

ICAR RESEARCH COMPLEX FOR NEH REGION

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



strict: Kolasib

Bulletin No: -459/2014/ Bulletin/English

Period: 18-22, October, 2014

Dated: 17th October, 2014

Parameters	18-10-2014	19-10-2014	20-10-2014	21-10-2014	22-10-2014
Rainfall (mm)	0	KOU OLOUD	0	0	0
Max Temp (oC)	31	30	30	31	31
Min Temp (oC)	15	15	14	14	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	- 99	98	97	97
Min RH (%)	52	52	49	48	47
Wind Speed (KmpH)	2	2	3	4	3
*Wind Direction	Е	E	E	Е	Е
Sout STATUS OF MONSOON		and the second se	Westerly-W, North eviation from normal		
Kolasib- 372.1mm (19.16)	Champhai- 3 (-:	29.7mm 28.00)	Mamit-376.0 mm (-20.69)		7 <mark>8.0mm</mark> 33)
Serchhip- 166.7 mm (-32.04)		365.4 mm se	Lunglei- 371.4 m (-16.55)	m Chhimtui	pui- 367.8 mr (-32.04)

Weather summary of the past three days

Weather forecast valid from 18th October, 2014 To 22nd **October**, 2014.

The temperature range for maximum There is no chance of rainfall during the next 5 day. The maximum and and minimum were 29.6-30.6°C and minimum temperatures for the next 5 days may range for 30-31°C and $22.4-23.6^{\circ}C$ respectively. Mainly 14-15⁰C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 47-52%. Wind direction would be easterly Cloudy weather was observed. Wind direction is northwesterly. Maximum with the wind speed of 2-4 km per hour. Clear sky will prevail during RH observed 50-70% & minimum of the next five days. 20-21%. Rainfall recorded for the past three days is **04.3 mm**

Weekly cumulative rainfall • 00 0 mm

unce days is 04. 5	111111.	Пескі	camulative rainjatt. 00.0 mm
Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal		Pest/ Diseases	husbandry advisories
/Fisheries		/ SAIHA	
Khasi	Vegetative stage	Canker	• Prune the diseased and dead twigs.
Mandarin		I IIII	• Wound dressing with Bordeaux paste and
L		2015	

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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	AIZAVAL	 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
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		 The seedling should be transplant at 2 lea stage. Distance should be (50X 70 cm) In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and LAWI Blight SAIHA	 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
		N N N	2 P a g e



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			at 10-15 DAS are effective.
Brinjal	Fruiting stage		 ✤ Weeding near the plant
			✤ Fertilizer application in split dose of
	11	1 5	recommended dose.
	1 13		 Draining of excess water and preparation
		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:	\checkmark Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		Trilling into bower structure.
	1 merina v		Weeding near the plant
	5	E ATZAWIL IC	Draining of excess water and preparation
			mound near the base.
		Scab and leaf blight	✓ Use of resistant varieties.
	4	disease	
Early Cole crop	Vegetative stage	Land preparation	\checkmark Main land preparation for cabbage,
	A V		cauliflower, broccoli and knolkhol.
	0	SERCHH	Plough the field 3-4 times.
	5	12-1	Planting distance, plant to plant 45 cm
		15 M	and row to row (60-70) cm
			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
	L.	~	\checkmark Drenching 1% Bordeaux mixture or 2 g
		IN N	captan or 3 copper oxychloride/ lt of water
		PN	at 10-15 DAS are effective.
		Mustard sawfly	\checkmark Application of carbofuran 3G @ 100g/m ²
		1 LS Y	in nursery is quite effective.
Mustard and	Sowing	Y 1 1	✓ Seed should be sown in rows 30 cm apart
toria		LAWNGTLAL	by drill or pora. The seed should be placed
		A 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
			5 1 age



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		2	✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		 ✓ 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
	}	1221	mixed with moist soil and kept overnight for soaking.✓ Full amount of phosphorus and potash and
	Į	1 3	half amount of nitrogen should be applie at the time of sowing
Tomato	Nursery stage	Land preparation	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm)
	P	Damping off	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	2	Leaf spot and leaf	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightl intervals. Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.
Rice	Flowering Stage	MN	One hand weed will require.Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses. Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.
		Gundhi bugalha	 Spray monocrotophos 36 WSC @ 1.5 ml/m or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if th
		PN A	4 P a g e



