

**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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### **District: Kolasib**

Period: 29, October-02, November, 2014

Bulletin No: -462/	2014/ Bulletin/	English		Dated: 29 <sup>th</sup> Oct	ober, 2014
Parameters	29-10-2014	30-10-2014	31-10-2014	01-11-2014	02-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	28	28	28	28	28
Min Temp (oC)	12	K 11	10	9	9
Cloud Coverage	Clear sky	Clear sky	Partially cloudy	Mainly cloudy	Clear sky
Max RH (%)	97	- 98	98	97	97
Min RH (%)	50	45	43	40	40
Wind Speed (KmpH	) 4	4	4	4	4
*Wind Direction	E	E	E	Е	E
	Northerly- N, Nort				
	Southerly- <mark>S</mark> , Soutl				
STATUS OF MONS	OON- August 1-30, 2	2014 (Percent of dev	viation from normal	in parenthesis)	
		- l-		1	
Kolasib- 372.1mr			<mark>Iamit-376.0 mm</mark>		
(19.16)		(-28.00)	(-20.69)	(7.	33)
	1. 0			5	
	- A.A.	200		10 a	
Serchhip- 166.7	nm Lawngtalia	- 365.4 mm set	unglei- 371.4 m	m Chhimtui	pui- 367.8 mn
(-32.04)		(-64.68)	(-16.55)		(-32.04)
	and af the start	Weedher for	and malt al former	20 <sup>th</sup> Ostakar	2014 To 02nd
Weather summa		weather for	ecast valid from		2014 10 02
three	days		Novemb		
The temperature ran		There is no change	ce of rainfall during	g the next 5 day. T	The maximum an
and minimum were	28.6-30.0 <sup>0</sup> C and	minimum temper	ratures for the next	5 days may rang	e for 28 <sup>0</sup> C and 9
$19.2-20.0^{\circ}C$ resp	ectively. Dense	12 <sup>°</sup> C. Maximum	relative humidity i	s expected in the	range of 97-989
cloudy sky was	observed. Wind		ay from 40-50%. W		
direction is easterly			f 4 km per hour. I		•
observed 48-65% &		the next five days	1. ÷	0 , ,	1
32%. Rainfall reco	5		( )		
three days is <b>02.4 m</b>	-		Weekly cumulative	rainfall: 00.0 mr	n
Main Crop/	Stage	Cultural pract		ltural / Horticul	
				husbandry advi	
-		Pest/Disease	es .	IIIISDAUULUV AUVI	sories
Animal		Pest/ Disease		nusbanury auvi	sories
Animal /Fisheries	C	1 Ps	SAIHA	-	
Animal /Fisheries	Vegetative stage		SAIHA • Prune the	e diseased and dea dressing with Bo	ad twigs.



### **ICAR RESEARCH COMPLEX FOR NEH REGION**



	5	KOLASIB	<ul> <li>mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.</li> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	AIZAVIL	<ul> <li>Remove water sucker, keep 1or 2 plants in a single place.</li> <li>Remove sword sucker and use it as new planting material.</li> <li>Excess water removes from the base of the plant.</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
Pineapple	Vegetative stage	SERCHHI	<ul> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove slips and use it as a new planting material.</li> </ul>
Cucurbits	Vegetative stage		<ul> <li>The seedling should be transplant at 2 leaf stage.</li> <li>Distance should be (50X 70 cm)</li> <li>In case of dry spell use supplementary irrigation.</li> <li>FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and LAWI Blight SAIHA	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water</li> </ul>



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			at 10-15 DAS are effective.
Brinjal	Fruiting stage		<ul> <li>♦ Weeding near the plant</li> </ul>
Ŭ			✤ Fertilizer application in split dose of
	11	1 5	recommended dose.
	1 10		<ul> <li>Draining of excess water and preparation</li> </ul>
		KOLASIB	mound near the base.
	1	Disease:	$\checkmark$ Seed treatment with captan, thiram or
	1	Damping off-	chlorothalonil will effectively control this
	5		disease.
	1	Pest:	$\checkmark$ Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		<b>4</b> Trilling into bower structure.
-	J MAMAIT		Weeding near the plant
	2	L'AIZAVIL IC	Draining of excess water and preparation
			mound near the base.
		Scab and leaf blight	✓ Use of resistant varieties.
	1	disease	
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage,
F			cauliflower, broccoli and knolkhol.
	12		Plough the field 3-4 times
	1	SERCHHI	4 Planting distance, plant to plant 45 cm
	1	No log	and row to row (60-70) cm
	1		Application of FYM $(1.5-2.0 \text{ kg/m}^2)$
			Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or
		LUNGLEI	Trichoderma viride 4g+ metalaxyl 4g
	5		(Apron)/ kg seed
		2	Drenching 1% Bordeaux mixture or 2 g
	1	$\alpha \qquad \gamma \simeq$	captan or 3 copper oxychloride/ lt of water
		PA	at 10-15 DAS are effective.
		Mustard sawfly	• Application of carbofuran 3G @ $100g/m^2$
		1 LAY	in nursery is quite effective.
Mustard and	Sowing	A A A	Seed should be sown in rows 30 cm apart
toria	C	I AMAZET ALS	by drill or pora. The seed should be placed
		LAWNGTLAUS	at 2 to 3 cm depth. In case the moisture in
		( SAIHA	the soil is insufficient, the seed may be
		1211	for soaking.
]		K 1 X 1 X	Ŭ
			<b>3</b>   P a g e



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		2	<ul> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul> <li>✓ Seed should be sown in rows 30 cm apar by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be</li> </ul>
	}	222	<ul> <li>mixed with moist soil and kept overnigh for soaking.</li> <li>✓ Full amount of phosphorus and potash and</li> </ul>
			half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/m<sup>2</sup>)</li> <li>Line sowing of seeds (7-10cm)</li> </ul>
	P	Damping off	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
	2	Leaf spot and leaf	<ul> <li>Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given forthnightly intervals.</li> <li>Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.</li> </ul>
Rice	Flowering Stage	(m)	<ul> <li>One hand weed will require.</li> <li>Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<ul> <li>Destroy egg masses.</li> <li>Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.</li> </ul>
		Gundhi bugalha	<ul> <li>Spray monocrotophos 36 WSC @ 1.5 ml/l or endosulfan 35 EC @ 1.5 ml/ml</li> <li>Insecticide application should be done if the</li> </ul>
		KN V	4   P a g e



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		A	population reaches ETL of 1 nymph or adult/ hill.
	$\sum$	KOLASIB	<ul> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at $(1-6)$ days of birth and $R_2B$ vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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LAWNGTLAL SAIHA



