-29 ⁰ C and 17-2 range of 93-98% would be southeas cloudy weather with Cultural practice Pest/ Diseases	(-16.55) cast valid from Septemb of moderate to ligh nimum temperature 0 ⁰ C. Maximum re and minimum n sterly with the win ll prevail during th Veekly cumulative ces/ Agricu	24 th September er, 2014. At rainfall during t es for the next 5 d elative humidity hay from 68-71% d speed of 2-4 km he next five days.	(-32.04) r, 2014 To 28^t he next 3 day. The lays may range for is expected in the big of the second second is per hour. Den n tural/animal
(-32.04 Weather summer three Main Crop/ Animal	4) nary of the past e days	(-64.68) Weather forect There is a chance of maximum and mir 26-29 ⁰ C and 17-2 range of 93-98% would be southeas cloudy weather with Cultural practice Pest/ Diseases	(-16.55) cast valid from Septemb of moderate to ligh nimum temperature 0°C. Maximum re and minimum n sterly with the win ll prevail during th Veekly cumulative ces/ Agricu	24 th September er, 2014. It rainfall during t es for the next 5 d elative humidity hay from 68-71% d speed of 2-4 km he next five days. <i>rainfall:</i> 37.0mm ltural / Horticul	(-32.04) r, 2014 To 28 th he next 3 day. The lays may range for is expected in the b. Wind direction in per hour. Den n tural/animal isories



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



	5	KOLASIB	 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. Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	AIZAWIL	 ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from 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	SERCHH	 Clean the vicinity of plants by weeding and loosen up the soil. Remove slips and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	Nursery raising for offseason cucurbits.
	Ì	Damping off	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Vegetative stage	LAWNGTLAL SAIHA Disease:	 Weeding near the plant Fertilizer application in split dose of recommended dose. Draining of excess water and preparation mound near the base. Seed treatment with captan, thiram or
		L'IJCAJC.	
			2 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM

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		Domping off	chlorothalonil will effectively control this
		Damping off-	disease.
		Pest:	• Sulfur fungicides can be used to control
~		Mites and hoppers-	this pest.
Cowpea	Vegetative stage	() ()	Trilling into bower structure.
		KOLASIB	Weeding near the plant
	4		Draining of excess water and preparation
	1	WS	mound near the base.
	5	Scab and leaf blight	✓ Use of resistant varieties.
		disease	
Early Cole crop	Nursery stage	Land preparation	 ✓ Nursery preparation for cabbage,
	2		cauliflower, broccoli and knolkhol.
	7 MAMIT	X X	4 Raised bed, nursery bed solarisation.
	6	AIZAVIL	A Red should be 1m width and
	S	C MICHAR	conventional length.
		5	Application of FYM (1.5-2.0 kg/ m^2)
	1	A second	Line sowing of seeds (7-10cm)
	1	Damping off	\checkmark Seed treatment with thiram 3g/kg seed or
	2 6		Trichoderma viride 4g+ metalaxyl 4g
	3.5		(Apron)/ kg seed
	1	SERCHH	
		w -	captan or 3 copper oxychloride/ It of wate
			at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ²
		Wiustal u sawiiy	nursery is quite effective.
Ginger &	Vegetation stage	0.00000000000	 ✓ Weeding in turmeric and ginger field.
Turmeric	vegetation stage	LUNGLEI	weeding in turment and ginger field.
Turmeric		Loof mot and loof	Conversion Dithere M 15 @ 25 allitre
		Leaf spot and leaf	• Spraying Dithane M-45 @ 2.5g/litre
		blotch	water or Bavistin @ 1g/litre of water, 2
			sprayings should be given forthnight
		1200	intervals.
		L L Y	• Spraying of Blitox @ 3 g/l of water w
			found effective against leaf spot.
Maize	Flowering stage	A company and	✓ Weeding in maize plot
		LAWNGTLAV	✓ Topdressing with urea fertilizer.
		Pest: SAIHA	in cui worm cuinage occurs, empp on the
		Corn earworm	of the ear and any affected kernels. The re
		1 1200	of should be fine to eat.
J		P N N	
			3 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



		Birds	- Reflecting tape poly propylene metalli
	P		shine tape and the other silver that reflect
	60	1 2	sunlight causing flashing effect is effective
		1 8	in scaring birds.
	14		- Automatic acetylene exploders or bird
		KOLASIB	scaring gun that produce periodically lou
		Lo S	
D!	Element Sterr	a l	noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require.
			✓ Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses.
	C		Spraying of monocrotophos 20ml/10lt water
	7 MAMIT	X 2	or Imidacloprid 20ml/10lt water.
	5	Gundhi bug	Spray monocrotophos 36 WSC @ 1.5 ml
		Sector Sector	or endosulfan 35 EC @ 1.5 ml/ml
		5	Insecticide application should be done if the
	1		population reaches ETL of 1 nymph
			adult/ hill.
		Leaf blast	Judicious application of nitrogenou
	3.2		fertilizer.
	F	SERCHHI	Spraying with triclozole (Beam) @0.5gm/
	1	V	or edifenphos @ 1ml/lt when first sympton
		The second se	are notice.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
8		Reproductive	
		Respiratory	2
	<u> </u>	Syndrome (PRRS).	E.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at
	num stage	Swille level.	months and yearly interval/6 month interva
Cattle	All age group	Foot and Mouth	
Cattle	An age group		• FMD vaccine at 16 week and repeat every
	X 7	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV).
			 Primary vaccination 6 month or above
		Li manimum an al	 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂
		/ SAIHA	vaccine for adult birds.
	Early stage	Coccid iosis	1. Amprolium or coccidiostat