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Guwahati)

		A	population reaches ETL of 1 nymph or adult/ hill.
	2	KOLASIB	 Judicious application of nitrogenous fertilizer. Spraying with triclozole (Beam) @0.5gm/lt 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)	 Black Quarter Vaccine (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R_2B 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)



District: Lawntalai

Bulletin No: -459/2014/ Bulletin/English

Period: 18-22, October, 2014

Dated: 17th October, 2014

August 1-30, 20 Champhai- 3 (-: Lawngtalia- 3	28.00)	esterly-W, North	in parenthesis)	0 31 16 Clear sky 99 49 5 E
17 Clear sky 99 58 3 N-E herly- N, North- herly- S, South- August 1-30, 20 Champhai- 3 (-2 Lawngtalia-	17 Clear sky 98 66 4 N-E -Easterly- N-E, Ea Westerly- S-W, W 14 (Percent of device 329.7mm Ma 28.00)	17 Clear sky 98 56 4 N-E asterly- E, South dion from normal amit-376.0 mm	17 Clear sky 98 53 6 N-E -Easterly- S-E, -westerly- N-W. in parenthesis) Aizaw1-37	16 Clear sky 99 49 5 E
Clear sky 99 58 3 N-E herly- N, North- terly- S, South- August 1-30, 20 Champhai- 3 (-:	Clear sky 98 66 4 N-E Easterly- N-E, Ea Westerly- S-W, W 14 (Percent of device 329.7mm Ma 28.00)	Clear sky 98 56 4 N-E asterly- E, South resterly-W, North ation from normal amit-376.0 mm	Clear sky 98 53 6 N-E -Easterly- S-E, -westerly- N-W. in parenthesis) Aizaw1-37	Clear sky 99 49 5 E 78.0mm
99 58 3 N-E herly- N, North- terly- S, South- August 1-30, 20 Champhai- 3 (-2 Lawngtalia-	98 66 4 N-E Easterly- N-E, Ea Westerly- S-W, W 14 (Percent of device 329.7mm Ma 28.00)	98 56 4 N-E asterly- E, South desterly-W, North ation from normal amit-376.0 mm	98 53 6 N-E -Easterly- S-E, -westerly- N-W. in parenthesis) Aizaw1-37	99 49 5 E 78.0mm
58 3 N-E herly- N, North- terly- S, South- August 1-30, 20 Champhai- 3 (-2 Lawngtalia-	66 4 N-E Easterly- N-E, Ea Westerly- S-W, W 14 (Percent of device 329.7mm Ma 28.00)	98 56 4 N-E asterly- E, South desterly-W, North ation from normal amit-376.0 mm	53 6 N-E -Easterly- S-E, -westerly- N-W. in parenthesis) Aizaw1-37	49 5 E 78.0mm
3 N-E herly- N, North- nerly- S, South- August 1-30, 20 Champhai- 3 (-2 Lawngtalia-	4 N-E Easterly- N-E, Ea Westerly- S-W, W 14 (Percent of devia 329.7mm 28.00)	4 N-E asterly- E, South vesterly-W, North ation from normal amit-376.0 mm	6 N-E -Easterly- S-E, -westerly- N-W. in parenthesis) Aizawl-37	5 E 78.0mm
N-E herly- N, North- erly- S, South- August 1-30, 20 Champhai- 3 (-: Lawngtalia-	N-E -Easterly- N-E, Ea Westerly- S-W, W 14 (<i>Percent of devia</i> 329.7mm Ma 28.00)	N-E asterly- E, South esterly-W, North ation from normal amit-376.0 mm	N-E -Easterly- S-E, -westerly- N-W. in parenthesis) Aizawl-37	E 78.0mm
herly- N, North- nerly- S, South- August 1-30, 20 Champhai- 3 (-2 Lawngtalia- 3	-Easterly- N-E, Ea Westerly- S-W, W 14 (<i>Percent of devid</i> 329.7mm Ma 28.00)	asterly- E, South Vesterly-W, North ation from normal amit-376.0 mm	-Easterly- S-E, -westerly- N-W. in parenthesis) Aizawl-37	78.0mm
August 1-30, 20 Champhai- 3 (-: Lawngtalia- 3	Westerly- S-W, W 14 (Percent of devia 329.7mm Ma 28.00)	esterly-W, North ation from normal amit-376.0 mm	in parenthesis)	
Lawngtalia-	28.00)			
(-64.68)	inglei- 371.4 m (-16.55)	m Chhimtui	ipui- 367.8 mn (-32.04)
of the past		Octobe	h 18 th October, r, 2014.	
n 1 a v	ninimum tempera 17 ⁰ C. Maximum r and minimum may with the wind spee he next five days.	tures for the next elative humidity from 49-66%. W ed of 3-6 km per	5 days may range is expected in the ind direction wou hour. Clear sky v	e for 30 ⁰ C and 10 e range of 98-999 Ild be northeaster will prevail durir
		minimum tempera 17 ⁰ C. Maximum r and minimum may with the wind spec the next five days.	minimum temperatures for the next 17 ⁰ C. Maximum relative humidity and minimum may from 49-66%. W with the wind speed of 3-6 km per the next five days.	There is no chance of rainfall during the next 5 day. minimum temperatures for the next 5 days may rang 17 ^o C. Maximum relative humidity is expected in the and minimum may from 49-66%. Wind direction wou with the wind speed of 3-6 km per hour. Clear sky the next five days. <i>Weekly cumulative rainfall:</i> 00.0 m