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**District:** Lawntalai

Period: 29, October-02, November, 2014

	10 March 10				
Parameters	29-10-2014	30-10-2014	31-10-2014	01-11-2014	02-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	24	28	28	28	29
Min Temp (oC)	16	13	11	10	10
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Mainly cloudy	Clear sky
Max RH (%)	91	98	97	97	97
Min RH (%)	71	47	40	35	33
Wind Speed (Kmp)	H) 6	5	6	6	6
*Wind Direction	E	N-E	E	Е	Е
STATUS OF MONS	Northerly- N, North Southerly- S, South SOON- August 1-30, 20	-Westerly- <mark>S-W</mark> , W	Vesterly-W, North	-westerly- N-W.	
Kolasib- 372.1m (19.16)		329.7mm M -28.00)	amit-376.0 mm (-20.69)	Aizawl-37	
	35	~1	~	í i	
(-32.04	)	365.4 mm Li (-64.68) Weather fore	(-16.55)	m Chhimtui	pui- 367.8 mn (-32.04)
Weather summ	) nary of the past days	(-64.68) Weather fore	(-16.55) ecast valid from Novemb	m Chhimtui h 29 <sup>th</sup> October, er, 2014.	pui- 367.8 mn (-32.04) 2014 To 02 <sup>nd</sup>
(-32.04 Weather summ	hary of the past days	(-64.68) Weather fore There is no chance minimum tempera 10-16 <sup>0</sup> C. Maximu 98% and minimu	(-16.55) ecast valid from Novemb e of rainfall during tures for the next im relative humid um may from 3 the wind speed of	m Chhimtui h 29 <sup>th</sup> October, er, 2014. g the next 5 day. T 5 days may range ity is expected in 3-71%. Wind din f 5-6 km per hour.	<b>pui- 367.8 mm</b> (-32.04) <b>2014 To 02<sup>nd</sup></b> The maximum ar e for 24-29 <sup>0</sup> C ar the range of 9 rection would b
(-32.04 Weather summ three	hary of the past days	(-64.68) Weather fore There is no chance minimum tempera 10-16 <sup>0</sup> C. Maximu 98% and minimu northeasterly with will prevail during	(-16.55) ecast valid from Novemb e of rainfall during tures for the next um relative humid um may from 3 the wind speed of the next five days	m Chhimtui n 29 <sup>th</sup> October, er, 2014. g the next 5 day. T 5 days may range ity is expected in 3-71%. Wind din f 5-6 km per hour. s.	pui- 367.8 mn (-32.04) 2014 To 02 <sup>nd</sup> The maximum and the range of 9 for 24-29°C and the range of 9 for ection would the the range of 9 for the rang
(-32.04 Weather summ	hary of the past days Stage	(-64.68) Weather for There is no chance minimum tempera 10-16 <sup>0</sup> C. Maximu 98% and minimu northeasterly with will prevail during Cultural practic Pest/ Disease	(-16.55) ecast valid from Novemb e of rainfall during tures for the next im relative humid um may from 3 the wind speed of the next five days the next five days <i>Veekly cumulative</i> ces/ Agric	m Chhimtui h 29 <sup>th</sup> October, er, 2014. g the next 5 day. T 5 days may range ity is expected in 3-71%. Wind din f 5-6 km per hour. s.	pui- 367.8 mr (-32.04) 2014 To 02 <sup>nd</sup> The maximum ar e for 24-29 <sup>o</sup> C ar the range of 9 rection would 1 Light cloudy shows n tural/animal
(-32.04 Weather summ three Main Crop/ Animal	hary of the past days	(-64.68) Weather for There is no chance minimum tempera 10-16 <sup>0</sup> C. Maximu 98% and minimu northeasterly with will prevail during Cultural practic Pest/ Disease	(-16.55) ecast valid from Novemb e of rainfall during tures for the next im relative humid um may from 3 the wind speed of the next five days weekly cumulative ces/ Agrice	m Chhimtui h 29 <sup>th</sup> October, er, 2014. g the next 5 day. T 5 days may range ity is expected in 3-71%. Wind din f 5-6 km per hour. s. prainfall: 00.0 mm ultural / Horticult	pui- 367.8 mm (-32.04) 2014 To 02 <sup>nd</sup> The maximum ar e for 24-29 <sup>0</sup> C ar the range of 9 rection would t Light cloudy sk n tural/ animal sories



### **ICAR RESEARCH COMPLEX FOR NEH REGION**



	2	KOLASIB	<ul> <li>mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.</li> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	AIZAVIL	<ul> <li>Remove water sucker, keep 1or 2 plants in a single place.</li> <li>Remove sword sucker and use it as new planting material.</li> <li>Excess water removes from the base of the plant.</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Harvest fruits when the flower tips of the</li> </ul>
Pineapple	Vegetative stage	SERCHHI	<ul> <li>fruit dehiscent.</li> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove slips and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage		<ul> <li>The seedling should be transplant at 2 leaf stage.</li> <li>Distance should be (50X 70 cm)</li> <li>In case of dry spell use supplementary irrigation.</li> <li>FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and AWI Blight SAIHA	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water</li> <li>2   P a g e</li> </ul>



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		0	at 10-15 DAS are effective.
	<b></b>		
Brinjal	Fruiting stage		<ul> <li>♦ Weeding near the plant</li> </ul>
		1. 2.	✤ Fertilizer application in split dose of
	1 1-	2 8	recommended dose.
		KOLASIB	<ul> <li>Draining of excess water and preparation</li> </ul>
			mound near the base.
	)	Disease:	✓ Seed treatment with captan, thiram or shlarathalanil will affactively control this
	(	Damping off-	chlorothalonil will effectively control this disease.
		Pest:	✓ Sulfur fungicides can be used to control
	1	Mites and hoppers-	this pest.
Cowpea	Fruiting stage	whites and hoppers-	<ul> <li>Trilling into bower structure.</li> </ul>
Compea	Fruiting stage	X )	<ul> <li>Weeding near the plant</li> </ul>
	5	LAIZAVIL 10	Draining of excess water and preparation
		Villeon in	mound near the base.
		Scab and leaf blight	✓ Use of resistant varieties.
	2	disease	
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage,
· ·	5	~~··/	cauliflower, broccoli and knolkhol.
	12	SERCHH	Plough the field 3-4 times.
		(~~)	Planting distance, plant to plant 45 cm
			and row to row (60-70) cm
	7		Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
			Fertilizer application 180:50:50 kg/ha.
		Damping off	Seed treatment with thiram 3g/kg seed or
	2	LUNGLEI	Trichoderma viride 4g+ metalaxyl 4g
	F	-	(Apron)/ kg seed
		a 8~	✓ Drenching 1% Bordeaux mixture or 2 g
		1	captan or 3 copper oxychloride/ lt of water
		Margan Jarre G.	at 10-15 DAS are effective. Application of each of way $2C \approx 100 \text{ s/m}^2$
		Mustard sawfly	Application of carbofuran 3G @ $100g/m^2$ in nursery is quite effective.
Mustard and	Sowing		Seed should be sown in rows 30 cm apart
toria	sowing		by drill or pora. The seed should be placed
10110		LAWNGTLAV	at 2 to 3 cm denth. In case the moisture in
		C SAIHA	the soil is insufficient, the seed may be
			mixed with moist soil and kept overnight
		1211	for soaking.
]		6 171 2	
		4	3   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



		2	✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apar by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in
	Ş	hz 5	the soil is insufficient, the seed may be mixed with moist soil and kept overnigh for soaking.
	1	3 22	<ul> <li>Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>Line sowing of seeds (7-10cm)</li> </ul>
	P	Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	2	Leaf spot and leaf	<ul> <li>Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightl intervals.</li> <li>Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.</li> </ul>
Rice	Flowering Stage	MN	<ul> <li>One hand weed will require.</li> <li>Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<ul> <li>Destroy egg masses.</li> <li>Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.</li> </ul>
		Gundhi bugalha	<ul> <li>Spray monocrotophos 36 WSC @ 1.5 ml/l or endosulfan 35 EC @ 1.5 ml/ml</li> <li>Insecticide application should be done if the</li> </ul>
		KN V	4   P a g e



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Guwahati)

		A	population reaches ETL of 1 nymph o adult/ hill.
	2	KOLASIB	<ul> <li>Judicious application of nitrogenou fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/l or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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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)



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### **District:** Lunglei

Period: 29, October-02, November, 2014

	1979 - 1970 - 1979 - 1970 - 1979 - 1970 - 19	123			
Parameters	29-10-2014	30-10-2014	31-10-2014	01-11-2014	02-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	24	28	28	28	28
Min Temp (oC)	14	N 11	9	8	8
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Mainly Cloudy	Clear sky
Max RH (%)	98	- 99	99	99	99
Min RH (%)	77	43	37	33	32
Wind Speed (Kmp	н) б	4	6	5	6
*Wind Direction	E	E	E	E	Е
STATUS OF MON	Southerly- S, South SOON- August 1-30, 2		esterly-W, North	-westerly- N-W.	
Kolasib- 372.1m (19.16) Serchhip- 166.7 (-32.04	mm Lawngtalia	329.7mm Ma (-28.00) - 365.4 mm Lu (-64.68)	mit-376.0 mm (-20.69) nglei- 371.4 m (-16.55)	(7.:	
	nary of the past e days	Weather fore	cast valid from Novemb	n 29 <sup>th</sup> October, er, 2014.	2014 To 02 <sup>nd</sup>
		There is no chance			
	5	8-14 <sup>0</sup> C. Maximum and minimum may the wind speed of 4 the next five days.	relative humidity from 32-77%. W 4-6 km per hour.	is expected in the ind direction woul Light cloudy sky v	e range of 98-999 d be easterly wi will prevail durir
Main Crop/ Animal /Fisheries	Stage	8-14 <sup>0</sup> C. Maximum and minimum may the wind speed of 4 the next five days. W Cultural practic Pest/ Diseases	relative humidity from 32-77%. W 4-6 km per hour. <i>eekly cumulative</i> es/ Agricu	is expected in the ind direction would	d be easterly win will prevail durin n cural/ animal

