

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Chhimtuipui

Period: 01 - 05, November, 2014

Dated: 31st October, 2014

Bulletin No: -463/2014/ Bulletin/English

Parameters	01-11-2014	02-11-2014	03-11-2014	04-11-2014	05-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	29	30	30	30	29
Min Temp (oC)	14	13	13	12	10
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	48	48	43	43	41
Wind Speed (KmpH)	2	2	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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 (-32.04) (-64.68) (-16.55) (-32.04)

Weather sum	mary of the past	Weather forecast valid from 01 st November, 2014 To 05 th		
thre	ee days		November, 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 29-30°C and 10-14°C. Maximum relative humidity is expected in the range of 100% and minimum may from 41-43%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clean sky will prevail during the next five days. Weekly cumulative rainfall: 00.0 mm		
Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal	
Animal /Fisheries		Pest/ Diseases	husbandry advisories	
Khasi	Vegetative stage	Can ker	Prune the diseased and dead twigs.	
Mandarin			• Wound dressing with Bordeaux paste and	

1 | P a g e

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			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
		KOLASIB	plant.
Banana	Vegetative/		✓ Remove water sucker, keep 1 or 2 plants in a
	harvesting	W/S	single place.
	5	2 1	✓ Remove sword sucker and use it as new
	3	530006	planting material.
			✓ Excess water removes from the base of the
	3		plant.
	7 MAMIT	(4)	✓ Fertilizer application in split dose of
	3	(AIZAVVL CI	recommended dose.
			✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	()	 Clean the vicinity of plants by weeding and
Тпеарріс	vegetative stage		loosen up the soil.
) 6		Remove slips and use it as a new planting
	((material.
		SERCHHIP	o Sucker dipping treatment with Bavistin @
		V	3g + Chloropyriphos @ 1 g/lt of water to
	(protect against soil borne disease and
		100	insect.
			o Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	The seedling should be transplant at 2 leaf
	3		stage.
	V	500	Distance should be (50X 70 cm)
		A	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	✓ Seed treatment with thiram 3g/kg seed or
		LAW/Blight	Trichoderma viride 4g+ metalaxyl 4g
		SAIHA	(Apron)/ kg seed
			✓ Drenching 1% Bordeaux mixture or 2 g
		1	captan or 3 copper oxychloride/ lt of water

2 | Page

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			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.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAVVL	 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	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
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3 | Page

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			✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied
		for the second	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 the soil is insufficient, the seed may be mixed with moist soil and kept overnight 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.
		AIZAVIL	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)
		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, 2-3 sprayings should be given forthnightly intervals. Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage	40	✓ 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 bugatha	 Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the

4 | Page

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		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	1. Culling of positive pigs or piglets.
	5	Reproductive	7
	1	Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	l,		 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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5 | P a g e

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LAWNGTLAL

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6 | Page

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strict: Kolasib Period: 01-05, November, 2014

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	10.5%				
Parameters	01-11-2014	02-11-2014	03-11-2014	04-11-2014	05-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	29	29	30	30	29
Min Temp (oC)	11	12	12	12	11
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	97	97	98	98
Min RH (%)	50	48	47	46	46
Wind Speed (KmpH)	3	4	3	3	3
*Wind Direction	E	E	E	E	E

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

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

(-28.00)

Kolasib- 372.1mm (19.16)

Champhai- 329.7mm

Mamit-376.0 mm (-20.69)

Aizawl-378.0mm (7.33)

Dated: 31st October, 2014

Serchhip- 166.7 mm (-32.04)

Lawngtalia- 365.4 mm Lunglei- 371.4 mm (-64.68)

(-16.55)

Chhimtuipui- 367.8 mm (-32.04)

Weather summary of the past three days

The temperature range for maximum and minimum were 24.6-28.2°C and $17.2 - 20.0^{\circ}$ C respectively. Dense cloudy sky was observed. Wind direction is easterly. Maximum RH observed 67-72% & minimum of 20-36%. Rainfall recorded for the past

three days is **00.0mm**.