		пескі	<i>cumulative rainjati</i> . 00.0 mm
Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal		Pest/ Diseases	husbandry advisories
/Fisheries		/ SAIHA	
Khasi	Vegetative stage	Canker	• Prune the diseased and dead twigs.
Mandarin		I I I	• Wound dressing with Bordeaux paste and
		EN S	

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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	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		 The seedling should be transplant at 2 lear stage. Distance should be (50X 70 cm) In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and LAW Blight SAIHA	 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



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		0	at 10.15 DAS are affective
Brinjal	Fruiting stage	KOLASIB Disease: Damping off-	 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. Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
Compos	Emiting stops	Pest: Mites and hoppers-	 ✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAVIL	 Trilling into bower structure. Weeding near the plant Draining of excess water and preparation mound near the base.
	1	Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation SERCHHI	 Main land preparation for cabbage, cauliflower, broccoli and knolkhol. 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.
	2	Damping off LUNGLEI Mustard sawfly	 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. Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
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 the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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		2	✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		 ✓ 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
	}	1222	mixed with moist soil and kept overnigh for soaking.✓ Full amount of phosphorus and potash and
		2 3	half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm)
	F	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.
		Leaf spot and leaf	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightly intervals. Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.
Rice	Flowering Stage	M	One hand weed will require.Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses. Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.
		Gundhi bugalha	 Spray monocrotophos 36 WSC @ 1.5 ml/l or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the
		KN V	4 P a g e



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		A	population reaches ETL of 1 nymph or adult/ hill.
	5	KOLASIB	 Judicious application of nitrogenous fertilizer. Spraying with triclozole (Beam) @0.5gm/lt 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)	 Black Quarter Vaccine (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R_2B 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)