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### **ICAR RESEARCH COMPLEX FOR NEH REGION**



	5	KOLASIB	<ul> <li>mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.</li> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	LA ZAVIL	<ul> <li>Remove water sucker, keep 1or 2 plants in a single place.</li> <li>Remove sword sucker and use it as new planting material.</li> <li>Excess water removes from the base of the plant.</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Harvest fruits when the flower tips of the fruit debiagent.</li> </ul>
Pineapple	Vegetative stage	SERCHHI	<ul> <li>fruit dehiscent.</li> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove slips and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage		<ul> <li>The seedling should be transplant at 2 leaf stage.</li> <li>Distance should be (50X 70 cm)</li> <li>In case of dry spell use supplementary irrigation.</li> <li>FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and LAWNBlight SAIHA	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water</li> <li>2   P a g e</li> </ul>



### **ICAR RESEARCH COMPLEX FOR NEH REGION**

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

Guwahati)



			at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB Disease:	<ul> <li>Weeding near the plant</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Draining of excess water and preparation mound near the base.</li> <li>Seed treatment with captan, thiram or</li> </ul>
	ζ	Damping off-	chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	<ul> <li>✓ Sulfur fungicides can be used to control this pest.</li> </ul>
Cowpea	Fruiting stage	AIZAWIL	<ul> <li>Trilling into bower structure.</li> <li>Weeding near the plant</li> <li>Draining of excess water and preparation mound near the base.</li> </ul>
	1	Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation SERCHHI	<ul> <li>Main land preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>Plough the field 3-4 times.</li> <li>Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>Fertilizer application 180:50:50 kg/ha.</li> </ul>
	2	Damping off LUNGLET Mustard sawfly	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> <li>Application of carbofuran 3G @ 100g/m<sup>2</sup></li> </ul>
Mustard and toria	Sowing	LAWNGTLAL	<ul> <li>in nursery is quite effective.</li> <li>Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.</li> </ul>
		N N M	3   P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



-		$\bigwedge$	<ul> <li>✓ Full amount of phosphorus and potash half amount of nitrogen should be app at the time of sowing</li> </ul>	lied
Pea	Sowing	1 5	$\checkmark$ Seed should be sown in rows 30 cm	-
			by drill or pora. The seed should be p	
		KOLASIB	at 2 to 3 cm depth. In case the moist	
			the soil is insufficient, the seed ma	
	1	12 a )	mixed with moist soil and kept over	might
	>		for soaking.	ام مر ما
	1	5 5 6	✓ Full amount of phosphorus and potas	
		1 51	half amount of nitrogen should be ap	opnea
Tomato	Numaanni stassa	Land nuononation	<ul><li>at the time of sowing</li><li>✓ Nursery preparation for tomato.</li></ul>	
Tomato	Nursery stage	Land preparation	Doigod had mumany had colonication	n
	20	( AIZAWL (C	Bed should be 1m width and	<i>л</i> г.
		1	conventional length.	
	(	1	Application of FYM (1.5-2.0 kg/ r	$n^2$ )
	5	1 5	Line sowing of seeds (7-10cm)	,
	16	Damping off	✓ Seed treatment with thiram 3g/kg seed	l or
	3.5	1 8	Trichoderma viride 4g+ metalaxyl 4g	
		SERCHHI		
		V	✓ Drenching 1% Bordeaux mixture or 2	g
			captan or 3 copper oxychloride/ lt of v	vater
			at 10-15 DAS are effective.	
	1	Leaf spot and leaf	• Spraying Dithane M-45 @ 2.5g/lit	
		blotch	water or Bavistin @ 1g/litre of wate	
	5	ana Voletenner	sprayings should be given forthn	ightly
		00	intervals.	
		a (~	• Spraying of Blitox @ 3 g/l of water	r was
			found effective against leaf spot.	
Rice	Flowering Stage	1 m C	One hand weed will require.	
	<u></u>	D: C4	Application of split dose of Urea.	
		Rice Stem borer	Destroy egg masses.	wota
		LAWNGTLAL	<ul> <li>Spraying of monocrotophos 20ml/10lt or Imidacloprid 20ml/10lt water.</li> </ul>	water
		Gundhi bugalita	<ul> <li>Spray monocrotophos 36 WSC @ 1.5</li> </ul>	m1/lt
		Guildin bug	or endosulfan 35 EC @ 1.5 ml/ml	1111/11
			<ul> <li>Insecticide application should be done</li> </ul>	if the
		176	insecticité appreation should de doite	
		VIV M	4   P a	ge



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

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



Guwahati)

		A	population reaches ETL of 1 nymph or adult/ hill.
	5	KOLASIB	<ul> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at $(1-6)$ days of birth and $R_2E$ 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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LAWNGTLAL SAIHA



### **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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#### **District: Mamit**

Period: 29, October-02, November, 2014

Parameters	29-10-2014	30-10-2014	31-10-2014	01-11-2014	02-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	26	28	28	28	28
Min Temp (oC)	13	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Partially clean	Mainly clean	Clear sky
Max RH (%)	98	- 98	98	98	99
Min RH (%)	60	50	47	44	44
Wind Speed (Kmp)		4	4	4	3
*Wind Direction	E	E	Ē	E	E
STATUS OF MONS	Southerly- <mark>S</mark> , South SOON- August 1-30, 2				
Kolasib- 372.1m (19.16)		329.7mm M (-28.00)	amit-376.0 mm (-20.69)		'8.0mm 33)
<mark>Serchhip- 166.7</mark> (-32.04		365.4 mm s Lu (-64.68)	inglei- 371.4 m (-16.55)	m Chhimtui	pui- 367.8 mr (-32.04)
Weather summ		(-64.68)		h 29 <sup>th</sup> October,	
(-32.04 Weather summ	) nary of the past	(-64.68) Weather fore There is no chance minimum tempera 10-13°C. Maximu 99% and minimum with the wind spe during the next fiv	(-16.55) ecast valid from Novemb e of rainfall during tures for the next im relative humid n may from 44-600 ed of 3-4 km per 1 re days.	<b>1 29<sup>th</sup> October,</b> <b>er, 2014.</b> g the next 5 day. To 5 days may range ity is expected in %. Wind direction hour. Light cloud	(-32.04) 2014 To 02 <sup>nd</sup> The maximum and the for 26-28 <sup>0</sup> C and the range of 9 would be easter by sky will preva
(-32.04 Weather summ	) nary of the past	(-64.68) Weather ford There is no chance minimum tempera 10-13 <sup>0</sup> C. Maximu 99% and minimum with the wind spe during the next fiv V Cultural praction Pest/ Disease	(-16.55) ecast valid from Novembe e of rainfall during tures for the next in relative humid n may from 44-609 ed of 3-4 km per in re days. Veekly cumulative ces/ Agricu	<b>1 29<sup>th</sup> October,</b> <b>er, 2014.</b> g the next 5 day. To 5 days may range ity is expected in %. Wind direction hour. Light cloud	(-32.04) 2014 To 02 <sup>nd</sup> The maximum ar e for 26-28 <sup>o</sup> C ar the range of 92 would be easter by sky will preva
(-32.04 Weather summ three Main Crop/ Animal	) nary of the past e days	(-64.68) Weather ford There is no chance minimum tempera 10-13 <sup>0</sup> C. Maximu 99% and minimum with the wind spe during the next fiv V Cultural praction Pest/ Disease	(-16.55) ecast valid from Novembe e of rainfall during tures for the next im relative humid n may from 44-60 ed of 3-4 km per 1 re days. Veekly cumulative ces/ Agricu	<b>1 29<sup>th</sup> October,</b> er, 2014. g the next 5 day. T 5 days may range ity is expected in %. Wind direction hour. Light cloud rainfall: 00.0 mm altural / Horticula	(-32.04) 2014 To 02 <sup>nd</sup> The maximum ar e for 26-28 <sup>o</sup> C ar the range of 99 would be easter by sky will preva