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLAL SAIHA



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



1 | P a g e

District: Kolasib

Period: 24-28 September, 2014

Parameters	24-09-2014	25-09-2014	26-09-2014	27-09-2014	28-09-2014	
Rainfall (mm)	12	4	3	0	0	
Max Temp (oC)	28	29	26	31	31	
Min Temp (oC)	20	21	17	18	17	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear	
Max RH (%)	100	100	100	100	100	
Min RH (%)	75	70	85	52	53	
Wind Speed (Km		2	2	2	2	
Wind Direction	S	S-W	S-E	S-E	E	
	Northerly- N, North					
	Southerly- S, South					
STATUS OF MON	SOON- August 1-30, 20		and the second se			
	<u> </u>		, , , , , , , , , ,			
Kolasib- 372.1n	nm Champhai-	329.7mm Ma	amit-376.0 mm	Aizawl-37	′8.0mm	
(19.16)		-28.00)	(-20.69)		33)	
(13.10)		20.00)	(20.05)	2	00)	
			- N	A		
Sanahhin 1665	Town Townstation	265 4		Ohhimteri		
	mm Lawngtalia-			m Chhimtui	-	
Serchhip- 166.7 (-32.04		365.4 mm Lu (-64.68)	inglei- 371.4 m (-16.55)	m Chhimtui	pui- 367.8 mn (-32.04)	
(-32.0	4)	(-64.68)	(-16.55)	ļ	(-32.04)	
(-32.0		(-64.68)	(-16.55) ast valid from	24 th September	(-32.04)	
(-32.04 Weather sum	4)	(-64.68)	(-16.55)	24 th September	• •	
(-32.0) Weather summer three	4) mary of the past e days	(-64.68) Weather forec	(-16.55) ast valid from Septemb	24 th September er, 2014.	(-32.04) r, 2014 To 28 th	
(-32.0) Weather sum thre The temperature	4) mary of the past e days range for maximum	(-64.68) Weather forec There is a chance	(-16.55) ast valid from Septemb of light rainfall du	24 th September er, 2014. uring the next 3 d	(- 32.04) r , 2014 To 28 ^{tl} ay. The maximum	
(-32.0) Weather summ thre The temperature is and minimum we	4) mary of the past e days range for maximum ere 29.6-30.1°C and	(-64.68) Weather forec There is a chance and minimum tem	(-16.55) ast valid from Septemb of light rainfall duperatures for the	24 th September er, 2014. uring the next 3 d next 5 days may	(- 32.04) r, 2014 To 28 th ay. The maximum range for 26-31 ⁰	
(-32.0) Weather sum thre The temperature and minimum we 22.0-23.8 ⁰ C res	4) mary of the past e days range for maximum ere 29.6-30.1°C and pectively. Mainly	(-64.68) Weather forec There is a chance and minimum tem and 17-21 ⁰ C. Max	(-16.55) ast valid from Septemb of light rainfall du peratures for the cimum relative hu	24 th September er, 2014. uring the next 3 d next 5 days may r unidity is expected	(-32.04) r, 2014 To 28 th ay. The maximum range for 26-31 ⁰ ed in the range of	
(-32.0) Weather summer thre The temperature is and minimum we 22.0-23.8 ⁰ C ress Cloudy weather weathe	4) mary of the past e days range for maximum ere 29.6-30.1°C and pectively. Mainly was observed. Wind	(-64.68) Weather forec There is a chance and minimum tem and 17-21°C. Max 100% and minim	(-16.55) ast valid from Septemb of light rainfall du peratures for the cimum relative hu um may from 5	24 th September er, 2014. uring the next 3 d next 5 days may f unidity is expected 2-85%. Wind di	(-32.04) r, 2014 To 28 th ay. The maximum range for 26-31 ⁰ ed in the range of rection would b	
(-32.04 Weather summer three The temperature of and minimum we 22.0-23.8 ⁰ C ress Cloudy weather we direction is south	4) mary of the past e days range for maximum ere 29.6-30.1°C and pectively. Mainly was observed. Wind neasterly. Maximum	(-64.68) Weather forec There is a chance and minimum tem and 17-21°C. Max 100% and minim southeasterly with	(-16.55) ast valid from Septemb of light rainfall du peratures for the cimum relative hu um may from 5 the wind speed of	24 th September er, 2014. uring the next 3 d next 5 days may unidity is expected 2-85%. Wind di f 2-4 km per hour.	(-32.04) r, 2014 To 28 th ay. The maximum range for 26-31 ⁰ ed in the range of rection would b	
(-32.0) Weather summer three The temperature of and minimum we 22.0-23.8 ⁰ C ress Cloudy weather we direction is south RH observed 68-7	4) mary of the past e days range for maximum ere 29.6-30.1°C and pectively. Mainly was observed. Wind neasterly. Maximum 76% & minimum of	(-64.68) Weather forec There is a chance and minimum tem and 17-21°C. Max 100% and minim	(-16.55) ast valid from Septemb of light rainfall du peratures for the cimum relative hu um may from 5 the wind speed of	24 th September er, 2014. uring the next 3 d next 5 days may unidity is expected 2-85%. Wind di f 2-4 km per hour.	(-32.04) r, 2014 To 28 th ay. The maximum range for 26-31 ⁰ ed in the range of rection would b	
(-32.0) Weather summer three The temperature is and minimum we 22.0-23.8 ⁰ C res Cloudy weather we direction is south RH observed 68-7 31-45%. Rainfall is	4) mary of the past e days range for maximum ere 29.6-30.1°C and pectively. Mainly was observed. Wind neasterly. Maximum 76% & minimum of recorded for the past	(-64.68) Weather forec There is a chance and minimum tem and 17-21 ^o C. Max 100% and minim southeasterly with weather will preva	(-16.55) ast valid from Septemb of light rainfall du peratures for the kimum relative hu hum may from 5 the wind speed of il during the next	24 th September er, 2014. uring the next 3 d next 5 days may midity is expected 2-85%. Wind di f 2-4 km per hour. five days.	(-32.04) r, 2014 To 28 th ay. The maximum range for 26-31 ⁰ ed in the range of rection would b Moderate cloud	
(-32.0) Weather summer three The temperature of and minimum we 22.0-23.8 ⁰ C res Cloudy weather we direction is south RH observed 68-7 31-45%. Rainfall of three days is 18.6 for	4) mary of the past e days range for maximum ere 29.6-30.1°C and pectively. Mainly was observed. Wind neasterly. Maximum 76% & minimum of recorded for the past mm.	(-64.68) Weather forec There is a chance and minimum tem and 17-21 ^o C. Max 100% and minim southeasterly with weather will preva	(-16.55) ast valid from Septemb of light rainfall du peratures for the kimum relative hu num may from 5 the wind speed of il during the next Veekly cumulative	24 th September er, 2014. uring the next 3 d next 5 days may unidity is expected 2-85%. Wind di f 2-4 km per hour. five days.	(-32.04) r, 2014 To 28 th ay. The maximum range for 26-31 ⁰ ed in the range of rection would b Moderate cloud	
(-32.0) Weather sum thre The temperature is and minimum we 22.0-23.8 ⁰ C res Cloudy weather we direction is south RH observed 68-7 31-45%. Rainfall is three days is 18.6 is Main Crop/	4) mary of the past e days range for maximum ere 29.6-30.1°C and pectively. Mainly was observed. Wind neasterly. Maximum 76% & minimum of recorded for the past	(-64.68) Weather forec There is a chance and minimum tem and 17-21 ⁰ C. Max 100% and minim southeasterly with weather will preva	(-16.55) ast valid from Septemb of light rainfall du peratures for the kimum relative hu um may from 5 the wind speed of il during the next Weekly cumulative ces/ Agric	24 th September er, 2014. uring the next 3 d next 5 days may r unidity is expected 2-85%. Wind di f 2-4 km per hour. five days. <i>rainfall:</i> 19.0mm ultural / Horticul	(-32.04) r, 2014 To 28 th ay. The maximum range for 26-31 ⁰ ed in the range of rection would be Moderate cloud n tural/animal	
(-32.0) Weather sum thre The temperature is and minimum we 22.0-23.8 ⁰ C res Cloudy weather we direction is south RH observed 68-7 31-45%. Rainfall is three days is 18.6 is Main Crop/ Animal	4) mary of the past e days range for maximum ere 29.6-30.1°C and pectively. Mainly was observed. Wind neasterly. Maximum 76% & minimum of recorded for the past mm.	(-64.68) Weather forec There is a chance and minimum tem and 17-21 ^o C. Max 100% and minim southeasterly with weather will preva	(-16.55) ast valid from Septemb of light rainfall du peratures for the kimum relative hu um may from 5 the wind speed of il during the next Weekly cumulative ces/ Agric	24 th September er, 2014. uring the next 3 d next 5 days may unidity is expected 2-85%. Wind di f 2-4 km per hour. five days.	(-32.04) r, 2014 To 28 th ay. The maximum range for 26-31 ⁰ ed in the range of rection would b Moderate cloud n tural/animal	
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50



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



	5	KOLASIB	 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. Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	AIZAVIL	 ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from 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	SERCHHI	 Clean the vicinity of plants by weeding and loosen up the soil. Remove slips and use it as a new planting material.
Cucurbits	Vegetative stage	LUNGLEI	Nursery raising for offseason cucurbits.
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		Discase.	o seed dealinent with captail, unrail of
		Y N N	2 P a g e