District: Lunglei

Bulletin No: -459/2014/ Bulletin/English

Period: 18-22, October, 2014

Dated: 17th October, 2014

	5 1	1 C	2		
Parameters	18-10-2014	19-10-2014	20-10-2014	21-10-2014	22-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	31	30	30	30	31
Min Temp (oC)	16	15	15	15	15
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	99	99	99	100
Min RH (%)	53	62	52	50	45
Wind Speed (Km	pH) 2	3	4	5	4
*Wind Direction	N-E	E	E	Е	Е
STATUS OF MON	Northerly- N, Nort Southerly- S, South	n-Westerly- <mark>S-W</mark> , W	esterly-W, North	-westerly- N-W.	
STATUS OF MOD	NSOON- August 1-30, 2	014 (Percent of devic	anon from normal	in parenthesis)	
Kolasib- 372.11 (19.16)		329.7mm Ma (-28.00)	amit-376.0 mm (-20.69)		78.0mm 33)
(-32.0		(-64.68)	nglei- 371.4 m (-16.55) cast valid fron	ļ	ipui- 367.8 mn (-32.04)
	mary of the past	weather fore			2014 10 22
thre	ee days		Octobe	/	
		There is no chance minimum tempera 15-16 ⁰ C. Maximu 100% and minim northeasterly with prevail during the	tures for the next m relative humid um may from 4 the wind speed of	5 days may rang ity is expected in 5-62%. Wind di of 2-5 km per hou	e for 30-31 [°] C and the range of 99 frection would b ar. Clear sky wi
Main Crop/	Stage	Cultural practic		ultural / Horticul	
Animal /Fisheries	Juge	Pest/ Diseases	0	husbandry advi	
Khasi	Vegetative stage	Canker		e diseased and dea	ad twigs.
Mandarin		(dressing with Bo	•
		NN			
		NY Y	1º		1 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	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.
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.
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.
Vegetative stage		 The seedling should be transplant at 2 leaf stage. Distance should be (50X 70 cm) In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
	Damping off and LAW Blight SAIHA	 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
-	harvesting MAMIT Vegetative stage	Vegetative/ harvesting MAMIT MAMIT MAMIT Vegetative stage SERCHHI Vegetative stage SERCHHI Vegetative stage LUNGLEI Damping off and Blight Damping off and



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		✤ Weeding near the plant
Ŭ			✤ Fertilizer application in split dose of
	11	1 5	recommended dose.
	1 10		 Draining of excess water and preparation
		KOLASIB	mound near the base.
	1	Disease:	\checkmark Seed treatment with captan, thiram or
	1	Damping off-	chlorothalonil will effectively control this
	<u> </u>		disease.
		Pest:	\checkmark Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		4 Trilling into bower structure.
-	J MAMMIT	1	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.
	2	disease	
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage,
JF			cauliflower, broccoli and knolkhol.
	12		Plough the field 3-4 times
	1	SERCHHI	4 Planting distance, plant to plant 45 cm
		No. Com	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	\checkmark Application of carbofuran 3G @ 100g/m ²
		1 La Y	in nursery is quite effective.
Mustard and	Sowing	Y Y	Seed should be sown in rows 30 cm apart
toria	0	Langer and	by drill or pora. The seed should be placed
		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.
L		A NA	
		1 1 1	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	 ✓ 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 apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in
	2	43 - 5	the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.
		545	✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	1 2	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm)
	F	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.
	2	Leaf spot and leaf	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given forthnightly intervals. Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage	MN	 One hand weed will require. Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses. Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bugaiha	 Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the
		KN V	4 P a g e



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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	 Judicious application of nitrogenous fertilizer. Spraying with triclozole (Beam) @0.5gm/l 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)	 Black Quarter Vaccine (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ I 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)



District: Mamit

Bulletin No: -459/2014/ Bulletin/English

Period: 18-22, October, 2014

Dated: 17th October, 2014

Parameters	18-10-2014	19-10-2014	20-10-2014	21-10-2014	22-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	30	30	30	30	31
Min Temp (oC)	17	17	17	17	16
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	- 98	98	98	99
Min RH (%)	58	66	56	53	49
Wind Speed (KmpH)	3	4	4	6	5
*Wind Direction	N-E	N-E	N-E	N-E	E
Kolasib- 372.1mm (19.16) Serchhip- 166.7 mm (-32.04)	a Lawngtalia-	28.00)	amit-376.0 mm (-20.69) Inglei- 371.4 m (-16.55)	(7.	78.0mm 33) ipui- 367.8 mn (-32.04)
Weather summary three day	of the past	1100 1100	cast valid from Octobe	,	
		ninimum tempera 6-17 ⁰ C. Maximu 99% and minimu	e of rainfall during atures for the next im relative humid um may from 49 the wind speed of next five days.	5 days may rang ity is expected in 9-66%. Wind di	te for 30-31 ⁰ C and the range of 98 rection would b