### **ICAR RESEARCH COMPLEX FOR NEH REGION**



	5	KOLASIB	<ul> <li>mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.</li> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	LA ZAVIL O	<ul> <li>Remove water sucker, keep 1or 2 plants in a single place.</li> <li>Remove sword sucker and use it as new planting material.</li> <li>Excess water removes from the base of the plant.</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Harvest fruits when the flower tips of the fruit debiagent.</li> </ul>
Pineapple	Vegetative stage	SERCHHI	<ul> <li>fruit dehiscent.</li> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove slips and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage		<ul> <li>The seedling should be transplant at 2 leaf stage.</li> <li>Distance should be (50X 70 cm)</li> <li>In case of dry spell use supplementary irrigation.</li> <li>FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and LAWINBlight SAIHA	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water</li> <li>2   P a g e</li> </ul>



### **ICAR RESEARCH COMPLEX FOR NEH REGION**

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



Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing				
<ul> <li>Fertilizer application in split dose of recommended dose.</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Fraining of excess water and preparation mound near the base.</li> <li>Seed reatment with captan, thiram or chlorothalonil will effectively control this disease.</li> <li>Seed reatment with captan, thiram or chlorothalonil will effectively control this disease.</li> <li>Seed reatment with captan, thiram or chlorothalonil will effectively control this disease.</li> <li>Seed reatment with captan, thiram or chlorothalonil will effectively control this disease.</li> <li>Suffur fungicides can be used to control this pest.</li> <li>Scab and leaf blight disease</li> <li>Scab and leaf blight disease</li> <li>Vegetative stage Land preparation</li> <li>Sercenti</li> <li>Sercenti</li> <li>Sercenti</li> <li>Mustard sawfly</li> <li>Mustard sawfly</li> <li>Application of arbotran 3G @ 100g/m<sup>2</sup> in nursery is quite effective.</li> <li>Seed should be placed at 2 to 3 cm dept. In case the moisture in the soil is insufficient, the seed may be</li> </ul>			0	at 10-15 DAS are effective.
<ul> <li>Fruiting stage</li> <li>Fruiting stage</li> <li>Scab and leaf blight disease</li> <li>Vegetative stage</li> <li>Land preparation</li> <li>Sercenti</li> <li>Vegetative stage</li> <li>Land preparation</li> <li>Sercenti</li> <li>Sercenti</li> <li>Mustard and toria</li> <li>Sowing</li> <li>Mustard and toria</li> <li>Sowing</li> <li>Auxing tage</li> <li>Mustard and toria</li> <li>Sowing</li> <li>Auxing tage</li> <li>Auxing tagin tage</li> <li>Auxing tage</li> <li>Auxing tagin ta</li></ul>	Brinjal	Fruiting stage		<ul> <li>Weeding near the plant</li> </ul>
Recenses       Pest:       Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.         Cowpea       Pest:       Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.         Cowpea       Pest:       Y Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.         Cowpea       Pest:       Y Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.         Cowpea       Fruiting stage       Y Stalfur fungicides can be used to control this pest.         Early Cole crop       Vegetative stage       Land preparation         Scab and leaf blight       Y Use of resistant varieties.         Barly Cole crop       Vegetative stage       Land preparation         Scab and leaf blight       Y Use of resistant varieties.         Barly Cole crop       Vegetative stage       Land preparation         Sector       Y Use of resistant varieties.         Barly Cole crop       Vegetative stage       Land preparation         Sector       Y Use of resistant varieties.         Barly Cole crop       Vegetative stage       Land preparation         Sector       Y Plough the field 3-4 times.         Planting distance, plant to plant 45 cm and row to row (60-70) cm       Application of FYM (1.5-2.0 kg/m <sup>2</sup> )         Y Porenting	Ŭ			
<ul> <li>Draining of excess water and preparation mound near the base.</li> <li>Disease: Dampig off- Dampig off- Dampig off- Mites and hoppers- Cowpea</li> <li>Fruiting stage</li> <li>Fruiting stage</li> <li>Scab and leaf blight disease.</li> <li>Scab and leaf blight disease</li> <li>Scab and leaf blight disease</li> <li>Vegetative stage</li> <li>Land preparation</li> <li>Sercetti</li> <li>Damping off</li> <li>Sercetti</li> <li>Pertilizer application of GrYM (1.5-2.0 kg/m<sup>2</sup>)</li> <li>Pertilizer application of FYM (1.5-2.0 kg/m<sup>2</sup>)</li> <li>Pertilizer application of FYM (1.5-2.0 kg/m<sup>2</sup>)</li> <li>Pertilizer application of GrYM (1.5-2.0 kg/m<sup>2</sup>)</li> <li>Pertilizer application of Carbotave view (4, prom)/ kg seed or Trichoderma viride 44, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 44, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 44, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Trichoderma viride 46, metalaxyl 4g (Aprom)/ kg seed or Tri</li></ul>		1 1	1 5	
Kotasis       mound near the base.         Disease: Damping off-       Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.         Cowpea       Fruiting stage       Suffur fungicides can be used to control this pest.         Cowpea       Fruiting stage       Scab and leaf blight disease       Vegetative stage       Vegetative stage         Early Cole crop       Vegetative stage       Land preparation       Vegetative stage       Mini and preparation for cabbage, cauliflower, broccoli and knolkhol.         Damping off       Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed       Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed         Mustard and toria       Sowing       Mustard sawfly       Application of carbotran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.		1 12		<ul> <li>Draining of excess water and preparation</li> </ul>
Damping off- Pest: Mites and hoppers- Cowpea       Chlorothalonil will effectively control this disease.         Cowpea       Fruiting stage       -         Scab and leaf blight disease       -       -         Vegetative stage       Land preparation       -         Scab and leaf blight disease       -       -         Vegetative stage       Land preparation       -         Scab and leaf blight disease       -       -         Vegetative stage       Land preparation       -         Serection       -       -         Damping off       -       -         Mustard and toria       Sowing       -         Mustard and toria       Sowing       -			KOLASIB	
Cowpea       Fruiting stage       Sulfur fungicides can be used to control this pest.         Cowpea       Fruiting stage       Trilling into bower structure.         Scab and leaf blight disease       Veeding near the plant         Damping off       Vegetative stage       Land preparation         Scab and leaf blight disease       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Planting distance, plant to plant 45 cm and row to row (60-70) cm         Application of FYM (1.5-2.0 kg/m²)       Fertilizer application 180:50:50 kg/ha.         Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed       Seed treatment with thiram 3g/kg seed or Trichoderma or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.         Mustard and toria       Sowing       Application of carbofuran 3G @ 100g/m² in nursery is quite effective.         Mustard and toria       Sowing       Same       Same		(	Disease:	✓ Seed treatment with captan, thiram or
Cowpea       Fruiting stage       Sulfur fungicides can be used to control this pest.         Cowpea       Fruiting stage       Trilling into bower structure.         Scab and leaf blight disease       Veeding near the plant         Damping off       Vegetative stage       Land preparation         Scab and leaf blight disease       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Planting distance, plant to plant 45 cm and row to row (60-70) cm         Application of FYM (1.5-2.0 kg/m²)       Fertilizer application 180:50:50 kg/ha.         Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed       Seed treatment with thiram 3g/kg seed or Trichoderma or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.         Mustard and toria       Sowing       Application of carbofuran 3G @ 100g/m² in nursery is quite effective.         Mustard and toria       Sowing       Same       Same		1	Damping off-	chlorothalonil will effectively control this
Mites and hoppers- Cowpea       His past.       Trilling into bower structure.         Fruiting stage       + Trilling into bower structure.       Weeding near the plant         Draining of excess water and preparation mound near the base.       • Use of resistant varieties.         Early Cole crop       Vegetative stage       Land preparation       • Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Early Cole crop       Vegetative stage       Land preparation       • Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Bamping off       • Application of FYM (1.5-2.0 kg/m <sup>2</sup> )       • Fertilizer application 180:50.50 kg/ha.         Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed       • Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed         Mustard and toria       Sowing       • Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.         Mustard and toria       Sowing       • Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be		5		
Cowpea       Fruiting stage       Trilling into bower structure.         AZZALL       Weeding near the plant         Draining of excess water and preparation mound near the base.       Weeding near the plant         Early Cole crop       Vegetative stage       Land preparation         SERCH       Sercent       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Planting distance, plant to plant 45 cm and row to row (60-70) cm       Planting distance, plant to plant 45 cm and row to row (60-70) cm         Damping off       Sercent       Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed         Mustard and toria       Sowing       Mustard sawfly       Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.         Mustard and toria       Sowing       SaltHA       SaltHA       SaltHA		1	Pest:	✓ Sulfur fungicides can be used to control
Mustard and toria       Sowing       Mustard sawfly       Y       Weeding near the plant         Mustard and toria       Sowing       Mustard sawfly       Y       Weeding near the plant         Mustard and toria       Sowing       Mustard sawfly       Y       Weeding near the plant         Mustard and toria       Sowing       Mustard sawfly       Y       Mustard sawfly       Y         Mustard and toria       Sowing       Mustard sawfly       Y       Application of carbofure and s0 carbofure an			Mites and hoppers-	
Mustard and toria       Sowing         Mustard and toria	Cowpea	Fruiting stage		Trilling into bower structure.
Image: Second		1 merina i		Weeding near the plant
Scab and leaf blight disease       ✓       Use of resistant varieties.         Early Cole crop       Vegetative stage       Land preparation       ✓       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Early Cole crop       Vegetative stage       Land preparation       ✓       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Early Cole crop       Vegetative stage       Land preparation       ✓       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Early Cole crop       Vegetative stage       Land preparation       ✓       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Early Cole crop       Vegetative stage       Land preparation       ✓       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Damping off       Damping off       Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed       Seed treatment with thiram 3g/kg seed or Trichoderma or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.         Mustard and toria       Sowing       Mustard sawfly        Applicati		1	( AIZAWIL 10	
disease         Early Cole crop       Vegetative stage       Land preparation       ✓       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Early Cole crop       Vegetative stage       Land preparation       ✓       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         Sercent       Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Vegetative       Damping off       Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed       Precision of carbofuran 3G @ 100g/m² in nursery is quite effective.         Mustard and toria       Sowing       Seed should b				
Early Cole crop       Vegetative stage       Land preparation       ✓       Main land preparation for cabbage, cauliflower, broccoli and knolkhol.         SERCHHI       SERCHHI       Flough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Plough the field 3-4 times.       Plough the field 3-4 times.         Plough the field 3-4 times.       Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed         Denching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ It of water at 10-15 DAS are effective.       Plough the field 3-4 times.         Mustard and toria       Sowing       Seed should be sown in rows 30 cm apart by drill or		1	Scab and leaf blight	✓ Use of resistant varieties.
Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing			disease	
Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing	Early Cole crop	Vegetative stage	Land preparation	$\checkmark$ Main land preparation for cabbage,
Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing		A N		cauliflower, broccoli and knolkhol.
Mustard and toria       Sowing         Mustard and toria       Salina		0	ecocuti	Plough the field 3-4 times.
Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing		5	(~~	Planting distance, plant to plant 45 cm
Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing			and the second	and row to row (60-70) cm
Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing         Mustard and toria       Sowing		3		Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
Mustard and toria       Sowing       Mustard sawfly       ✓       Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be				
Mustard and toria       Sowing         Mustard and toria       Sowing				Seed treatment with thiram 3g/kg seed or
Mustard and toria       Sowing       ✓       Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.         Mustard and toria       Sowing       ✓       Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.         Mustard and toria       Sowing       ✓       Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be			LUNGLEI	Trichoderma viride 4g+ metalaxyl 4g
Mustard and toria       Sowing         Mustard and toria       Sowing    SAIHA Captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective. Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective. Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be		1		(Apron)/ kg seed
Mustard and toria       Sowing       ✓       Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be			~	
Mustard and toria       Sowing       ✓       Application of carbofuran 3G @ 100g/m² in nursery is quite effective.         Mustard and toria       Sowing       ✓       Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be			A A	
Mustard and toria       Sowing       ✓       Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be			P \	
Mustard and toria       Sowing       ✓       Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be			Mustard sawfly	
toria by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be			1 La Y	
at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be		Sowing	Y 19	
at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be	toria		LAWNGTLAL	
the soil is insufficient, the seed may be				-
				mixed with moist soil and kept overnight
for soaking.			Jal 1	for soaking.
3   Page			VIN P	3   Page



