

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 09 - 13 May, 2015

Bulletin No: -516/2015/ Bulletin/English

Date of issue: 08th May, 2015

Parameters	09.05.2015	10.05.2015	11.05.2015	12.05.2015	13.05.2015
Rainfall (mm)	5	KOI6ASIR	9	5	5
Max Temp (oC)	27	34	33	34	34
Min Temp (oC)	19	20	21	21	21
Cloud Coverage	Partially clear	Clear sky	Mainly clear	Clear sky	Clear sky
Max RH (%)	96	95	96	94	93
Min RH (%)	72	39	47	45	56
Wind Speed (KmpH)	4) 4	3	4	2
*Wind Direction	S-E	S-E	S-E	S-E	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 PREMONSOON- April 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 185.66mm

Champhai- 119.48mm

Saiha- 109.52 mm

Kolasib- 213.61mm

(112.8mm)

(68.9mm)

(40.2mm)

(158.9mm) Serchhip-110.96mm

Lawngtlai-101.62mm

Lunglei-117.82mm

Mamit-236.61mm

11p-110.50mm

(18.5mm)

(33.8mm)

 \sim (75.6mm)

(25.9mm)

Weather summary of the past three days Weather forecast valid from 09th May, 2015 To 13th May, 2015.

The temperature range for maximum and minimum were 31.0-33.5°C and 18.2-24.2°C respectively. Dense cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 85-92% & minimum of 49-56%. Rainfall recorded for the past three days is **71.60mm**.

There are chances of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-34°C and 19-21°C. Maximum relative humidity is expected in the range of 93-96% and minimum may from 39-72%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 30.0 mm

Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal		Pest/ Diseases	husbandry advisories
/Fisheries			
Khasi	Nursery stage	7	By seeds: Seed should be sown in the
Mandarin and			nursery immediately after extraction in to a
acid lime		LAWNGTLAL	depth 1.5 to 2 cm extraction at 10x5 cm
		/ SAIHA	distance. Seedlings are planted in
			secondary bed or polythene bags at 4-6 leaf
			stages.

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			Gummosis, Root rot and Collar rot should be controlled. Recommended fungicide (Carbendazium)
	(a E	Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating caterpillar, Fruit sucking Moth, Mites, Twing Blight,
		LUNGLEI	each crop, should be controlled with the recommended doses of GA3, urea, benomyl and carbendazim at right time.
		1 2	system. Fruit drops, which occur at least twice in
		SERCHHI	Drip irrigation system should be preferred to provide proper water at the feeder root
acid lime	} (colour development, maintain firmness, extend harvesting period.
Khasi Mandarin and	Vegetative stage		♣ Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay
Vhodi	Vogetetive ete se		followed.
	\ \	AIZAWL	discarded. Plant protection measures should be
	} MAMIT		selected for planting. Hooked or bench rooted plants should be
	(3	♣ Seedling of uniform height should be
	{		Stagnation of water in beds should be avoided.
	{	L 5	200:100 (g/pt). 4 Only certified seed should be used.
		KOLASIB	♣ Application of split dose of fertilizer 600:
	7 /	1	♣ Potting mixture of soil, sand and FYM or compost should be in proper ratio.
			the incidence of insects and diseases.
			♣ Nursery should be located at least 500 meters away from the orchards to minimize

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		♣ Application of split dose of fertilizer 600:
		200:100 (g/pt).
		♣ Apply micro-nutrients viz. zinc, copper,
	1	manganese, iron, boron and molybdenum
	1 _	are required in ample quantities for
		supplying nutrients and also reduce serious
		disorders which may lead to decline of the
)	whole orchard.
	ζ	♣ Fruits are harvested when they attain full
	f	size, develop attractive colour with
		optimum sugar and acid blend.
Banana	Vegetative/	Cleaning near base of the plant and cut
	harvesting	unwanted branches.
	ς	Application of split dose of fertilizer 600:
)	200:100 (g/pt).
	ì	♣ Apply micro-nutrients viz. zinc, copper,
),	manganese, iron, boron and molybdenum
	1	are required in ample quantities for
	{ (~	supplying nutrients and also reduce serious
	· / /	disorders which may lead to decline of the
		SERCHHIP whole orchard.
		Pruning on a regular basis removes
		unwanted or a sucker, keep production
		mats in optimum condition, saves fertilizer,
		reduces pest and disease.
		LUNGLE Fruits are harvested when they attain full
Passion Fruit	N	size, develop attractive yellow colour.
Passion Fruit	Nursery stage	Raising planting materials through seeds,
	7	ripe fruits from vines yielding quality fruits should be collected and extract the seeds
		should be confected and extract the seeds should be sown after 15-20 days in raised
		nursery beds.
		When two to three leaves delop, seedling
		should be transplanted in polythene bags.
		The seedlings are planted in field when
		they become 3-4 months old.
		Apply well decompose FYM @
		15kg/pit/year along with 100.50.100 g
		NPK per pit.
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Pineapple	Flowering stage		4 Apply flowering inducing chemical (Ethrel
			10 PPM+2% urea+0.04% Sodium
	·		Carbonate) should be applied in the heart
	()	7	of the plant. In evening and only when
) \ .		plants have at least 32 leaves.
		KOLASIB	♣ The flowering emergence will come out
		KOLASIB	after 55-60 days after chemical spraying.
)	W /	♣ Apply split doses of fertilizer @ 60: 50:60
	(13 A /	g per plant.
	{		Remove all unwanted leaves, branches and
	1		weed near to the plant.
Colocasia	Sowing stage		Planting is done well prepared land or pits
	/ MAMIT		filled up with FYM (12-15) t/ha
	ζ	AIZAWL O	Sprouted corms or cormels are planted 5-7
	\ \ \	CAIZAVVL C	deep at a spacing of 40-50 cm between
	Ι '	5	and within rows in the pits.
	Ι	~ ~ ?	Inorganic fertilizer like Urea, SSP and
	1		MOP @ 220: 375: 134 kg.
	} [Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in
))		root zone when egg laying ooze is
	San	SERCHHII	observed at plant base.
Cucurbitaceous	Fruiting st <mark>age</mark>	V~ L_	Provide irrigation every 7 days interval
crop			which will give better yield.
		1	In large gardens apply carbaryl 0.2 per
			cent or malathion 0.15 per cent suspension
		LUNGLEI	containing sugar or jeggery at 10 g/l at
	}		fortnightly intervals at flowering and fruit
	l l		initiation against fruit fly and pumpkin
	`	0	beetle.
			Provide split doses of urea (70g/pt) at the
	G • 4	4 ***	time of full blooming.
Okra	Sowing stage	1. Weeding and light	Mulching (if dry spell is there)
		irrigation in	Give irrigation at regular interval
		nursery bed.	Provide banana shading to transplanted
		2. Provide irrigation	seedling.
		in transplanted IHA)
		okra field.	Consequently of the selection of the sel
		1. Aphid (Aphis	Spray surf water solution to the plat