Weekly cumulative rainfall: 00.0 mm

		Treent,	y cantatative ranjati. 00.0 mm
Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal		Pest/ Diseases	husbandry advisories
/Fisheries		/ SAIHA	
Khasi	Vegetative stage	Canker	• Prune the diseased and dead twigs.
Mandarin		1	• Wound dressing with Bordeaux paste and
		R N S	AL TO A
			1 D

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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)



	5	1 3	 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		 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 debiscent
Pineapple	Vegetative stage		 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		 The seedling should be transplant at 2 lea stage. Distance should be (50X 70 cm) In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and AWI Blight SAIHA	 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
		Y Y Y	2 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)



			at 10-15 DAS are effective.
Brinjal	Fruiting stage		 ♦ Weeding near the plant
Ŭ			✤ Fertilizer application in split dose of
	11	1 5	recommended dose.
	1 10		 Draining of excess water and preparation
		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		4 Trilling into bower structure.
-	J MAMIT		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,
			cauliflower, broccoli and knolkhol.
	12		Plough the field 3-4 times
	1	SERCHHI	4 Planting distance, plant to plant 45 cm
	1	No. Com	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
			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	 ✓ 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 apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in
	2	43 - 5	the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.
	1	54	✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	1 2	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm)
	F	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.
	2	Leaf spot and leaf	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given forthnightly intervals. Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage	MN	 One hand weed will require. Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses. Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bugaiha	 Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the
		KN Y	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.
	\sum	KOLASIB	 Judicious application of nitrogenous fertilizer. Spraying with triclozole (Beam) @0.5gm/lt 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)	 Black Quarter Vaccine (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at $(1-6)$ days of birth and R_2B 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)



District: Serchhip

Period: 18-22, October, 2014

Bulletin No: -459/2014/ Bulletin/English Dated: 17th October, 2014 18-10-2014 20-10-2014 **Parameters** 19-10-2014 21-10-2014 22-10-2014 Rainfall (mm) 0 0 0 0 0 Max Temp (oC) 31 30 30 30 31 Min Temp (oC) 16 15 15 15 15 **Cloud Coverage** Clear sky Clear sky Clear sky Clear sky Clear sky Max RH (%) 100 99 99 99 100 **Min RH (%)** 53 52 50 45 62 Wind Speed (KmpH) 2 3 4 5 4 ***Wind Direction** N-E E E E Е Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W. STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis) Kolasib- 372.1mm Champhai- 329.7mm **Mamit-376.0 mm** Aizawl-378.0mm (19.16)(-28.00)(-20.69)(7.33)Serchhip- 166.7 mm Lawngtalia- 365.4 mm Lunglei- 371.4 mm Chhimtuipui- 367.8 mm (-16.55)(-32.04)(-64.68)(-32.04)Weather forecast valid from 18th October, 2014 To 22nd Weather summary of the past three days **October**, 2014. There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 15-16[°]C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 45-62%. Wind direction would be northeasterly with the wind speed of 2-5 km per hour. Clear sky will prevail during the next five days. Weekly cumulative rainfall: 00.0 mm Cultural practices/ Agricultural / Horticultural/ animal Main Cron/ Stage

Animal /Fisheries	Stuge	Pest/ Diseases	husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	 Prune the diseased and dead twigs. Wound dressing with Bordeaux paste and
		PN J	Y

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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)



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.
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.
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.
Vegetative stage		 The seedling should be transplant at 2 leaf stage. Distance should be (50X 70 cm) In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
	Damping off and LAW Blight SAIHA	 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
-	harvesting MAMIT Vegetative stage	Vegetative/ harvesting MAMIT MAMIT MAMIT Vegetative stage SERCHHI Vegetative stage SERCHHI Vegetative stage LUNGLEI Damping off and Blight Damping off and