ICAR RESEARCH COMPLEX FOR NEH REGION



		2	✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apar by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in
	Ş	hz 2	the soil is insufficient, the seed may be mixed with moist soil and kept overnigh for soaking.
	1	3 2	<ul> <li>Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>Line sowing of seeds (7-10cm)</li> </ul>
	P	Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
		Leaf spot and leaf	<ul> <li>Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightl intervals.</li> <li>Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.</li> </ul>
Rice	Flowering Stage	MN	<ul> <li>One hand weed will require.</li> <li>Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<ul> <li>Destroy egg masses.</li> <li>Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.</li> </ul>
		Gundhi bugalha	<ul> <li>Spray monocrotophos 36 WSC @ 1.5 ml/m or endosulfan 35 EC @ 1.5 ml/ml</li> <li>Insecticide application should be done if the</li> </ul>
		KN V	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)



ICAR			
	5	Leaf blast KOLASIB	<ul> <li>population reaches ETL of 1 nymph or adult/ hill.</li> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at $(1-6)$ days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





ICAR RESEARCH COMPLEX FOR NEH REGION

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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)



### **District:** Serchhip

Period: 29, October-02, November, 2014

		nglish	<b>1</b>	Dated: 28 <sup>th</sup> Octo	ober, 2014
Parameters	29-10-2014	30-10-2014	31-10-2014	01-11-2014	02-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	23	28	28	28	28
Min Temp (oC)	13	10	8	7	7
Cloud Coverage	Mainly cloudy	Mainly clear	Partially clear	Mainly cloudy	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	75	37	30	26	26
Wind Speed (Kmp		4	6	5	6
*Wind Direction	E	E	E	E	E
STATUS OF MON	Northerly- N, North Southerly- S, South SOON- August 1-30, 2	-Westerly- S-W, W	esterly-W, North	-westerly- N-W.	
Kolasib- 372.1m (19.16)		329.7mm Ma -28.00)	amit-376.0 mm (-20.69)	Aizawl-37 (7.3	
(-32.04)(-64.68)(-16.55)(-32.04)Weather summary of the pastWeather forecast valid from 29 <sup>th</sup> October, 2014 To 02 <sup>nd</sup>					
Weather summ	nary of the past	Weather fore	cast valid fron	n 29 <sup>th</sup> October,	· ·
	nary of the past e days		Novemb	er, 2014.	<b>2014 To 02</b> <sup>nd</sup>
		Weather fore There is no chance minimum tempera 7-13 <sup>0</sup> C. Maximum and minimum may the wind speed of a the next five days.	November of rainfall during tures for the next relative humidity from 26-75%. W	er, 2014. g the next 5 day. T 5 days may range y is expected in the ind direction would	<b>2014 To <math>02^{nd}</math></b> The maximum and for 23-28 <sup>o</sup> C ample range of 1009 d be easterly with
three	e days	There is no chance minimum tempera $7-13^{\circ}$ C. Maximum and minimum may the wind speed of the the next five days.	Novembe of rainfall during tures for the next relative humidity from 26-75%. W 5-6 km per hour.	er, 2014. g the next 5 day. T 5 days may range y is expected in th ind direction woul Light cloudy sky w rainfall: 00.0 mm	<b>2014 To 02<sup>nd</sup></b> The maximum and the for 23-28 <sup>o</sup> C and the range of 1009 and be easterly with will prevail during the maximum and the second second second the second second second second second second the second second second second second second second second second the second sec
		There is no chance minimum tempera 7-13 <sup>0</sup> C. Maximum and minimum may the wind speed of 3 the next five days. W Cultural practic Pest/Diseases	Novembe of rainfall during tures for the next relative humidity from 26-75%. W 5-6 km per hour.	er, 2014. g the next 5 day. T 5 days may range y is expected in th ind direction woul Light cloudy sky v	<b>2014 To 02<sup>nd</sup></b> The maximum and the for 23-28 <sup>o</sup> C and the range of 1009 and be easterly with will prevail during the the the second second second second the second second second second second the second second second second second second the second seco