Weather forecast valid from 01st November, 2014 To 05th November, 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 29-30°C and 11-12°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 46-50%. Wind direction would be easterly with the wind speed of 3-4 km per hour. Clean sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal		Pest/ Diseases	husbandry advisories
/Fisheries		F SAIHA	\
Khasi	Vegetative stage	Canker	 Prune the diseased and dead twigs.
Mandarin			• Wound dressing with Bordeaux paste and

1 | Page

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		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.
	3 \	• Excess water removes from the base of the
		Plant.
Banana	Vegetative/	Remove water sucker, keep 1 or 2 plants in a
	harvesting	single place.
	(✓ Remove sword sucker and use it as new
	 	planting material.
	1	✓ Excess water removes from the base of the
		plant.
	J' MAMIT	✓ Fertilizer application in split dose of
	5	recommended dose.
		✓ Harvest fruits when the flower tips of the
	1	fruit dehiscent.
Pineapple	Vegetative stage	o Clean the vicinity of plants by weeding and
	\ ~	loosen up the soil.
	\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	o Remove slips and use it as a new planting material.
		SERCHHIPO Sucker dipping treatment with Bavistin @
		3g + Chloropyriphos @ 1 g/lt of water to
	1	protect against soil borne disease and
		insect.
	1	• Weeding and intercultural operation.
Cucurbits	Vegetative stage	The seedling should be transplant at 2 leaf
	7	stage.
	1	Distance should be (50X 70 cm)
	5	In case of dry spell use supplementary
		irrigation.
	1	FYM application @400gm/pit along with
	9	recommended fertilizer dose 100:50:50
		kg/ha
		Damping off and ✓ 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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2 | Page

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			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.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAVVL	 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	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/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
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3 | Page

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Tomato Nursery stage Land preparation Nursery stage Damping off Damping off Damping off At the time of 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 mixed with moist soil and kept overnight for soaking. Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing Vivin 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) 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.				✓	Full amount of phosphorus and potash and
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Gundhi bugalha Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml			LAWNGTLAL		
or endosulfan 35 EC @ 1.5 ml/ml					
■ Insecticide application should be done if the					
**				•	Insecticide application should be done if the

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		A	population reaches ETL of 1 nymph or adult/ hill.
	57	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	1. Culling of positive pigs or piglets.
	5	Reproductive	
	1	Respiratory Syndrome (PRRS).	(
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	A MAMIT		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).
	, and the second	3 66	 Primary vaccination 6 month or above
		1 1	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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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Dated: 31st October, 2014

District: Lawntalai Period: 01 - 05, November, 2014

Bulletin No: -463/2014/ Bulletin/English

Parameters	01-11-2014	02-11-2014	03-11-2014	04-11-2014	05-11-2014
Rainfall (mm)	0	0 0	0	0	0
Max Temp (oC)	29	29	30	30	29
Min Temp (oC)	15	15	14	14	12
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	98	98	97	98
Min RH (%)	53	52	49	49	47
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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 (-32.04) (-64.68) (-16.55) (-32.04)

Weather sum	mary of the past	Weather forecast valid from 01 st November, 2014 To 05 th		
thre	ee days		November, 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 29-30°C and 12-15°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 47-53%. Wind direction would be easterly with the wind speed of 4 km per hour. Clean sky will prevail during the next five days. Weekly cumulative rainfall: 00.0 mm	
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories	
Khasi Mandarin	Vegetative stage	Canker	Prune the diseased and dead twigs.Wound dressing with Bordeaux paste and	

1 | Page

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2 | Page

• For canker, spray streoptomycin 2g + copperoxycholoride 8 g /10 lt of water. • Excess water removes from the base of the plant. • Remove water sucker, keep 1 or 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. • 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 UNGLE In case of dry spell use supplementary irrigation. • FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha			mulch with dry grass to conserve moisture
Cucurbits Copperoxycholoride 8 g /10 lt of water.			and suppress the growth of weed.
Banana Vegetative/ harvesting Vegetative/ harvesting Vegetative/ harvesting Vegetative/ harvesting Pineapple Vegetative stage Vegetative stage Vegetative stage Cucurbits Vegetative stage • Excess water removes from the base of the plant. SERCHHOO Cucurbits Pineapple Vegetative stage • Excess water removes from the base of the plant. Cucurbits Pineapple Vegetative stage • Excess water removes from the base of the plant. Cucurbits Fineapple Vegetative stage • 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 In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha			
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Cucurbits 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		3	
Cucurbits 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			
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	Cucurhite	Vogotativo stago	The seed it is a should be to seed at the 2 leaf
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	Cucuibits	vegetative stage	The first to the f
In case of dry spell use supplementary irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha		1	
irrigation. FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha		7	
FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha			
recommended fertilizer dose 100:50:50 kg/ha			
kg/ha			
Downing off and Cood treatment with things 20/100 and an			
Damping of and Seed treatment with thiram 3g/kg seed or			Damping off and ✓ Seed treatment with thiram 3g/kg seed or
LAW Blight Trichoderma viride 4g+ metalaxyl 4g			
SAIHA (Apron)/ kg seed			1 / 6
✓ Drenching 1% Bordeaux mixture or 2 g			
captan or 3 copper oxychloride/ lt of water			captan or 3 copper oxychloride/ lt of water