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		✤ Weeding near the plant
Ŭ			✤ Fertilizer application in split dose of
	11	1 5	recommended dose.
	1 10		 Draining of excess water and preparation
		KOLASIB	mound near the base.
	1	Disease:	\checkmark Seed treatment with captan, thiram or
	1	Damping off-	chlorothalonil will effectively control this
	<u> </u>		disease.
		Pest:	\checkmark Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		4 Trilling into bower structure.
-	J MAMMIT	1	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.
	2	disease	
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage,
JF			cauliflower, broccoli and knolkhol.
	12		Plough the field 3-4 times
	1	SERCHHI	4 Planting distance, plant to plant 45 cm
		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	\checkmark Application of carbofuran 3G @ 100g/m ²
		1 La Y	in nursery is quite effective.
Mustard and	Sowing	Y Y	Seed should be sown in rows 30 cm apart
toria	0	Langer and	by drill or pora. The seed should be placed
		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.
L		A NA	
		1 1 1	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	 ✓ 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 apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in
	2	43 - 5	the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.
		545	✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	1 2	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm)
	F	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.
	2	Leaf spot and leaf	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given forthnightly intervals. Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage	MN	 One hand weed will require. Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses. Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bugaiha	 Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the
		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	KOLASIB	 Judicious application of nitrogenous fertilizer. Spraying with triclozole (Beam) @0.5gm/l 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)	 Black Quarter Vaccine (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ I 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)



2014

Period: 18-22, October,

District: Aizawl

Bulletin No: -45	9/2014/ Bulletin/	English	>	Dated: 17 th Oct	ober, 2014
Parameters	18-10-2014	19-10-2014	20-10-2014	21-10-2014	22-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	31	30	30	30	31
Min Temp (oC)	14	14	13	13	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	99	99	99
Min RH (%)	53	56	51	49	47
Wind Speed (Km)		2	2	4	3
*Wind Direction	E	E	Ē	E	Ē
STATUS OF MON	Southerly- N, Nor Southerly- S, Sout NSOON- August 1-30, 2		esterly-W, North	n-westerly- N-W.	
Kolasib- 372.1r		329.7mm Ma	amit-376.0 mm	1	'8.0mm
(19.16)	1	(-28.00)	(-20.69)	(7.	33)
Weather summary of the past three daysWeather forecast valid from 18th October, 2014 To 22nd October, 2014.					
There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for $30-31^{\circ}$ C and $12-14^{\circ}$ C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 47-56%. Wind direction would be					
		easterly with the w	vind speed of 2-4	km per hour. Cle	ar sky will preva
during the next five days. Weekly cumulative rainfall: 00.0 mm					
Main Crop/	Stage	Cultural practic		ultural / Horticul	
Animal /Fisheries	0	Pest/ Diseases	0	husbandry advi	
Khasi	Vegetative stage	Can ker	• Prune th	e diseased and dea	ad twigs.
Mandarin		• Wound dressing with Bordeaux paste			ordeaux paste ar
		2 N	1		
		NY NY	100		1 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)



	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
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		 The seedling should be transplant at 2 lea stage. Distance should be (50X 70 cm) In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and AWI Blight SAIHA	 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
		N K N	2 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared b from IMD,



based on District wise	Weather	Forecast	received
Gu	wahati)		

		0	at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	 Weeding near the plant Fertilizer application in split dose of recommended dose. Draining of excess water and preparation mound near the base.
	}	Disease: Damping off-	 Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
	1	Pest: Mites and hoppers-	 ✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWIL	 Trilling into bower structure. Weeding near the plant Draining of excess water and preparation mound near the base.
	1	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. 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.
		Damping off LUNGLEI	 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.
		Mustard sawfly	Application of carbofuran 3G @ $100g/m^2$ in nursery is quite effective.
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 the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.
		V L P	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	 ✓ 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 the soil is insufficient, the seed may be
	}	1222	mixed with moist soil and kept overnigh for soaking.✓ Full amount of phosphorus and potash and
	Į	23	half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm)
	P	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.
		Leaf spot and leaf	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightl intervals. Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.
Rice	Flowering Stage	MN	 One hand weed will require. Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses. Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.
		Gundhi bugalha	 Spray monocrotophos 36 WSC @ 1.5 ml/l or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the
		KN V	4 P a g e



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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	 Judicious application of nitrogenous fertilizer.
		KOLASIB	 Spraying with triclozole (Beam) @0.5gm/lt 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)	 Black Quarter Vaccine (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R_2B 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)