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		Damping off-	chlorothalonil will effectively control this
		Damping on-	disease.
		Pest:	
			• Sulfur fungicides can be used to control
0		Mites and hoppers-	this pest.
Cowpea	Vegetative stage	7	Trilling into bower structure.
		KOLASIB	Weeding near the plant
	((. C	Draining of excess water and preparatio
		W2)	mound near the base.
	5	Scab and leaf blight	✓ Use of resistant varieties.
		disease	
Early Cole crop	Nursery stage	Land preparation	 Nursery preparation for cabbage,
	e Constantino	1	cauliflower, broccoli and knolkhol.
	7 MAMIT	1 1	Raised bed, nursery bed solarisation.
	5	LAIZAWIL 1	HAN HANDER Bed should be 1m width and
		C Uneda une	conventional length.
		5	Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
	1	1 5 1	Line sowing of seeds (7-10cm)
	1	Damping off	✓ Seed treatment with thiram 3g/kg seed or
	2 0		Trichoderma viride 4g+ metalaxyl 4g
	() ()	h-1	(Apron)/ kg seed
	1	SERCHH	
	1	W	captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² i
	1		nursery is quite effective.
Ginger &	Vegetation stage	www.sec.ec	✓ Weeding in turmeric and ginger field.
Turmeric	vegetation stage	LUNGLEI	in turniente una ginger nera.
Turmerie	- F	Leaf spot and leaf	• Spraying Dithane M-45 @ 2.5g/litre of
	L.	blotch	water or Bavistin @ 1g/litre of water, 2-
		Dioten	sprayings should be given forthnight
			intervals.
			• Spraying of Blitox @ 3 g/l of water wa
		1 Li Y	
		t Y I	found effective against leaf spot.
Maize	Flowering stage	LAWNGTLAL	✓ Weeding in maize plot
			✓ Topdressing with urea fertilizer.
		Pest: SAIHA	in eta worini daniage securis, enpp ori ure a
		Corn earworm	of the ear and any affected kernels. The res
		1 2	of should be fine to eat.
			N



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



		0	- Crop rotation with leguminous crop.
		Birds	- Reflecting tape poly propylene metall
			shine tape and the other silver that reflec
		1 2	sunlight causing flashing effect is effective
		1	in scaring birds.
		in the second second	- Automatic acetylene exploders or bird
		KOLASIB	scaring gun that produce periodically lou
		La X	noise have been suggested.
Rice	Flowering Stage	T a 1	✓ One hand weed will require.
Rice	riowering Stage		-
		D. C. J	✓ Application of split dose of Urea.
		Rice Stem borer	• Destroy egg masses.
	S		 Spraying of monocrotophos 20ml/10lt wat
	7 MAMIT	1	or Imidacloprid 20ml/10lt water.
	2	Gundhi bug	Spray monocrotophos 36 WSC @ 1.5 ml
	1		or endosulfan 35 EC @ 1.5 ml/ml
		1	 Insecticide application should be done if the
	1	1 5 1	population reaches ETL of 1 nymph
		1 12	adult/ hill.
	1.0	Leaf blast	Judicious application of nitrogenou
	1.2		fertilizer.
		SERCHHI	Spraying with triclozole (Beam) @0.5gm/
		V~ L	or edifenphos @ 1ml/lt when first sympton
	(are notice.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
U		Reproductive	
	1	Respiratory	2
	<u> </u>	Syndrome (PRRS).	C.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at
			months and yearly interval/6 month interva
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every
cume	in age group	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	
	I build stage	Diack Quarter (DQ)	• Black Quarter Vaccine (BQV).
			 Primary vaccination 6 month or above Paymention appually
		LAWAGTIAL	• Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R_2
			vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLAN SAIHA



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1 | Page

District: Chhimtuipui

Period: 24-28 September, 2014

Parameters	24-09-2014	25-09-2014	26-09-2014	27-09-2014	28-09-2014
Rainfall (mm)	30	3	0	0	0
Max Temp (oC)	29	25	28	29	29
Min Temp (oC)	18	17	16	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	99	100	100	100	100
Min RH (%)	69	81	61	55	61
Wind Speed (Km)		2	2	2	2
Wind Direction	S-E	S-E	S-E	E E	<u></u> N-E
TATUS OF MON	SOON- August 1-30, 2	5	ation from normal amit-376.0 mm	1	29. Om m
(19.16)		-28 001	1-20 691		333
(19.16) Serchhip- 166.7 (-32.0	mm Lawngtalia-	-28.00) 365.4 mm Lu (-64.68)	(-20.69) inglei- 371.4 m (-16.55)	5	33) pui- 367.8 m: (-32.04)
Serchhip- 166.7 (-32.0 Weather sumi	mm Lawngtalia-	365.4 mm s Li (-64.68)	inglei- 371.4 m	m Chhimtui 24 th September	pui- 367.8 m (-32.04)
Serchhip- 166.7 (-32.0 Weather sumi	7 mm Lawngtalia- 4) nary of the past e days	365.4 mm Lu (-64.68) Weather force There is a chance maximum and min 25-29 ⁰ C and 15-1 range of 99-100% would be southeas cloudy weather wi	inglei- 371.4 m (-16.55) cast valid from Septemb of moderate to ligh nimum temperature 8°C. Maximum re 6 and minimum re 5 and minimum re 10 terly with the wind 11 prevail during th	Chhimtui 24 th September er, 2014. At rainfall during t es for the next 5 d elative humidity nay from 55-819 d speed of 2 km p he next five days.	pui- 367.8 m: (-32.04) r, 2014 To 28 he next 2 day. T lays may range 1 is expected in t 6. Wind direction er hour. Modera
Serchhip- 166.7 (-32.0 Weather sumi	7 mm Lawngtalia- 4) nary of the past e days	365.4 mm Lu (-64.68) Weather fored There is a chance maximum and min 25-29°C and 15-1 range of 99-100% would be southeas cloudy weather with Cultural practic Pest/ Disease	inglei- 371.4 m (-16.55) cast valid from Septemb of moderate to ligh nimum temperature 8 ⁰ C. Maximum re 6 and minimum r terly with the wind 11 prevail during th Weekly cumulative ces/ Agrice	Chhimtui 24 th September er, 2014. At rainfall during t es for the next 5 d elative humidity nay from 55-819 d speed of 2 km p he next five days.	pui- 367.8 m: (-32.04) r, 2014 To 28 he next 2 day. T lays may range f is expected in t 6. Wind directi er hour. Moders n tural/ animal
Serchhip- 166.7 (-32.0 Weather sum thre Main Crop/ Animal	7 mm Lawngtalia- 4) nary of the past e days	365.4 mm Lu (-64.68) Weather fored There is a chance maximum and min 25-29°C and 15-1 range of 99-100% would be southeas cloudy weather with Cultural practic Pest/ Disease	anglei- 371.4 m (-16.55) (ast valid from Septemb of moderate to lightimum temperature 8°C. Maximum r 6 and minimum r 6 and minimum r 6 and minimum r 7 terly with the wind 11 prevail during the Neekly cumulative (ces/ Agricu	Chhimtui 24 th September er, 2014. At rainfall during t es for the next 5 d elative humidity nay from 55-819 d speed of 2 km p he next five days.	pui- 367.8 m (-32.04) r, 2014 To 28 he next 2 day. T days may range f is expected in t 6. Wind directi er hour. Modera n tural/ animal sories