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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)



			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.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAVVL	 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	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
		10 X	2 D o g o

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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)



4 | P a g e

		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 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. ✓ 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)
		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.
	1	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		✓ 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 bugatha	 Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the

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Mizoram Centre, Kolasib- 796081, MIZORAM





		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	1. Culling of positive pigs or piglets.
	5	Reproductive	
	1	Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	J MAMIT		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).
	1		 Primary vaccination 6 month or above
		() 1	 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat

LUNGLE

LAWNGTLAL SAIHA

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM





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LAWNGTLAL

SAIHA

6 | Page

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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)



Dated: 31st October, 2014

District: Lunglei Period: 01- 05, November, 2014

Bulletin No: -463/2014/ Bulletin/English

Parameters	01-11-2014	02-11-2014	03-11-2014	04-11-2014	05-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	29	29	30	30	29
Min Temp (oC)	14	13	13	12	10
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	99	99	99	99
Min RH (%)	52	49	46	46	42
Wind Speed (KmpH)	4	4	4	3	4
*Wind Direction	E	E	S-E	E	E

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

STATUS OF MONSOON- 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 (-32.04) (-64.68) (-16.55) (-32.04)

Weather sum	Weather summary of the past		Weather forecast valid from 01 st November, 2014 To 05 th		
thre	ee days		November, 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 29-30°C and 10-14°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 42-52%. Wind direction would be easterly with the wind speed of 3-4 km per hour. Clean sky will prevail during the next five days. Weekly cumulative rainfall: 00.0 mm		
Main Crop/ Stage Animal /Fisheries		Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
Khasi Mandarin	Vegetative stage	Canker	Prune the diseased and dead twigs.Wound dressing with Bordeaux paste and		

1 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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.
) \	2	• Excess water removes from the base of the
		KOLASIB	plant.
Banana	Vegetative/		✓ Remove water sucker, keep 1 or 2 plants in a
	harvesting	W.)	single place.
	\$	2 1	✓ Remove sword sucker and use it as new
	}	STATE OF THE STATE	planting material.
			✓ Excess water removes from the base of the
	₹		plant.
	7 MAMIT	1	✓ Fertilizer application in split dose of
	8	AIZAVIL C	recommended dose.
	1	No.	Harvest fruits when the flower tips of the
D: 1	T 7		fruit dehiscent.
Pineapple	Vegetative stage		o Clean the vicinity of plants by weeding and
) ~	V 3 A	loosen up the soil.
	1.5		o Remove slips and use it as a new planting material.
		SERCHHII	
			3g + Chloropyriphos @ 1 g/lt of water to
	(1	protect against soil borne disease and
	1		insect.
	1		Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	The seedling should be transplant at 2 leaf
	7	HARMAN	stage.
	1	CS.	Distance should be (50X 70 cm)
	*		14 In case of dry spell use supplementary
			irrigation.
		9 0	FYM application @400gm/pit along with
	5		recommended fertilizer dose 100:50:50
		(V	kg/ha
		Damping off and	Seed treatment with thiram 3g/kg seed or
		LAWABlight	Trichoderma viride 4g+ metalaxyl 4g
		SAIHA	(Apron)/ kg seed
			Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water

2 | Page

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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)



			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.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAVVL	 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	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
		L 1 1	2 L D o g o

3 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM





4 | P a g e

		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 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. ✓ 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)
		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.
	1	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		✓ 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 bugatha	 Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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	1. Culling of positive pigs or piglets.
	5	Reproductive	
	7	Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	MAMIT	Swine rever.	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).
	À.	3 66	 Primary vaccination 6 month or above
		1 11	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

ANALOGE AL S

SAIHA

5 | P a g e

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM





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LAWNGTLAL

SAIHA

6 | Page

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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)