District: Champhai

Bulletin No: -459/2014/ Bulletin/English

Period: 18-22, October, 2014

Dated: 17th October, 2014

Parameters	18-10-2014	19-10-2014	20-10-2014	21-10-2014	22-10-2014
Rainfall (mm)	0	корозв	0	0	0
Max Temp (oC)	30	29	29	29	30
Min Temp (oC)	15	14	13	13	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	52	58	52	49	45
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	S-E	S-E	S	S-E	S-E
(19.16) Serchhip- 166.7 mm (-32.04)	1 Lawngtalia-	28.00) 365.4 mm Lu -64.68)	(-20.69) Inglei- 371.4 m (-16.55)	í i	33) pui- 367.8 mr (-32.04)
Weather summary three day		Weather fore		n 18 th October, r, 2014.	2014 To 22 nd
	S 1	ninimum tempera	tures for the next	g the next 5 day. 7 5 days may rang ty is expected in t	e for 29-30 ⁰ C ar

Weekly cumulative rainfall: 00.0 mm

		Weekty cumulative rainjati. 00.0 mm		
Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal	
Animal		Pest/ Diseases	husbandry advisories	
/Fisheries		/ SAIHA		
Khasi	Vegetative stage	Canker	• Prune the diseased and dead twigs.	
Mandarin		1	• Wound dressing with Bordeaux paste and	
		2015		
		NO NO P	1 D	

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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)



	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		 The seedling should be transplant at 2 lea stage. Distance should be (50X 70 cm) In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and LAW/Blight SAIHA	 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
		N S C	2 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)



			at 10-15 DAS are effective.
Brinjal	Fruiting stage		✤ Weeding near the plant
-			* Fertilizer application in split dose of
	2.1	1 8	recommended dose.
		7	 Draining of excess water and preparation
		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:	\checkmark Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		Trilling into bower structure.
	2	And the second sec	Weeding near the plant
	2	(AIZAWL)	Draining of excess water and preparation
			mound near the base.
	(Scab and leaf blight	\checkmark Use of resistant varieties.
	4	disease	
Early Cole crop	Vegetative stage	Land preparation	\checkmark Main land preparation for cabbage,
	1.5		cauliflower, broccoli and knolkhol.
	0	SERCHH	Plough the field 3-4 times.
		12-11-11-11-11-11-11-11-11-11-11-11-11-1	Planting distance, plant to plant 45 cm
			and row to row (60-70) cm
)		Application of FYM (1.5-2.0 kg/ m ²)
		N	Fertilizer application 180:50:50 kg/ha.
		Damping off	Seed treatment with thiram 3g/kg seed or
	1	LUNGLEI	Trichoderma viride 4g+ metalaxyl 4g
	1		(Apron)/ kg seed
	L.	~	✓ Drenching 1% Bordeaux mixture or 2 g
		A A	captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
		Mustard sawfly	\checkmark Application of carbofuran 3G @ 100g/m ²
		1 LS Y	in nursery is quite effective.
Mustard and	Sowing	A No II	✓ Seed should be sown in rows 30 cm apart
toria		LAWNGTLAL	by drill or pora. The seed should be placed
		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
		12.1	for soaking.
		K K K	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)



		~	 ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		 ✓ 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
	ł	217	 mixed with moist soil and kept overnigh for soaking. ✓ Full amount of phosphorus and potash and
	[1 21	half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm)
	f	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.
	2	Leaf spot and leaf	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightly intervals. Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.
Rice	Flowering Stage	M	 One hand weed will require. Application of split dose of Urea.
		Rice Stem borer	 Destroy egg masses. Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.
		Gundhi bugaliha	 Spray monocrotophos 36 WSC @ 1.5 ml/l or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the
		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.
	2	KOLASIB	 Judicious application of nitrogenous fertilizer. Spraying with triclozole (Beam) @0.5gm/lt 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)	 Black Quarter Vaccine (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R_2B 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)