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



	5	KOLASIB	 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. Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	AIZAWIL	 ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from 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	SERCHHI	 Clean the vicinity of plants by weeding and loosen up the soil. Remove slips and use it as a new planting material.
Cucurbits	Vegetative stage	LUNGLEI	Nursery raising for offseason cucurbits.
	<u> </u>	Damping off	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Vegetative stage	LAWNGTLAL	 Weeding near the plant Fertilizer application in split dose of recommended dose. Draining of excess water and preparation mound near the base. Seed treatment with captan, thiram or
		Disease:	o Seed treatment with captan, thiram or
		Y Z P	2 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Cowpea Vegetative stage Pest: Mites and hoppers- Mites and hoppers- this pest. • Sulfur fungicides can be used to control this pest. Cowpea Vegetative stage OLASIB • Trilling into bower structure. Weeding near the plant • Draining of excess water and preparation mound near the base. • Vursery stage Early Cole crop Nursery stage Land preparation • Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. Early Cole crop Nursery stage Land preparation • Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. Early Cole crop Nursery stage Land preparation • Nursery bed solarisation. MAMIT Damping off • Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Mustard sawfly • Mustard sawfly • Spraying 1% Bordeaux mixture or 2 g captan of 3 copper oxychloride/ lt of wate at 10-15 DAS are effective. Ginger & Turmeric Vegetation stage • Weeding in turmeric and ginger field. Maize Flowering stage • Awnort.			Damping off-	chlorothalonil will effectively control this
Cowpea Vegetative stage Organization Sulfur fungicides can be used to control this pest. Cowpea Vegetative stage Trilling into bower structure. Weeding near the plant Cowpea Scab and leaf blight disease Weeding near the base. Weeding near the base. Early Cole crop Nursery stage Land preparation Vuse of resistant varieties. MAMIT Mamit Vegetative stage Vegetation stage Damping off Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed Vegetation stage Mustard sawlly Mustard sawlly Application of carbofuran 3G @ 100g/m ² nursery is quite effective. Ginger & Vegetation stage Leaf spot and leaf bloch • Spraying Dithane M-45 @ 2.5g/litre water or Bavistin @ 1g/litre of water, 2 sprayings should be given forthnight intervals. Maize Flowering stage - Weeding in maize plot Maize Flowering stage - Vegetation stage Pest: SAMA - Tripdressing with urea fertilizer. Orn carborn - Tripdressing with urea fertilizer. Flowering stage - Samot and leaf bloch of the ear and any affected kernels. The re of should be fine to eat.				•
Mites and hoppers- Cowpea this pest. Cowpea Vegetative stage * Trilling into bower structure. Weeding near the plant Draining of excess water and preparatio mound near the base. Scab and leaf blight < Use of resistant varieties. Early Cole crop Nursery stage Land preparation Early Cole crop Nursery stage Land preparation Damping off * Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. * Raised bed, nursery bed solarisation. * Bed should be Im width and conventional length. * Application of FYM (1.5-2.0 kg/ m ²) * Line sowing of seeds (7-10cm) * Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed * Drenching 1% Bordeaux mixture or 2 g captan of 3 copper oxychloride/ It of wate at 10-15 DAS are effective. Ginger & Turmeric Vegetation stage • Weeding in turmeric and ginger field. Maize Flowering stage • Weeding in maize plot Maize Flowering stage • Weeding in maize plot • Maize Flowering stage • Weeding in maize plot • Topdressing with urea fertilizer. • Tepdressing with urea fertilizer. • Or earword manage occurs, clipp off the to of should be fine to eat. • Tepdressing with urea fert			Pest:	
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Maize Flowering stage Image: Stage Ima		5	-	
Maize Flowering stage ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer. ● Image: Selection of the ear and any affected kernels. The rest of should be fine to eat.				u
Maize Flowering stage ✓ Weeding in maize plot Maize Flowering stage ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer. ✓ Topdressing with urea fertilizer. ✓ If earworm damage occurs, clipp off the toof the ear and any affected kernels. The rest of should be fine to eat.				
Maize Flowering stage ✓ Weeding in maize plot Maize Flowering stage ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer. ✓ Topdressing with urea fertilizer. ✓ If earworm damage occurs, clipp off the toof the ear and any affected kernels. The rest of should be fine to eat.			$\langle 1 \rangle$	O Spraying of Blitox @ 3 g/l of water w
Maize Flowering stage ✓ Weeding in maize plot Maize Flowering stage ✓ Topdressing with urea fertilizer. Pest: SAIHA - If earworm damage occurs, clipp off the to of the ear and any affected kernels. The rest of should be fine to eat.			1 -2 1	
LAWNGTLAL ✓ Topdressing with urea fertilizer. Pest: SAIHA Corn earworm - If earworm damage occurs, clipp off the trop of the ear and any affected kernels. The rest of should be fine to eat.	Maize	Flowering stage		· · · · · · · · · · · · · · · · · · ·
Pest: SAHA - If earworm damage occurs, clipp off the trop of the ear and any affected kernels. The rest of should be fine to eat.		0 0	LAWNGTLAN	
Corn earworm of the ear and any affected kernels. The results of should be fine to eat.			Pest: SAIHA	
of should be fine to eat.			Corn earworm	
E C S			1 200	
	J		AN I	



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



			- Crop rotation with leguminous crop.
		Birds	- Reflecting tape poly propylene metalli
			shine tape and the other silver that reflect
		1	sunlight causing flashing effect is effectiv
		1	in scaring birds.
	14	V service and	- Automatic acetylene exploders or bird
		KOLASIB	scaring gun that produce periodically lou
		Lo XP	noise have been suggested.
Rice	Flowering Stage	3 0 1	✓ One hand weed will require.
NICC	Flowering Stage		✓ Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses.
		Kice Stem Dorer	
	5 MAMIT		 Spraying of monocrotophos 20ml/10lt water
	J meana i	0 11 1	or Imidacloprid 20ml/10lt water.
	5	Gundhi bug	Spray monocrotophos 36 WSC @ 1.5 ml/
		2	or endosulfan 35 EC @ 1.5 ml/ml
		1 3	 Insecticide application should be done if the
	1	1 6 6	population reaches ETL of 1 nymph of
			adult/ hill.
		Leaf blast	Judicious application of nitrogenou
	12		fertilizer.
	1	SERCHHI	Spruging with dielozoie (Dealit) cologing
		No long	or edifenphos @ 1ml/lt when first symptor
	1		are notice.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	2
		Respiratory	2
	<u> </u>	Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at
			months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every
		Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV).
			 Primary vaccination 6 month or above
		1	 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂
·	0	/" SAIHA	vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
		1 12	· · ·



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLAL SAIHA



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



1 | Page

District: Champhai

Period: 24-28 September, 2014

Parameters	24-09-2014	25-09-2014	26-09-2014	27-09-2014	28-09-2014
Rainfall (mm)	9	7	0	0	0
Max Temp (oC)	28	27	24	29	29
Min Temp (oC)	18	17	16	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	71	76	78	56	59
Wind Speed (Km	pH) 3	2	2	2	2
Wind Direction	S	W	S-E	S-E	S-E
Kolasib- 372.11			amit-376.0 mm		
(19.16) Serchhip- 166. (-32.0	7 mm Lawngtalia-	-28.00) 365.4 mm Li (-64.68)	(-20.69) inglei- 371.4 m (-16.55)	í.	33) pui- 367.8 m (-32.04)
Serchhip- 166. (-32.0	7 mm Lawngtalia-	365.4 mm s Li (-64.68)	inglei- 371.4 m	m Chhimtui	pui- 367.8 m (-32.04)
Serchhip- 166. (-32.0 Weather sum	7 mm Lawngtalia- 4)	365.4 mm s Li (-64.68)	inglei- 371.4 m (-16.55)	m Chhimtui 24 th September	pui- 367.8 m (-32.04)
Serchhip- 166. (-32.0 Weather sum	7 mm Lawngtalia- 4) mary of the past e days	365.4 mm s Li (-64.68)	anglei- 371.4 m (-16.55) ast valid from Septemb of light rainfall du peratures for the ximum relative hu num may from 5	Chhimtui 24 th September er, 2014. uring the next 2 d next 5 days may umidity is expected 6-78%. Wind di	ay. The maximurange for 24-29 ed in the range rection would
Serchhip- 166. (-32.0 Weather sum	7 mm Lawngtalia- 4) mary of the past se days	365.4 mm Lu (-64.68) Weather fored There is a chance and minimum tem and 15-18 ^o C. Mai 100% and minim southeasterly with sky weather will p	anglei- 371.4 m (-16.55) cast valid from Septemb of light rainfall du peratures for the ximum relative hu num may from 5 the wind speed of revail during the r	Chhimtui 24 th September er, 2014. uring the next 2 d next 5 days may unidity is expected 6-78%. Wind di of 2-3 km per ho next five days.	ay. The maximurange for 24-29 ed in the range rection would ur. Dense clou
Serchhip- 166. (-32.0 Weather sum	7 mm Lawngtalia- 4) mary of the past se days	365.4 mm Lu (-64.68) Weather foreo There is a chance and minimum ten and 15-18 ⁰ C. Mai 100% and minim southeasterly with sky weather will p Cultural practic Pest/ Disease	anglei- 371.4 m (-16.55) ast valid from Septemb of light rainfall du peratures for the ximum relative hu num may from 5 the wind speed revail during the r Veekly cumulative ces/ Agricus	Chhimtui 24 th September er, 2014. uring the next 2 d next 5 days may unidity is expected 6-78%. Wind di of 2-3 km per ho next five days.	pui- 367.8 m (-32.04) r, 2014 To 28 ay. The maximular range for 24-29 ed in the range rection would ur. Dense cloue n tural/ animal
Serchhip- 166.' (-32.0 Weather sum thre Main Crop/ Animal	7 mm Lawngtalia- 4) mary of the past be days	365.4 mm Lu (-64.68) Weather fored There is a chance and minimum ten and 15-18 ⁰ C. Mai 100% and minim southeasterly with sky weather will p Cultural practic Pest/ Disease	anglei- 371.4 m (-16.55) cast valid from Septemb of light rainfall du peratures for the ximum relative hu num may from 5 the wind speed of revail during the r <i>Veekly cumulative</i> ces/ Agrice	m Chhimtui 24 th September er, 2014. uring the next 2 d next 5 days may unidity is expected 6-78%. Wind di of 2-3 km per ho next five days.	ay. The maximurange for 24-29 ed in the range rection would ur. Dense cloue n tural/animal sories