Dated: 31st October, 2014

District: Mamit Period: 01- 05, November, 2014

Bulletin No: -463/2014/ Bulletin/English

	10,565	E-C			
Parameters	01-11-2014	02-11-2014	03-11-2014	04-11-2014	05-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	29	29	30	30	29
Min Temp (oC)	12	12	13	12	12
Cloud Coverage	Mainly clean	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	98	99	99	99
Min RH (%)	55	53	52	52	51
Wind Speed (KmpH)	2	4	2	2	2
*Wind Direction	E	E	S-E	E	E

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

STATUS OF MONSOON- 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 (-32.04) (-64.68) (-16.55) (-32.04)

Weather sum	mary of the p <mark>ast</mark>	Weather forecast valid from 01 st November, 2014 To 05 th			
thre	ee days		November, 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 29-30°C and 12-13°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 51-55%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Light cloudy sky will prevail during the next five days. Weekly cumulative rainfall: 00.0 mm			
Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural / animal		
Animal		Pest/ Diseases	husbandry advisories		
/Fisheries		/ SAIHA	\		
Khasi	Vegetative stage	Can ker	 Prune the diseased and dead twigs. 		
Mandarin			• Wound dressing with Bordeaux paste and		

1 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



		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.
	3 \	• Excess water removes from the base of the
		Plant.
Banana	Vegetative/	Remove water sucker, keep 1 or 2 plants in a
Dunum	harvesting	single place.
	5	✓ Remove sword sucker and use it as new
	1	planting material.
		✓ Excess water removes from the base of the
		plant.
	7 MAMIT	✓ Fertilizer application in split dose of
	5	recommended dose.
		✓ Harvest fruits when the flower tips of the
		fruit dehiscent.
Pineapple	Vegetative stage	o Clean the vicinity of plants by weeding and
	\ _	loosen up the soil.
	- A 5	o Remove slips and use it as a new planting material.
		SERCHHIPO Sucker dipping treatment with Bavistin @
		3g + Chloropyriphos @ 1 g/lt of water to
		protect against soil borne disease and
		insect.
	1	• Weeding and intercultural operation.
Cucurbits	Vegetative stage	The seedling should be transplant at 2 leaf
	7	stage.
	7	Distance should be (50X 70 cm)
	*	In case of dry spell use supplementary
	1	irrigation.
		FYM application @400gm/pit along with
		recommended fertilizer dose 100:50:50
		kg/ha
		Damping off and 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

2 | Page

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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	 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.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	 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	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/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

3 | Page

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM





		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 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. ✓ 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)
		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, 2-3 sprayings should be given forthnightly intervals. Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage	175	✓ 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 bugatha	 Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the

4 | P a g e

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		A	population reaches ETL of 1 nymph or adult/ hill.
		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	1. Culling of positive pigs or piglets.
	5	Reproductive	
	1	Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	l,	1 64	 Primary vaccination 6 month or above
		1 1	 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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5 | P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM





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LAWNGTLAL

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6 | Page

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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)



Dated: 31st October, 2014

District: Serchhip Period: 01- 05, November, 2014

Bulletin No: -463/2014/ Bulletin/English

Parameters	01-11-2014	02-11-2014	03-11-2014	04-11-2014	05-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	29	29	30	29	29
Min Temp (oC)	12	12	12	11	9
Cloud Coverage	Mainly cloudy	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	48	44	41	40	36
Wind Speed (KmpH)	2	4	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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 (-32.04) (-64.68) (-16.55) (-32.04)

Weather sum	mary of the past	Weather forecast valid from 01 st November, 2014 To 05 th		
thre	e days		November, 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 29-30°C and 9-12°C. Maximum relative humidity is expected in the range of 100% and minimum may from 36-48%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clean sky will prevail during the next five days. Weekly cumulative rainfall: 00.0 mm		
Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal	
Animal		Pest/ Diseases	husbandry advisories	
/Fisheries		F SAIHA	1	
Khasi	Vegetative stage	Can ker	 Prune the diseased and dead twigs. 	
Mandarin		1	• Wound dressing with Bordeaux paste and	