District: Chhimtuipui

Bulletin No: -459/2014/ Bulletin/English

Period: 18-22, October, 2014

Dated: 17th October, 2014

Parameters	18-10-2014	19-10-2014	20-10-2014	21-10-2014	22-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	30	30	30	30	31
Min Temp (oC)	15	15	15	15	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	99	100
Min RH (%)	53	64	53	47	42
Wind Speed (KmpH)	2	2	4	6	4
*Wind Direction	N-E	E	Е	Е	Е
STATUS OF MONSOO Kolasib- 372.1mm (19.16)	Champhai- 3	1	amit-376.0 mm (-20.69)	Aizawl-37	78.0mm 33)
Serchhip- 166.7 mm (-32.04)		365.4 mm Lu -64.68)	inglei- 371.4 m (-16.55)	m Chhimtui	ipui- 367.8 mı (-32.04)
Weather summary three day		Weather fore	cast valid from October	· · · · · · · · · · · · · · · · · · ·	2014 To 22 nd
		ninimum tempera 4-15 ⁰ C. Maximu 00% and minim ortheasterly with prevail during the	e of rainfall during tures for the next m relative humid tum may from 4 the wind speed of next five days.	5 days may rang ity is expected in 2-63%. Wind di of 2-6 km per hou	te for 30-31 [°] C at the range of 9 frection would tur. Clear sky w

	Weekly cumulative rainfall: 00.0 mm		
Stage	Cultural practices/	👆 Agricultural / Horticultural/ animal	
	Pest/ Diseases	husbandry advisories	
	/ SAIHA		
Vegetative stage	Canker	• Prune the diseased and dead twigs.	
	I I I	• Wound dressing with Bordeaux paste and	
	PN S		
		Stage Cultural practices/ Pest/ Diseases	

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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	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		 The seedling should be transplant at 2 lea stage. Distance should be (50X 70 cm) In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and LAWI Blight SAIHA	 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
		N S M	2 P a g e



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		A	at 10-15 DAS are effective.
Brinjal	Fruiting stage		✤ Weeding near the plant
	Ŭ,		✤ Fertilizer application in split dose of
	1 1	1 5	recommended dose.
	1 12		 Draining of excess water and preparation
		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:	\checkmark Sulfur fungicides can be used to control
		Mites and hoppers-	this pest.
Cowpea	Fruiting stage		Trilling into bower structure.
	1 merina r	1	Weeding near the plant
	2	A ATZAWIL 10	Draining of excess water and preparation
			mound near the base.
		Scab and leaf blight	✓ Use of resistant varieties.
	4	disease	
Early Cole crop	Vegetative stage	Land preparation	\checkmark Main land preparation for cabbage,
	1.1		cauliflower, broccoli and knolkhol.
	0	SERCHH	Plough the field 3-4 times.
		(~~	Planting distance, plant to plant 45 cm
			and row to row (60-70) cm
	3		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 NOT	captan or 3 copper oxychloride/ lt of water
		2	at 10-15 DAS are effective.
		Mustard sawfly	• Application of carbofuran 3G @ $100g/m^2$
		1 LI Y	in nursery is quite effective.
Mustard and	Sowing		✓ Seed should be sown in rows 30 cm apart
toria		LAWNGTLAL	by drill or pora. The seed should be placed
		SAIHA	at 2 to 3 cm depth. In case the moisture in
		Alla (the soil is insufficient, the seed may be
			mixed with moist soil and kept overnight
		A R I	for soaking.
		K K P	3 P a g e



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	1	~	 ✓ 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 the soil is insufficient, the seed may be
	}	211	 mixed with moist soil and kept overnigh for soaking. ✓ Full amount of phosphorus and potash and
			half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm)
	f	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.
	2	Leaf spot and leaf	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-sprayings should be given forthnightly intervals. Spraying of Blitox @ 3 g/l of water wa found effective against leaf spot.
Rice	Flowering Stage	EN	One hand weed will require.Application of split dose of Urea.
			 Destroy egg masses. Spraying of monocrotophos 20ml/10lt wate or Imidacloprid 20ml/10lt water.
		Gundhi bugalha	 Spray monocrotophos 36 WSC @ 1.5 ml/l or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the
		KN V	4 P a g e



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		2	population reaches ETL of 1 nymph or adult/ hill.
	5	Leaf blast	 Judicious application of nitrogenous fertilizer. Summing with triplacely (Decay) @0.5 cm/lt
		KOLASIB	 Spraying with triclozole (Beam) @0.5gm/lt 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)	 Black Quarter Vaccine (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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