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### **ICAR RESEARCH COMPLEX FOR NEH REGION**



	5	KOLASIB	<ul> <li>mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.</li> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	AIZAVVIL O	<ul> <li>Remove water sucker, keep 1or 2 plants in a single place.</li> <li>Remove sword sucker and use it as new planting material.</li> <li>Excess water removes from the base of the plant.</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Harvest fruits when the flower tips of the fruit debiasent.</li> </ul>
Pineapple	Vegetative stage	SERCHHI	<ul> <li>fruit dehiscent.</li> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove slips and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage		<ul> <li>The seedling should be transplant at 2 leaf stage.</li> <li>Distance should be (50X 70 cm)</li> <li>In case of dry spell use supplementary irrigation.</li> <li>FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and LAWI Blight SAIHA	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water</li> <li>2   P a g e</li> </ul>



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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



		0	at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul> <li>Weeding near the plant</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Draining of excess water and preparation</li> </ul>
			mound near the base.
	ξ	Disease: Damping off-	<ul> <li>Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
	1	Pest:	✓ Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage	AIZAWIL	<ul> <li>Trilling into bower structure.</li> <li>Weeding near the plant</li> <li>Draining of excess water and preparation mound near the base.</li> </ul>
	Į.	Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	$\checkmark$ Main land preparation for cabbage,
	P	SERCHHI	<ul> <li>Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>Fertilizer application 180:50:50 kg/ha.</li> </ul>
	Z		<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
		Mustard sawfly	<ul> <li>Application of carbofuran 3G @ 100g/m<sup>2</sup> in nursery is quite effective.</li> </ul>
Mustard and toria	Sowing	LAWNGTLAL	Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in
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		1 4 6	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)



		2	<ul> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul> <li>✓ Seed should be sown in rows 30 cm apar by drill or pora. The seed should be place at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be</li> </ul>
	}	1221	<ul><li>mixed with moist soil and kept overnigh for soaking.</li><li>✓ Full amount of phosphorus and potash and</li></ul>
	ļ	2 2	half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>Line sowing of seeds (7-10cm)</li> </ul>
	P	Damping off SERCHHI	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
	2	Leaf spot and leaf	<ul> <li>Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightl intervals.</li> <li>Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.</li> </ul>
Rice	Flowering Stage	(MM)	<ul><li>One hand weed will require.</li><li>Application of split dose of Urea.</li></ul>
		Rice Stem borer	<ul> <li>Destroy egg masses.</li> <li>Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.</li> </ul>
		Gundhi bugalha	<ul> <li>Spray monocrotophos 36 WSC @ 1.5 ml/m or endosulfan 35 EC @ 1.5 ml/ml</li> <li>Insecticide application should be done if the</li> </ul>
		KN V	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,



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Gu	æ	e he	

		A	population reaches ETL of 1 nymph of adult/ hill.
	$\sum$	KOLASIB	<ul> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/l or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at $(1-6)$ days of birth and $R_2E$ 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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LAWNGTLAL SAIHA



### **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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**District:** Aizawl

Period: 29, October-02, November, 2014

	2/2014/ Bulletin/I	English	>	Dated: 28th Oct	ober, 2014
Parameters	29-10-2014	30-10-2014	31-10-2014	01-11-2014	02-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	25	28	28	28	28
Min Temp (oC)	11	10	8	7	8
Cloud Coverage	Mainly clear	Clear sky	Partially clear	Mainly clear	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	58	45	41	38	39
Wind Speed (Kmp		4	4	4	3
*Wind Direction	E	E	E	E	E
Kolasib- 372.1m	SOON- August 1-30, 2	1	amit-376.0 mn	1	78.0mm
Kolosih 272 1m	m Champhai	220 7mm M	mit 276 0 mm	Aigowl 25	78.0mm
(19.16)		(-28.00)	(-20.69)		33)
Weather summary of the past three daysWeather forecast valid from 29th October, 2014 To 02nd November, 2014.					
three	e days				
	3	There is no chance minimum tempera 7-11 <sup>0</sup> C. Maximum	tures for the next relative humidi	t 5 days may rang ty is expected in	the range of 99 <sup>6</sup>
	5				
		the wind speed of 3 the next five days.	3-4 km per hour.	Light cloudy sky	Ĩ
	Ct.	the wind speed of 3 the next five days.	3-4 km per hour. Veekly cumulative	Light cloudy sky e rainfall: 00.0 mi	will prevail durin m
Main Crop/ Animal /Fisheries	Stage	the wind speed of 3 the next five days.	3-4 km per hour. Zeekly cumulative ces/ Agric	Light cloudy sky	will prevail durir m Itural/ animal
Animal	Stage Vegetative stage	the wind speed of 3 the next five days.	3-4 km per hour. <u>/eekly cumulative</u> ces/ Agric	Light cloudy sky <u>e rainfall:</u> 00.0 m ultural / Horticul	will prevail durir m  tural/ animal  sories



### **ICAR RESEARCH COMPLEX FOR NEH REGION**



	5	KOLASIB	<ul> <li>mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.</li> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	AIZAVAL	<ul> <li>Remove water sucker, keep 1or 2 plants in a single place.</li> <li>Remove sword sucker and use it as new planting material.</li> <li>Excess water removes from the base of the plant.</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Harvest fruits when the flower tips of the first debiasent.</li> </ul>
Pineapple	Vegetative stage	SERCHHI	<ul> <li>fruit dehiscent.</li> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove slips and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage		<ul> <li>The seedling should be transplant at 2 leaf stage.</li> <li>Distance should be (50X 70 cm)</li> <li>In case of dry spell use supplementary irrigation.</li> <li>FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and LAW/Blight SAIHA	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water</li> <li>2   P a g e</li> </ul>



### **ICAR RESEARCH COMPLEX FOR NEH REGION**

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

Guwahati)



			at 10-15 DAS are effective.
Brinjal	Fruiting stage	2	<ul> <li>Weeding near the plant</li> </ul>
			✤ Fertilizer application in split dose of
	1 1	1 8	recommended dose.
			<ul> <li>Draining of excess water and preparation</li> </ul>
		KOLASIB	mound near the base.
	1	Disease:	$\checkmark$ Seed treatment with captan, thiram or
	1	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		<b>4</b> Trilling into bower structure.
-	j magain		Weeding near the plant
	2	LAIZAVIL IC	Draining of excess water and preparation
			mound near the base.
		Scab and leaf blight	✓ Use of resistant varieties.
	1	disease	(-
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage,
	1.1		cauliflower, broccoli and knolkhol.
	12	SERCHHI	Plough the field 3-4 times.
		(~~	Planting distance, plant to plant 45 cm
		and the second	and row to row (60-70) cm
	1		Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
			🚽 🚽 Fertilizer application 180:50:50 kg/ha.
		Damping off	Seed treatment with thiram 3g/kg seed or
		LUNGLEI	Trichoderma viride 4g+ metalaxyl 4g
	1		(Apron)/ kg seed
		~ ~	✓ Drenching 1% Bordeaux mixture or 2 g
		A Vet	captan or 3 copper oxychloride/ lt of water
		21	at 10-15 DAS are effective.
		Mustard sawfly	• Application of carbofuran 3G @ $100g/m^2$
		1 LAY	in nursery is quite effective.
Mustard and	Sowing	A A A	Seed should be sown in rows 30 cm apart
toria		LAWNGTLAL	by drill or pora. The seed should be placed
		P SAIHA	at 2 to 3 cm depth. In case the moisture in
			the soil is insufficient, the seed may be
			mixed with moist soil and kept overnight
		JAI 1	for soaking.
		VIN P	3   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