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



	5	KOLASIB	 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. Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	AIZAVIL	 Remove water sucker, keep 1or 2 plants in a single place. Remove sword sucker and use it as new planting material. Excess water removes from the base of the plant. Fertilizer application in split dose of recommended dose. Harvest fruits when the flower tips of the plant.
Pineapple	Vegetative stage	SERCHHI	 fruit dehiscent. Clean the vicinity of plants by weeding and loosen up the soil. Remove slips and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	 Nursery raising for offseason cucurbits.
Brinjal	Vegetative stage	Damping off	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective. Weeding near the plant Fertilizer application in split dose of recommended dose. Draining of excess water and preparation mound near the base.
		Disease:	• Seed treatment with captan, thiram or



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



را			
		Damping off-	chlorothalonil will effectively control this
			disease.
		Pest:	• Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Vegetative stage	5	Trilling into bower structure.
		KOLASIB	Weeding near the plant
	4	1	Draining of excess water and preparation
)	LA.	mound near the base.
	(Scab and leaf blight	\checkmark Use of resistant varieties.
	() () () () () () () () () ()	disease	
Early Cole crop	Nursery stage	Land preparation	✓ Nursery preparation for cabbage,
	2		cauliflower, broccoli and knolkhol.
	7 MAMIT	Y).	Raised bed, nursery bed solarisation.
	5	AIZAWIL	Hed should be 1m width and
	1	C. C	conventional length.
		1	4 Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
	1	1 8 1	Line sowing of seeds (7-10cm)
	1	Damping off	\checkmark Seed treatment with thiram 3g/kg seed or
	2. 1	~ 1	Trichoderma viride 4g+ metalaxyl 4g
	22		(Apron)/ kg seed
	1	SERCHH	✓ Drenching 1% Bordeaux mixture or 2 g
		V~L_	captan or 3 copper oxychloride/ lt of water
	()		at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² in
			nursery is quite effective.
Ginger &	Vegetation stage	LUNGLEI	✓ Weeding in turmeric and ginger field.
Turmeric			C
		Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre o
	2	blotch	water or Bavistin @ 1g/litre of water, 2-3
			sprayings should be given forthnightly
		19 AL	intervals.
		$\langle \rangle \rangle$	6 Spraying of Blitox @ 3 g/l of water wa
			found effective against leaf spot.
Maize	Flowering stage		✓ Weeding in maize plot
		LAWNGTLA	\checkmark Topdressing with urea fertilizer.
		Pest: SAIHA	in cui worini cuiniuge occurs, empp ori une un
		Corn earworm	of the ear and any affected kernels. The res
		1 100	of should be fine to eat.
/		P N J	¥
		Y Y Y	3 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



		Diala	- Crop rotation with leguminous crop.
		Birds	- Reflecting tape poly propylene metalli
			shine tape and the other silver that reflect
	1 1	1 8	sunlight causing flashing effect is effectiv
	1 12		in scaring birds.
		KOLASIB	- Automatic acetylene exploders or bird
			scaring gun that produce periodically lou
		why is a	noise have been suggested.
Rice	Flowering Stage	2 1 1	✓ One hand weed will require.
	1		\checkmark Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses.
			Spraying of monocrotophos 20ml/10lt water
	? MAMIT		or Imidacloprid 20ml/10lt water.
	(Gundhi bug	Spray monocrotophos 36 WSC @ 1.5 ml/
		CONCAME LC	or endosulfan 35 EC @ 1.5 ml/ml
		1 S	 Insecticide application should be done if th
	(5	population reaches ETL of 1 nymph of
	4	1 64	adult/ hill.
		Leaf blast	Judicious application of nitrogenou
	A Y	Leai Diast	fertilizer.
	0	SERCHHI	
	5	12-7	spraying with therebere (Beam) conspin-
			or edifenphos @ 1ml/lt when first sympton are notice.
D' -	A 11 - 4	Densing	
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	7
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at
		A	months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every
	2	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV).
			Primary vaccination 6 month or above
		Verennen Re	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R_2
-		/ SAIHA	vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
	v O	1 22 1 1	
		R 1 1	4 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLAL SAIHA