1 | Page

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



			mulch with dry grass to conserve moisture and suppress the growth of weed.
		2	• For canker, spray streoptomycin 2g +
			copperoxycholoride 8 g /10 lt of water.
	1 1	2	• Excess water removes from the base of the
		KOLASIB	plant.
Banana	Vegetative/	ROLKOID	✓ Remove water sucker, keep 1 or 2 plants in a
	harvesting	W.	single place.
	(1 1	✓ Remove sword sucker and use it as new
	1	FEET L	planting material.
	1		✓ Excess water removes from the base of the
	1		plant.
	7 MAMIT)))))))))))))))))))	✓ Fertilizer application in split dose of
	5	AIZAVIL C	recommended dose.
		C meaning	✓ Harvest fruits when the flower tips of the
	1		fruit dehiscent.
Pineapple	Vegetative stage	3 8 6	o Clean the vicinity of plants by weeding and
		1 3 10	loosen up the soil.
	1		Remove slips and use it as a new planting
		ecneuuu	material.
		SERCHHIE	
			3g + Chloropyriphos @ 1 g/lt of water to
	7	35-4	protect against soil borne disease and insect.
	j.		• Weeding and intercultural operation.
Cucurbits	Vegetative stage	THE PERSON NAMED IN COLUMN 1	The seedling should be transplant at 2 leaf
Cucuibits	regetative stage	LUNGLEI	stage.
	-		Distance should be (50X 70 cm)
	4	n 8~	In case of dry spell use supplementary
			irrigation.
	3	(la a)	FYM application @400gm/pit along with
			recommended fertilizer dose 100:50:50
			kg/ha
		Damping off and	✓ Seed treatment with thiram 3g/kg seed or
		LAW Blight	Trichoderma viride 4g+ metalaxyl 4g
		F SAIHA	(Apron)/ kg seed
			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water

2 | Page

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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	 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.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAVVL	 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	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
		L 1 3	2 L D o g o

3 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

		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 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. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage IT	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)
		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.
	1	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		✓ 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 bugatha	 Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the

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			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	1. Culling of positive pigs or piglets.
	5	Reproductive	
		Respiratory	
	1	Syndrome (PRRS).	\\
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	7 MAMIT		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).
	1	3 86	 Primary vaccination 6 month or above
		1 3 70	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

PRINGERI

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5 | P a g e

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM





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LAWNGTLAL

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6 | P a g e

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM





Dated: 31st October, 2014

District: Aizawl Period: 01 -05, November, 2014

Bulletin No: -463/2014/ Bulletin/English

Parameters	01-11-2014	02-11-2014	03-11-2014	04-11-2014	05-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	29	29	30	30	29
Min Temp (oC)	11	N 11	11	11	10
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	100	99
Min RH (%)	51	49	48	47	45
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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 (-32.04) (-64.68) (-16.55) (-32.04)

	1			
Weather sum	mary of the p <mark>ast</mark>	Weather forecast valid from 01 st November, 2014 To 05 th		
thre	three days		November, 2014.	
		minimum temperatures 10-11 ^o C. Maximum rel 100% and minimum reasterly with the wind so during the next five day	ainfall during the next 5 day. The maximum and for the next 5 days may range for 29-30°C and ative humidity is expected in the range of 99-may from 48-51%. Wind direction would be peed of 2-3 km per hour. Clear sky will prevail s.	
Main Crop/ Animal	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories	
/Fisheries		F SAIHA	\	
Khasi	Vegetative stage	Can ker	 Prune the diseased and dead twigs. 	
Mandarin			• Wound dressing with Bordeaux paste and	

1 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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.
) \	2	• Excess water removes from the base of the
		KOLASIB	plant.
Banana	Vegetative/		✓ Remove water sucker, keep 1 or 2 plants in a
	harvesting	W.)	single place.
	5	2 1	✓ Remove sword sucker and use it as new
)	STATE OF	planting material.
		1	✓ Excess water removes from the base of the
			plant.
	7 MAMIT	1	✓ Fertilizer application in split dose of
	2	¿ AIZAWL IC	recommended dose.
			Harvest fruits when the flower tips of the
Dincomple	Vocatative stage		fruit dehiscent.
Pineapple	Vegetative stage		o Clean the vicinity of plants by weeding and loosen up the soil.
) &		Remove slips and use it as a new planting
))		material.
		SERCHHII	
			3g + Chloropyriphos @ 1 g/lt of water to
	1		protect against soil borne disease and
	1		insect.
			Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	The seedling should be transplant at 2 leaf
	5	STERVE ELECTRIC	stage.
	7	00	→ Distance should be (50X 70 cm)
		(A)	In case of dry spell use supplementary
	1		irrigation.
		100 6	FYM application @400gm/pit along with
		(C3 A	recommended fertilizer dose 100:50:50
		Damping off and	kg/ha
		LAWABlight	Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
		SAIHA	(Apron)/ kg seed
			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
		100	ing this of a copper on junior day it of water