		2	✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apar by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in
	Ş	42 S	the soil is insufficient, the seed may be mixed with moist soil and kept overnigh for soaking.
	1	3 54	<ul> <li>Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>Line sowing of seeds (7-10cm)</li> </ul>
	P	Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	2	Leaf spot and leaf	<ul> <li>Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightl intervals.</li> <li>Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.</li> </ul>
Rice	Flowering Stage	MN	<ul> <li>One hand weed will require.</li> <li>Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<ul> <li>Destroy egg masses.</li> <li>Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.</li> </ul>
		Gundhi bugalha	<ul> <li>Spray monocrotophos 36 WSC @ 1.5 ml/l or endosulfan 35 EC @ 1.5 ml/ml</li> <li>Insecticide application should be done if the</li> </ul>
		KN V	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)



		A	population reaches ETL of 1 nymph or adult/ hill.
	5	Leaf blast	<ul> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt</li> </ul>
		KOLASIB	or edifenphos @ 1ml/lt when first symptom are notice.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at $(1-6)$ days of birth and R <sub>2</sub> B 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



**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: 29 October -02, November, 2014

Bulletin No: -462/					
Parameters	29-10-2014	30-10-2014	31-10-2014	01-11-2014	02-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	22	27	27	27	28
Min Temp (oC)	11	9	8	8	8
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Mainly clear	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	72	43	38	35	35
Wind Speed (KmpH	4	3	4	3	3
*Wind Direction	S-E	S	S	S	S-E
	Northerly- <mark>N</mark> , North Southerly- <mark>S</mark> , South DON- August 1-30, 20	-Westerly- S-W, W	esterly-W, North	-westerly- N-W.	
Kolasib- 372.1mn (19.16)		329.7mm M	amit-376.0 mm (-20.69)		78.0mm 33)
Serchhip- 166.7 r (-32.04)	nm Lawngtalia-	365.4 mm s Lu (-64.68)		í i	·
(-32.04)		(-64.68)	inglei- 371.4 m	m Chhimtui	i <mark>pui- 367.8 mn</mark> (-32.04)
-	ary of the past	(-64.68)	inglei- 371.4 m (-16.55)	m Chhimtui h 29 <sup>th</sup> October,	i <mark>pui- 367.8 mn</mark> (-32.04)
(-32.04) Weather summa	ary of the past	(-64.68)	<b>cast valid from</b> (-16.55) <b>cast valid from</b> Novemb e of rainfall during tures for the next n relative humidity may from 35-7 the wind speed of	<b>m</b> Chhimtui h 29 <sup>th</sup> October, er, 2014. g the next 5 day. T 5 days may rang y is expected in t 2%. Wind dire f 3-4 km per hour.	ipui- 367.8 mm (-32.04) 2014 To 02 <sup>nd</sup> The maximum an e for 22-28 <sup>0</sup> C an he range of 1009 ection would b
(-32.04) Weather summa three o	ary of the past lays	(-64.68) Weather fore There is no chance minimum tempera 8-11 <sup>0</sup> C. Maximun and minimum to southeasterly with will prevail during	<b>Inglei- 371.4 m</b> (-16.55) <b>Cast valid from</b> <b>Novemb</b> e of rainfall during tures for the next n relative humidity may from 35-7 the wind speed of the next five days	<b>m</b> Chhimtui <b>h 29<sup>th</sup> October,</b> <b>er, 2014.</b> g the next 5 day. T 5 days may rang y is expected in t 2%. Wind dire 5.3.4 km per hour. 5.	ipui- 367.8 mm (-32.04) 2014 To 02 <sup>nd</sup> The maximum an e for 22-28 <sup>0</sup> C an he range of 1009 ection would b Light cloudy sk
(-32.04) Weather summa	ary of the past	(-64.68) Weather fore There is no chance minimum tempera 8-11 <sup>0</sup> C. Maximun and minimum to southeasterly with will prevail during V Cultural practic Pest/ Diseases	e of rainfall during tures for the next relative humidity may from 35-7 the wind speed of the next five days <i>Veekly cumulative</i> ces/ Agric	<b>m</b> Chhimtui h 29 <sup>th</sup> October, er, 2014. g the next 5 day. 7 5 days may rang y is expected in t 2%. Wind dire 3.4 km per hour. 3.	ipui- 367.8 mn (-32.04) 2014 To 02 <sup>nd</sup> The maximum an e for 22-28 <sup>0</sup> C an he range of 1009 ection would b Light cloudy sk m tural/ animal
(-32.04) Weather summa three of Main Crop/ Animal /Fisheries	ary of the past lays	(-64.68) Weather fore There is no chance minimum tempera 8-11 <sup>0</sup> C. Maximun and minimum to southeasterly with will prevail during V Cultural practic Pest/ Diseases	e of rainfall during tures for the next n relative humidity may from 35-7 the wind speed of the next five days <i>Veekly cumulative</i> ces/ Agrice	m Chhimtui h 29 <sup>th</sup> October, er, 2014. g the next 5 day. 7 5 days may rang y is expected in t 2%. Wind dire 3-4 km per hour. 5. <i>rainfall:</i> 00.0 mr altural / Horticul	ipui- 367.8 mm (-32.04) 2014 To 02 <sup>nd</sup> The maximum an e for 22-28 <sup>o</sup> C an he range of 1009 ection would b Light cloudy sk m tural/ animal isories

1 | Page



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

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



	5	KOLASIB	<ul> <li>mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.</li> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	AIZAVIL	<ul> <li>Remove water sucker, keep 1or 2 plants in a single place.</li> <li>Remove sword sucker and use it as new planting material.</li> <li>Excess water removes from the base of the plant.</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Harvest fruits when the flower tips of the</li> </ul>
Pineapple	Vegetative stage	SERCHHI	<ul> <li>Harvest fruits when the flower tips of the fruit dehiscent.</li> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove slips and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI	<ul> <li>3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>Weeding and intercultural operation.</li> <li>The seedling should be transplant at 2 leaf stage.</li> </ul>
	4	hat	<ul> <li>Distance should be (50X 70 cm)</li> <li>In case of dry spell use supplementary irrigation.</li> <li>FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and LAWNBlight SAIHA	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water</li> </ul>
		2 1 P	<b>2</b>   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)



Brinjal	Fruiting stage	A	at 10-15 DAS are effective.
Dingu	I I ulting stage	A CONTRACTOR OF THE OWNER	<ul> <li>Fertilizer application in split dose of</li> </ul>
	20	2	recommended dose.
	1 N.	1	
		KOLASIB	<ul> <li>Draining of excess water and preparation</li> </ul>
			mound near the base.
	1	Disease:	$\checkmark$ Seed treatment with captan, thiram or
	1	Damping off-	chlorothalonil will effectively control this
	>		disease.
		Pest:	✓ Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage	1	Trilling into bower structure.
o o n p ou		1 2	<ul> <li>Weeding near the plant</li> </ul>
	5	A ATZAWL C	Draining of excess water and preparation
		Commune 1-	mound near the base.
		Cash and haf hlight	✓ Use of resistant varieties.
	1	Scab and leaf blight	• Use of resistant varieties.
		disease	
Early Cole crop	Vegetative stage	Land preparation	$\checkmark$ Main land preparation for cabbage,
	1.1		cauliflower, broccoli and knolkhol.
	0	SERCHHI	Plough the field 3-4 times.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 John Martin	Planting distance, plant to plant 45 cm
			and row to row (60-70) cm
		S	Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
	1		Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or
		LUNGLEI	Trichoderma viride 4g+ metalaxyl 4g
	5		(Apron)/ kg seed
		~	
	5	a 2~	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/m <sup>2</sup>
		1 La Y	in nursery is quite effective.
Mustard and	Sowing	Y N H	✓ Seed should be sown in rows 30 cm apart
toria		LAWNGTLAN	by drill or pora. The seed should be placed
		P SAIHA	at 2 to 3 cm depth. In case the moisture in
		( SAINA	the soil is insufficient, the seed may be
		1215	for soaking.
		N 1 2	
			3   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)



		2	<ul> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apar by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in
	Į.	hz S	the soil is insufficient, the seed may be mixed with moist soil and kept overnigh for soaking.
	1	34	<ul> <li>Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>Line sowing of seeds (7-10cm)</li> </ul>
	P	Damping off	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
	2	Leaf spot and leaf	<ul> <li>Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightl intervals.</li> <li>Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.</li> </ul>
Rice	Flowering Stage	MN	<ul> <li>One hand weed will require.</li> <li>Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<ul> <li>Destroy egg masses.</li> <li>Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.</li> </ul>
		Gundhi bugalha	<ul> <li>Spray monocrotophos 36 WSC @ 1.5 ml/l or endosulfan 35 EC @ 1.5 ml/ml</li> <li>Insecticide application should be done if the</li> </ul>
		KN V	4   P a g e