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



1 | Page

District: Aizawl

Period: 24-28 September, 2014

24-09-2014	25-09-2014	26-09-2014	27-09-2014	28-09-2014
		4	0	4
		25	-	30
	18	and the second se		15
Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
		v v		100
				54
	2			2
S	W	Ē	S-E	E
	1		1	
m Champhai-	329.7mm M	amit-376.0 mm	Aizawl-37	′8.0mm
		(-20.69)	(7.)	33)
		1	2	(-32.04)
ary of the past	Weather forec	ast valid from	24 th September	•
ary of the past days	Weather forec	1	· · · · · · · · · · · · · · · · · · ·	
days		ast valid from Septemb	er, 2014.	r, 2014 To 28 ¹
days	There is a chance of	ast valid from Septemb of moderate to light	er, 2014. It rainfall during t	r, 2014 To 28 th
days	There is a chance of maximum and mir	ast valid from Septemb	er, 2014. It rainfall during these for the next 5 d	r, 2014 To 28 he next 4 day. The ays may range f
days	There is a chance of maximum and mir $25-30^{0}$ C and $15-1$	ast valid from Septembor of moderate to light nimum temperature 9°C. Maximum re	er, 2014. It rainfall during the solution of the next 5 dependent of the next 5 dependent of the solution of t	r, 2014 To 28 he next 4 day. The lays may range f is expected in the
days	There is a chance of maximum and mir 25-30 ⁰ C and 15-1 range of 100% and	ast valid from Septemb of moderate to ligh nimum temperature 9°C. Maximum re d minimum may fi	er, 2014. It rainfall during these for the next 5 delative humidity is rom 52-82%. Wir	r, 2014 To 28 he next 4 day. The lays may range f is expected in the ad direction wou
days	There is a chance of maximum and mir 25-30 ⁰ C and 15-1 range of 100% and be southeasterly y	ast valid from Septembo of moderate to ligh nimum temperature 9°C. Maximum red d minimum may from with the wind spece	er, 2014. It rainfall during these for the next 5 dependent of the next 5 dependent of the second se	r, 2014 To 28 he next 4 day. The lays may range f is expected in the ad direction wou
days	There is a chance of maximum and mir 25-30 ⁰ C and 15-1 range of 100% and be southeasterly y	ast valid from Septemb of moderate to ligh nimum temperature 9°C. Maximum re d minimum may fi	er, 2014. It rainfall during these for the next 5 dependent of the next 5 dependent of the second se	r, 2014 To 28 he next 4 day. The lays may range f is expected in the ad direction wou
days	There is a chance of maximum and mir 25-30 ⁰ C and 15-1 range of 100% and be southeasterly we cloud cover will provide the southeasterly we cloud the so	ast valid from Septemb of moderate to ligh nimum temperature 9°C. Maximum re d minimum may fr vith the wind spec revail during the no	er, 2014. It rainfall during these for the next 5 delative humidity is com 52-82%. Wir ed of 2-4 km per ext five days.	r, 2014 To 28 he next 4 day. The lays may range f is expected in the ad direction would r hour. Modera
days	There is a chance of maximum and mir 25-30 ⁰ C and 15-1 range of 100% and be southeasterly we cloud cover will provide the second of the southeasterly we cloud cover will provide the southeasterly we cloud the southea	ast valid from Septembor of moderate to light nimum temperature 9°C. Maximum red d minimum may fr vith the wind spectre revail during the not	er, 2014. It rainfall during the es for the next 5 d elative humidity is rom 52-82%. Wir ed of 2-4 km per ext five days. <i>rainfall:</i> 24.0 mr	r, 2014 To 28 he next 4 day. The lays may range f is expected in the ind direction would r hour. Modera n
days	There is a chance of maximum and mir 25-30 ⁰ C and 15-1 range of 100% and be southeasterly we cloud cover will provide the southeasterly we cloud the so	ast valid from Septemb of moderate to ligh nimum temperature 9°C. Maximum re d minimum may fr vith the wind spec revail during the no Veekly cumulative ces/ Agricu	er, 2014. It rainfall during the es for the next 5 d elative humidity is rom 52-82%. Wir ed of 2-4 km per ext five days. <i>rainfall:</i> 24.0 mr iltural / Horticul	r, 2014 To 28 he next 4 day. The lays may range f is expected in the ind direction wou r hour. Modera m tural/animal
days	There is a chance of maximum and mir 25-30 ⁰ C and 15-1 range of 100% and be southeasterly w cloud cover will pr cloud cover will pr Cultural practic Pest/Diseases	ast valid from Septembo of moderate to ligh nimum temperature 9°C. Maximum red d minimum may fr vith the wind spec revail during the no Veekly cumulative ces/ Agricu	er, 2014. It rainfall during the es for the next 5 d elative humidity is rom 52-82%. Wir ed of 2-4 km per ext five days. <i>rainfall:</i> 24.0 mr	r, 2014 To 28 th he next 4 day. The lays may range f is expected in the nd direction wou r hour. Modera m tural/animal
days	There is a chance of maximum and mir 25-30 ⁰ C and 15-1 range of 100% and be southeasterly w cloud cover will pr cloud cover will pr Cultural practic Pest/Diseases	ast valid from Septembo of moderate to ligh nimum temperature 9°C. Maximum red d minimum may fr vith the wind spectre revail during the new Veekly cumulative ces/ Agricu	er, 2014. It rainfall during the es for the next 5 d elative humidity is rom 52-82%. Wir ed of 2-4 km per ext five days. <i>rainfall:</i> 24.0 mr iltural / Horticul	r, 2014 To 28 th he next 4 day. The lays may range f is expected in the d direction wou r hour. Moderation m tural/ animal sories
	12 29 19 Mainly cloudy 100 70 1) 4 S Northerly- N, North Southerly- S, South OON- August 1-30, 20 m Champhai- 3 (* mm Lawngtalia-	12 4 29 27 19 18 Mainly cloudy Mainly cloudy 100 100 70 70 1) 4 2 S W W Northerly- N, North-Easterly- N-E, E Southerly- S, South-Westerly- S-W, W OON- August 1-30, 2014 (Percent of devi m Champhai- 329.7mm (-28.00) mm Lawngtalia- 365.4 mm	12 4 4 29 27 25 19 18 15 Mainly cloudy Mainly cloudy Mainly cloudy 100 100 100 70 70 82 1 4 2 2 8 W E Northerly- N, North-Easterly- N-E, Easterly- E, South-Southerly- S, South-Westerly- S-W, Westerly-W, North-SOON- August 1-30, 2014 (Percent of deviation from normal in the second sec	12 4 4 0 29 27 25 30 19 18 15 15 Mainly cloudy Mainly cloudy Mainly cloudy Mainly cloudy 100 100 100 100 70 70 82 52 1) 4 2 2 2 S W E S-E Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W. OON- August 1-30, 2014 (Percent of deviation from normal in parenthesis) m Champhai- 329.7mm (-28.00) Mamit-376.0 mm (-20.69) Aizaw1-37 (7. mm Lawngtalia- 365.4 mm Lunglei- 371.4 mm Chhimtui



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



	2	KOLASIB	 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. Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	AIZAVIL	 Remove water sucker, keep 1or 2 plants in a single place. Remove sword sucker and use it as new planting material. Excess water removes from 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	SERCHHI	 Clean the vicinity of plants by weeding and loosen up the soil. Remove slips and use it as a new planting material.
Cucurbits	Vegetative stage	LUNGLEI	Nursery raising for offseason cucurbits.
	5	Damping off	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Vegetative stage	LAWNGTLAL	 Weeding near the plant Fertilizer application in split dose of recommended dose. Draining of excess water and preparation mound near the base.
		Disease:	o Seed treatment with captan, thiram or
		N N M	2 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Damping off-	chlorothalonil will effectively control this
			disease.
		Pest:	• Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Vegetative stage	5	Trilling into bower structure.
		KOLASIB	Weeding near the plant
	4	1	Draining of excess water and preparation
)	LA.	mound near the base.
	(Scab and leaf blight	\checkmark Use of resistant varieties.
	() () () () () () () () () ()	disease	
Early Cole crop	Nursery stage	Land preparation	✓ Nursery preparation for cabbage,
	2		cauliflower, broccoli and knolkhol.
	7 MAMIT	Y).	Raised bed, nursery bed solarisation.
	5	AIZAWIL	Hed should be 1m width and
	N	Concentrate 1	conventional length.
		1	4 Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
	1	1 8 1	Line sowing of seeds (7-10cm)
	1	Damping off	\checkmark Seed treatment with thiram 3g/kg seed or
	2. 1	~ 1	Trichoderma viride 4g+ metalaxyl 4g
	12		(Apron)/ kg seed
	2	SERCHH	✓ Drenching 1% Bordeaux mixture or 2 g
		V La	captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
		Mustard sawfly	\checkmark Application of carbofuran 3G @100g/m ² in
			nursery is quite effective.
Ginger &	Vegetation stage	LUNGLEI	✓ Weeding in turmeric and ginger field.
Turmeric)		(
		Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre o
	1	blotch	water or Bavistin @ 1g/litre of water, 2-3
			sprayings should be given forthnightly
		1 9 al	intervals.
			6 Spraying of Blitox @ 3 g/l of water wa
			found effective against leaf spot.
Maize	Flowering stage	1	✓ Weeding in maize plot
		LAWNGTLAV	✓ Topdressing with urea fertilizer.
		Pest: SAIHA	in cui worini duniuge occurs, empp ori une up
		Corn earworm	of the ear and any affected kernels. The res
		1 1221	of should be fine to eat.
		P N N	
		The C	3 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



	0	eguminous crop.
	Birds	oly propylene meta
		other silver that refle
	1	shing effect is effect
	2	
1	Not a sum	ne exploders or bi
The second	KOLASIB	oduce periodically lo
	16	gested.
	3 4 1	require.
		dose of Urea.
	Rice Stem borer	
	Rice Stem Dorer	
	(otophos 20ml/10lt wa
	0 11:1	$\frac{1}{10}$ water.
	Gundhi bug	os 36 WSC @ 1.5 m
		2 @ 1.5 ml/ml
5 St. 1	1	on should be done if
	1 6	ETL of 1 nymph
9	1 1 7	
-	Leaf blast	tion of nitrogene
	SERCI	zole (Beam) @0.5gn
	M. Log	nl/lt when first sympt
1.	Porcine	oigs or piglets.
2	Reproductive	
J.	Respiratory	
	Syndrome (PRRS)	
	Swine fever.	with SF vaccines a
	A 61	nterval/6 month interv
	Foot and Mouth	week and repeat ever
3	Disease (FMD)	
2)	Black Quarter (BC	ine (BQV).
- 3		tion 6 month or above
	L	nnually
. •	Ranikhet Disease	days of birth and R
LET PL		ds.
	Coccidiosis	idiostat
10		
5	RN	