2 | Page

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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	 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.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAVVL	 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.
	1	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.
		Mustard sawfly	✓ 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
		1 1	2 D o c o

3 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM





			✓ 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 the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage IT	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)
		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, 2-3 sprayings should be given forthnightly intervals. Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage	75	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

4 | Page

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM





		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	1. Culling of positive pigs or piglets.
	5	Reproductive	7
	1	Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth 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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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM





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



Dated: 31st October, 2014

District: Champhai Period: 01 - 05, November, 2014

Bulletin No: -463/2014/ Bulletin/English

Parameters	01-11-2014	02-11-2014	03-11-2014	04-11-2014	05-11-2014
Rainfall (mm)	0	0.00	0	0	0
Max Temp (oC)	28	29	29	29	28
Min Temp (oC)	10	<u>)</u> 11	11	11	10
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	51	48	46	44	44
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	S	S	S	S	S

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 (-32.04) (-64.68) (-16.55) (-32.04)

Weather sum	Weather summary of the past		Weather forecast valid from 01 st November, 2014 To 05 th		
three days			November, 2014.		
		minimum temperatures 10-11 ^o C. Maximum rel and minimum may fro with the wind speed of the next five days.	ainfall during the next 5 day. The maximum and for the next 5 days may range for 28-29°C and ative humidity is expected in the range of 100% m 44-51%. Wind direction would be southerly 2-3 km per hour. Clean sky will prevail during y cumulative rainfall: 00.0 mm		
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
Khasi Mandarin	Vegetative stage	Canker	Prune the diseased and dead twigs.Wound dressing with Bordeaux paste and		

1 | Page

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			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.
) \	2	• Excess water removes from the base of the
		KOLASIB	plant.
Banana	Vegetative/		✓ Remove water sucker, keep 1 or 2 plants in a
	harvesting	W/V	single place.
	5		✓ Remove sword sucker and use it as new
	1	Salar La	planting material.
			✓ Excess water removes from the base of the
	Summer		plant.
	7 MAMIT	4	✓ Fertilizer application in split dose of
	3	ANZAWIL CH	recommended dose.
			✓ Harvest fruits when the flower tips of the fruit dehiscent.
Dinconnlo	Vegetative stage	- (o Clean the vicinity of plants by weeding and
Pineapple	vegetative stage	121	loosen up the soil.
) &		o Remove slips and use it as a new planting
))		material.
		SERCHHIP	
		V~_	3g + Chloropyriphos @ 1 g/lt of water to
			protect against soil borne disease and
			insect.
			Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	The seedling should be transplant at 2 leaf
	3	- Individual and Indi	stage.
		50	Distance should be (50X 70 cm)
		A Y	In case of dry spell use supplementary
			irrigation.
			FYM application @400gm/pit along with recommended fertilizer dose 100:50:50
		1 63 4	kg/ha
		Damping off and	Seed treatment with thiram 3g/kg seed or
		LAWABlight	Trichoderma viride 4g+ metalaxyl 4g
		SAIHA	(Apron)/ kg seed
			✓ Drenching 1% Bordeaux mixture or 2 g
			captan or 3 copper oxychloride/ lt of water
		CONTRACTOR OF THE PARTY OF THE	

2 | Page

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			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.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAVVL	 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	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
		1 1	2 D o c o

 $3 \mid Page$

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			✓ 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 the soil is insufficient, the seed may be
	}	7	mixed with moist soil and kept overnight 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.
Tomato	Transely stage	AIZAWL	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)
		Damping off SERCHHI	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	3	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	E TO	✓ 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 bugatha	 Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml Insecticide application should be done if the

4 | P a g e

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			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	1. Culling of positive pigs or piglets.
	§	Reproductive	
		Respiratory	
		Syndrome (PRRS).	\ \ \
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and repeat every 6
Cattle	Am age group	Disease (FMD)	month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	1		 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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6 | Page

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