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		$\wedge$	population reaches ETL of 1 nymph o adult/ hill.
	$\sum$	KOLASIB	<ul> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/l or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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LAWNGTLAL SAIHA



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**District:** Chhimtuipui

Period: 29, October-02, November, 2014

Bulletin No: -462					
Parameters	29-10-2014	30-10-2014	31-10-2014	01-11-2014	02-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	24	28	28	28	29
Min Temp (oC)	15	11 No. 11	9	8	8
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Partially clear	Clear sky
Max RH (%)	92	- 100	99	99	99
Min RH (%)	69	42	33	28	26
Wind Speed (Kmp	<b>H</b> ) 6	4	6	6	6
*Wind Direction	E	E	E	E	E
STATUS OF MON	Southerly- S, South SOON- August 1-30, 2				
Kolasib- 372.1n	ım Champhai-	329.7mm M	amit-376.0 mm	Aizawl-37	
(19.16)	10	(-28.00)	(-20.69)	(7.	55)
Serchhip- 166.7	mm Lawngtalia	- 365.4 mm Lu	inglei- 371.4 m	5	pui- 367.8 mn
Serchhip- 166.7 (-32.04	mm Lawngtalia	- 365.4 mm Lu (-64.68)	inglei- 371.4 m (-16.55)	Chhimtui	pui- 367.8 mn (-32.04)
Serchhip- 166.7 (-32.04 Weather sumr	mm Lawngtalia	- 365.4 mm Lu (-64.68)	inglei- 371.4 m (-16.55) cast valid fror	5	pui- 367.8 mn (-32.04)
Serchhip- 166.7 (-32.04 Weather sumr	mm Lawngtalia	- 365.4 mm Lu (-64.68) Weather fore There is no chance minimum tempera 8-15 <sup>0</sup> C. Maximum 100% and minim easterly with the v prevail during the	<b>Exact valid from</b> (-16.55) <b>Exact valid from</b> November e of rainfall durin atures for the next in relative humidin tum may from 2 vind speed of 4-6 next five days.	<b>Chhimtui</b> <b>n 29<sup>th</sup> October,</b> <b>er, 2014.</b> g the next 5 day. The t 5 days may range ty is expected in 26-69%. Wind di km per hour. Lig	<ul> <li>pui- 367.8 mn (-32.04)</li> <li>2014 To 02<sup>nd</sup></li> <li>The maximum an e for 24-29<sup>o</sup>C ar the range of 92 rection would be ht cloudy sky with the range of 92 rection</li></ul>
Serchhip- 166.7 (-32.04 Weather summ three	mm Lawngtalia anary of the past e days	- 365.4 mm Lu (-64.68) Weather fore There is no chance minimum tempera 8-15°C. Maximum 100% and minim easterly with the w prevail during the	<b>Exact valid from</b> (-16.55) <b>Exact valid from</b> <b>Novemb</b> e of rainfall durin tures for the next n relative humidi hum may from 2 vind speed of 4-6 next five days.	<b>Chhimtui</b> <b>1 29<sup>th</sup> October,</b> <b>1 29<sup>th</sup> October,</b> <b>1 5 days may rang</b> ty is expected in 26-69%. Wind di km per hour. Lig	pui- 367.8 mm (-32.04) 2014 To 02 <sup>nd</sup> The maximum ar e for 24-29 <sup>o</sup> C ar the range of 92 rection would b ht cloudy sky with
Serchhip- 166.7 (-32.04 Weather sumr	mm Lawngtalia	- 365.4 mm Lu (-64.68) Weather fore There is no chance minimum tempera 8-15°C. Maximum 100% and minim easterly with the v prevail during the V Cultural practic Pest/Disease	e of rainfall durin tures for the next n relative humidi um may from 2 vind speed of 4-6 next five days. Veekly cumulative ces/ Agric	<b>Chhimtui</b> <b>n 29<sup>th</sup> October,</b> <b>er, 2014.</b> g the next 5 day. The t 5 days may range ty is expected in 26-69%. Wind di km per hour. Lig	pui- 367.8 mm (-32.04) 2014 To 02 <sup>nd</sup> The maximum and the range of 92 rection would be the cloudy sky was n tural/animal
Serchhip- 166.7 (-32.04 Weather summ three Main Crop/ Animal	mm Lawngtalia anary of the past e days	- 365.4 mm Lu (-64.68) Weather fore There is no chance minimum tempera 8-15°C. Maximum 100% and minim easterly with the v prevail during the V Cultural practic Pest/Disease	e of rainfall durin tures for the next n relative humidi num may from 2 vind speed of 4-6 next five days.	<b>Chhimtui</b> <b>n 29<sup>th</sup> October,</b> <b>er, 2014.</b> g the next 5 day. T t 5 days may rang ty is expected in 26-69%. Wind di km per hour. Lig <i>rainfall:</i> 00.0 mr ultural / Horticul	pui- 367.8 mm (-32.04) 2014 To 02 <sup>nd</sup> The maximum and the range of 92 rection would the the cloudy sky was n tural/animal sories



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	5	KOLASIB	<ul> <li>mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water.</li> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	AIZAVIL	<ul> <li>Remove water sucker, keep 1or 2 plants in a single place.</li> <li>Remove sword sucker and use it as new planting material.</li> <li>Excess water removes from the base of the plant.</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Harvest fruits when the flower tips of the</li> </ul>
Pineapple	Vegetative stage	SERCHHI	<ul> <li>fruit dehiscent.</li> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove slips and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage		<ul> <li>The seedling should be transplant at 2 leaf stage.</li> <li>Distance should be (50X 70 cm)</li> <li>In case of dry spell use supplementary irrigation.</li> <li>FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and LAWI Blight SAIHA	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water</li> <li>2   P a g e</li> </ul>



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		A	at 10-15 DAS are effective.
Brinjal	Fruiting stage	2	<ul> <li>Weeding near the plant</li> </ul>
_			✤ Fertilizer application in split dose of
	1 1	5 5	recommended dose.
	1 12	5	<ul> <li>Draining of excess water and preparation</li> </ul>
		KOLASIB	mound near the base.
		Disease:	$\checkmark$ Seed treatment with captan, thiram or
	1	Damping off-	chlorothalonil will effectively control this
	<u> </u>		disease.
	1	Pest:	$\checkmark$ Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		Trilling into bower structure.
	1 merima i	\	Weeding near the plant
	2	A AIZAWL IC	Draining of excess water and preparation
			mound near the base.
		Scab and leaf blight	✓ Use of resistant varieties.
	4	disease	6
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage,
	- A 17		cauliflower, broccoli and knolkhol.
	02	- Concurs	Plough the field 3-4 times.
	F	SERCHHI	Planting distance, plant to plant 45 cm
			and row to row (60-70) cm
			Application of FYM $(1.5-2.0 \text{ kg/ m}^2)$
	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fertilizer application 180:50:50 kg/ha.
		Damping off	Seed treatment with thiram 3g/kg seed or
		LUNGLE	Trichoderma viride 4g+ metalaxyl 4g
	5		(Apron)/ kg seed
		~	Drenching 1% Bordeaux mixture or 2 g
	1	A 8.~	captan or 3 copper oxychloride/ It of water
			at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup>
		1 La Y	in nursery is quite effective.
Mustard and	Sowing	Y Y	Seed should be sown in rows 30 cm apart
toria	_	LAWNGTLAL	by drill or pora. The seed should be placed
			at 2 to 3 cm depth. In case the moisture in
		C SAIHA	the soil is insufficient, the seed may be
		1211	for soaking.
L]		RIN D	
			3   P a g e



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	1	2	half amount of nitrogen should be applied at the time of sowing
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		Rice Stem borer	<ul> <li>Destroy egg masses.</li> <li>Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.</li> </ul>
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		A	population reaches ETL of 1 nymph o adult/ hill.
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	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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