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLAL SAIHA



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1 | Page

District: Serchhip

Period: 24-28 September, 2014

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Parameters	24-09-2014	25-09-2014	26-09-2014	27-09-2014	28-09-2014
Rainfall (mm)	4	KOLOSIB	0	0	0
Max Temp (oC)	29	26	27	29	30
Min Temp (oC)	18	16	14	14	14
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	62	74	61	48	54
Wind Speed (Kmp) 0 🛸	0	2	2
Wind Direction	S-E Northerly- <mark>N</mark> , North	S	E	E	E
	SOON- August 1-30, 20	1		1	/8.0mm
Kolasib- 372.1m	ım Champhai-	329.7mm M	amit-376.0 mm	Aizawl-37	'8.0mm
(19.16)		-28.00)	(-20.69)	(7	33)
Serchhip- 166.7	mm Lawngtalia-	365.4 mm s Li	11111 unglei- 371.4 m	1	pui- 367.8 m
Serchhip- 166.7 (-32.04 Weather summ	mm Lawngtalia- +) nary of the past	365.4 mm s Li (-64.68)	inglei- 371.4 m (-16.55) cast valid from	m Chhimtui 24 th September	pui- 367.8 m (-32.04)
Serchhip- 166.7 (-32.04 Weather summ	mm Lawngtalia-	365.4 mm s Li (-64.68)	inglei- 371.4 m (-16.55)	m Chhimtui 24 th September	pui- 367.8 m (-32.04)
Serchhip- 166.7 (-32.04 Weather summ	mm Lawngtalia- hary of the past e days	365.4 mm Lu (-64.68) Weather fored There is a chance and minimum ten and 14-18 ^o C. Mai 100% and minim southeasterly with	inglei- 371.4 m (-16.55) cast valid from Septemb of light rainfall de operatures for the ximum relative hum num may from 4 the wind speed of	m Chhimtui 24 th September er, 2014. uring the next 1 d next 5 days may umidity is expected 8-74%. Wind di f 0-2 km per hour.	pui- 367.8 m (- 32.04) r, 2014 To 28 ay. The maximu range for 27-30 ed in the range rection would
Serchhip- 166.7 (-32.04 Weather summ	mm Lawngtalia- hary of the past e days	365.4 mm Lu (-64.68) Weather foreo There is a chance and minimum tem and 14-18 ^o C. Mai 100% and minim	inglei- 371.4 m (-16.55) cast valid from Septemb of light rainfall de operatures for the ximum relative hum num may from 4 the wind speed of	m Chhimtui 24 th September er, 2014. uring the next 1 d next 5 days may umidity is expected 8-74%. Wind di f 0-2 km per hour.	pui- 367.8 m (- 32.04) r, 2014 To 28 ay. The maximu range for 27-30 ed in the range rection would
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Serchhip- 166.7 (-32.04 Weather summ	mm Lawngtalia- hary of the past e days	365.4 mm Lu (-64.68) Weather foreo There is a chance and minimum ten and 14-18 ^o C. Mai 100% and minim southeasterly with weather will preva	anglei- 371.4 m (-16.55) cast valid from Septemb of light rainfall du operatures for the ximum relative hu num may from 4 the wind speed of ail during the next Weekly cumulative ces/ Agrice	m Chhimtui 24 th September er, 2014. uring the next 1 d next 5 days may umidity is expected 8-74%. Wind di f 0-2 km per hour. five days.	ay. The maximurange for 27-30 ed in the range rection would Moderate clou
Serchhip- 166.7 (-32.04 Weather summ three Main Crop/ Animal	mm Lawngtalia- h) nary of the past e days	365.4 mm Lu (-64.68) Weather foreo There is a chance and minimum ten and 14-18 ^o C. Mai 100% and minim southeasterly with weather will preva	anglei- 371.4 m (-16.55) cast valid from Septemb of light rainfall du peratures for the ximum relative hu num may from 4 the wind speed of all during the next Weekly cumulative ces/ Agrice	m Chhimtui 24 th September er, 2014. uring the next 1 d next 5 days may umidity is expected 8-74%. Wind di 6 0-2 km per hour. five days. <i>e rainfall:</i> 04.0mm ultural / Horticul	ay. The maximurange for 27-30 ed in the range rection would Moderate clou



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



	5	KOLASIB	 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. Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	AIZAWIL	 Remove water sucker, keep 1or 2 plants in a single place. Remove sword sucker and use it as new planting material. Excess water removes from 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	SERCHHI	 Clean the vicinity of plants by weeding and loosen up the soil. Remove slips and use it as a new planting material.
Cucurbits	Vegetative stage	LUNGLEI	• Nursery raising for offseason cucurbits.
	5	Damping off	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Vegetative stage	LAWNGTLAL	 Weeding near the plant Fertilizer application in split dose of recommended dose. Draining of excess water and preparation mound near the base.
		Disease:	$\overline{\circ}$ Seed treatment with captan, thiram or
		NIN P	2 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM

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Cowpea Vegetative stage Pest: Mites and hoppers • Sulfur fungicides can be used to control this pest. Cowpea Vegetative stage FolAsiB • Sulfur fungicides can be used to control this pest. Early Cole crop Nursery stage Land preparation • Use of resistant varieties. Early Cole crop Nursery stage Land preparation • Nursery preparation for cabbage. cauliflower, broccoli and knolkhol. • Raised bed, nursery bed solarisation. • Bed should be Im width and conventional length. • Application of FYM (1.5-2.0 kg/m ²) Damping off • Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron) kg seed Orenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ It of wate at 10-15 DAS are effective. Ginger & Turmeric Vegetation stage • Weeding in turmeric and ginger field. Maize Flowering stage • Spraying Dithane M-45 @ 2.5g/litre water or Bavistin @ 1g/litre of water, 2 spraying should be given forthnight intervals. Maize Flowering stage • Weeding in maize plot Maize Flowering stage • Weeding in maize plot Yest: Corn caiworm • The arworn damage occurs, clipp off the 1 of the ear and any affected kernels. The ro of should be fine to eat.			Damping off-	chlorothalonil will effectively control this
Mites and hoppers- Cowpea this pest. Cowpea Vegetative stage * Trilling into bower structure. Weeding near the plant Draining of excess water and preparation disease * Use of resistant varieties. Early Cole crop Nursery stage Land preparation * Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. Early Cole crop Nursery stage Land preparation * Nursery preparation of seeds (7-10cm) MAMIT Paamping off * Seed treatment with thiram 3g/kg seed or Trichoderma vride 4g+ metalaxyl 4g (Apron) kg seed Bernehing 1% Mustard sawfly * Meeding in turmeric and ginger field. Ginger & Turmeric Vegetation stage • Weeding in turmeric and ginger field. Maize Flowering stage AWIGTLAA • Weeding in mizze plot Maize Flowering stage AWIGTLAA • Weeding in mizze plot Maize Flowering stage • Weeting in mizze plot • Weeting in mizze plot Maize Flowering stage • Weeting in mizze plot • Trichoresing win urea fertilizer. • Maize Flowering stage • If earworm damage occurs, clipp off the of the ear and any affected kemels. The re of should be fine to eat.				-
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Maize Flowering stage Maize Flower		1	Sec. and	
Ginger & Vegetation stage Vegetation stage ✓ Mustard sawfly ✓ Application of carbofuran 3G @100g/m ² nursery is quite effective. Ginger & Vegetation stage ✓ Weeding in turmeric and ginger field. Maize Flowering stage ✓ Spraying of Blitox @ 3 g/l of water w found effective against leaf spot. Maize Flowering stage ✓ Weeding in maize plot Y Topdressing with urea fertilizer. ✓ Image: Flowering stage ✓ Y Pest: Image: ✓ Y Flowering stage ✓ ✓ Y Spraying of Blitox @ 3 g/l of water w found effective against leaf spot. ✓ Y Weeding in maize plot ✓ Yourdet kernels. The rest of should be fine to eat.		1	Damping off	
Ginger & Vegetation stage ✓ Mustard sawfly ✓ Application of carbofuran 3G @ 100g/m ² nursery is quite effective. Ginger & Vegetation stage ✓ Weeding in turmeric and ginger field. Ginger & Vegetation stage ✓ Weeding in turmeric and ginger field. Mustard sawfly ✓ Weeding in turmeric and ginger field. Maize Flowering stage ✓ Weeding in mize plot Maize Flowering stage ✓ Yeest: Sattage Maize Flowering stage ✓ Yeest: Sattage Or any of should be fine to eat. ✓ If earworm damage occurs, clipp off the to of should be fine to eat.) 6		
SERCHING Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective. Ginger & Vegetation stage Mustard sawfly Application of carbofuran 3G @100g/m² nursery is quite effective. Weeding in turmeric and ginger field. Ginger & Vegetation stage Leaf spot and leaf blotch Spraying Dithane M-45 @ 2.5g/litre water or Bavistin @ 1g/litre of water, 2 sprayings should be given forthnight intervals. Spraying of Blitox @ 3 g/l of water w found effective against leaf spot. Maize Flowering stage Weeding in maize plot Topdressing with urea fertilizer. If earworm damage occurs, clipp off the of the ear and any affected kernels. The rest of should be fine to eat. 		() ()		
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Ginger & Turmeric Vegetation stage • Application of carbofuran 3G @100g/m ² nursery is quite effective. Ginger & Turmeric Vegetation stage • Weeding in turmeric and ginger field. Maize Leaf spot and leaf blotch • Spraying Dithane M-45 @ 2.5g/litre water or Bavistin @ 1g/litre of water, 2 sprayings should be given forthnight intervals. Maize Flowering stage • • Weeding in maize plot Maize Flowering stage • • If earworm damage occurs, clipp off the to of the ear and any affected kernels. The rest of should be fine to eat.			W .	
Mustard sawfly ✓ Application of carbofuran 3G @ 100g/m ² nursery is quite effective. Ginger & Turmeric Vegetation stage LungLE ✓ Weeding in turmeric and ginger field. Leaf spot and leaf blotch Spraying Dithane M-45 @ 2.5g/litre water or Bavistin @ 1g/litre of water, 2 sprayings should be given forthnight intervals. Maize Flowering stage Spraying of Blitox @ 3 g/l of water w found effective against leaf spot.				
Ginger & Turmeric Vegetation stage Luncle Weeding in turmeric and ginger field. Leaf spot and leaf blotch • Spraying Dithane M-45 @ 2.5g/litre water or Bavistin @ 1g/litre of water, 2 sprayings should be given forthnight intervals. • Spraying of Blitox @ 3 g/l of water w found effective against leaf spot. Maize Flowering stage • Weeding in maize plot • Weeding in maize plot Maize Flowering stage • Meeting in maize plot • Topdressing with urea fertilizer. • If earworm damage occurs, clipp off the to of the ear and any affected kernels. The rest of should be fine to eat. • If earworm damage occurs, clipp off the to of the ear and any affected kernels. The rest of should be fine to eat.			Mustard sawfly	
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Turmeric Leaf spot and leaf blotch Spraying Dithane M-45 @ 2.5g/litre water or Bavistin @ 1g/litre of water, 2 sprayings should be given forthnight intervals. Maize Flowering stage • Spraying of Blitox @ 3 g/l of water w found effective against leaf spot. Maize Flowering stage • Weeding in maize plot • Topdressing with urea fertilizer. • If earworm damage occurs, clipp off the tool of the ear and any affected kernels. The read of should be fine to eat.	Ginger &	Vegetation stage	LUNZI CI	
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blotch water or Bavistin @ 1g/litre of water, 2 sprayings should be given forthnight intervals. Spraying of Blitox @ 3 g/l of water w found effective against leaf spot. Maize Flowering stage ✓ Weeding in maize plot Your against leaf spot. ✓ Topdressing with urea fertilizer. Pest: Amore arworm - If earworm damage occurs, clipp off the to of the ear and any affected kernels. The restored of should be fine to eat.		1	Leaf spot and leaf	• Spraying Dithane M-45 @ 2.5g/litre
Maize Flowering stage Image: Stage Ima		5	-	
Maize Flowering stage Maize Flowering stage Maize Maize Flowering stage Maize Maize Flowering stage Maize Statistical and the state of t				<u> </u>
Maize Flowering stage ✓ Weeding in maize plot Maize Flowering stage ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer. ✓ Topdressing with urea fertilizer. ✓ Of the ear and any affected kernels. The rest of should be fine to eat.			(March)	
Maize Flowering stage ✓ Weeding in maize plot Maize Flowering stage ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer. ✓ Topdressing with urea fertilizer. ✓ Of the ear and any affected kernels. The rest of should be fine to eat.			$\langle \rangle$	• Spraying of Blitox @ 3 g/l of water w
Maize Flowering stage ✓ Weeding in maize plot Maize LAWNGTLAN ✓ Topdressing with urea fertilizer. Pest: SAIHA - If earworm damage occurs, clipp off the to of the ear and any affected kernels. The restored should be fine to eat.			1 - 2 1	
LAWINGTLAL ✓ Topdressing with urea fertilizer. Pest: SAIHA Corn earworm ✓ If earworm damage occurs, clipp off the to of the ear and any affected kernels. The rest of should be fine to eat.	Maize	Flowering stage		
Pest: SAIHA - If earworm damage occurs, clipp off the trop of the ear and any affected kernels. The rest of should be fine to eat.		0 0	LAWNGTLAN	0 1
Corn earworm of the ear and any affected kernels. The results of should be fine to eat.			Pest: SAIHA	
of should be fine to eat.			Corn earworm	
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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD. Guwahati)



		0	- Crop rotation with leguminous crop.
		Birds	- Reflecting tape poly propylene metalli
	1 Emman		shine tape and the other silver that reflect
		1 2	sunlight causing flashing effect is effectiv
		1	in scaring birds.
		KOLASIB	- Automatic acetylene exploders or bird
		NOLASIB	scaring gun that produce periodically lou
		LA.	noise have been suggested.
Rice	Flowering Stage	3 1	✓ One hand weed will require.
Mitt	riowering Stage		✓ Application of split dose of Urea.
	-	Rice Stem borer	 Destroy egg masses.
		Kice Stelli Dollei	 Destroy egg masses. Spraying of monocrotophos 20ml/10lt wate
	> MAMIT		or Imidacloprid 20ml/10lt water.
	1 102502011	Courd Hilling	
	2	Gundhi bug	Spray monocrotophos 36 WSC @ 1.5 ml/ or endosulfan 35 EC @ 1.5 ml/ml
		1	
		1	 Insecticide application should be done if the
		1 6 6	population reaches ETL of 1 nymph of
		1 1 1	adult/ hill.
		Leaf blast	Judicious application of nitrogenou
	12		fertilizer.
		SERCHHI	Spruging with therebere (Beam) consent
		No log	or edifenphos @ 1ml/lt when first sympton
			are notice.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
	(Reproductive	2
		Respiratory	P
	<u> </u>	Syndrome (PRRS).	(
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at
	<u></u>		months and yearly interval/6 month interva
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every
		Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			Primary vaccination 6 month or above
		1	* Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂
- • • • • • J		/ SAIHA	vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
	Darry stage	Cocciuiosis	
		PN S	



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LAWNGTLAL SAIHA