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	gossypii) 2. Flea beetle	 Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water. Shake plants to dislodge grubs, pupae and
	(Phylliodes balyi)	 Snake plants to dislodge grubs, pupae and adults and destroy. Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt or
ζ		Dimethoate 30 % EC 7ml/10lt of water.
} MAMIT	3. Epilachna beetle. (Epilachna viginctioctopancta ta)	 Collect damaged leaves with grubs and egg masses and destroy them. Spray with methyl parathion 0.5% or dimethoate 0.3% is effective.
1	4. Leafhopper (Empoasca devastans)	• A Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
	Bacterial Wilt (Pseudomonas solanacearum) SERCHHI	 Fields should be kept clean and effected plants are to be uprooted and burnt. Spray Copper fungicides to control the disease (2% Bordeaux mixture.) The disease is more prevalent in the presence of root knot Nematodes, so control of these nematodes will suppress the disease spread. Soil drenching (Streptocycline sulphate 0.3 gm/lt of water) and Blitox 50 @ 5gm/ 15lt
L	~ 8~	water.
	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 blotch	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given forthnightly intervals.

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			o Spraying of Blitox @ 3 g/l of water was
			found effective against leaf spot.
French bean	Flowering stage		o Remove all unwanted leaves, branches
	1	3	and weed near to the plant.
		[o Earthing up the soil for better aeration.
		KOLASIB	 Plant should be supported by bamboo or
			woods 20-25 days after sowing.
)	Blister beetle	 Manual collection of insect and destroy it
	5		immediately.
	1		o Apply cypermethrin 2 gm/lt of water.
Brinjal	Sowing stage		o Equal quantity of sand and well
	{		decomposed FYM are mixed with soil and
	/ MAMIT	1	raised beds of 75-100 cm width and
	\ \{	AIZAWL C	convenient length are prepared and these
	ì		beds are treated with a solution of 100g of
	l l	3	blue copper dissolved in 40 litres of water
	l l		or formaldehyde.
	\		o The seeds can be sown in lines drawn at a
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		spacing of 5 cm across the beds and cover with top soil.
Tomato	Sowing stage	SERCHHI	Soils of nursery area brought into fine tilth
1 omato	Sowing stage	SEKUNNIII	and raised beds (0.8 m wide and 15 cm
			height of convenient length).
			o Apply 10 kg well decompose FYM along
		_	with 15:15:15 complex fertilizer along
			with 2.5 g carbofuran/2m ² .
)	LUNGLEI	The seeds can be sown in lines drawn at a
		_	spacing of 5 cm across the beds and cover
		· [~	with top soil.
		1. Aphid(Aphis	• Spray surf water solution to the plat.
		gossypii)	Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt of water
		1	(Sucking pest) or Dimethoate 30 % EC
			7ml/10lt of water.
		2. Epilachna beetle.	• Spray with methyl parathion 0.5% or
		(Epilach na SAIHA	
		<mark>viginctio</mark> ctopancta	beetle.
		ta)	0

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Rice	Nursery stage	Pre Kharif Rice	✓ Use only Well filled and healthy seeds.
			✓ Put the seed in 2.5% salt solution i.e 250 g
			of common salt in 10 lts of water.
	5.7	7	✓ Seed treated with Bavistin 50 WP @ 0.1%
) \ ,		(2 g/lt) solution.
		Raised bed method	■ The size of each bed should be 10 m in
	{	1	length in length and 1.25 m in width with
)	W)	20-30 cm wide channel for irrigation,
	ζ		drainage and easy movement, it takes care
	f		of the seedlings without trampling them.
			Treated seed should be evenly broadcasted
			in each bed after applying manure.
Maize	Sowing stage T		Two to three plough are necessary to get
	{ ·	AIZAWL C	the soil well pulverized and weed free.
	ì		Seed is being placed in furrows.
	1		Seed should be treated with Thiram @4
	1		g/kg seed.
	\ .	1	Use optimum seed rate (20-25 kg/ha) for
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		desire plant population. Apply well decomposed FYM @ 5-10 t/ha
		SERCHHI	along with $80:60:40 \text{ kg N}$, P_2O_5 and
	1	SERCOIIII	K_2O/ha incorporate with soil before
			sowing. Half nitrogen dose will use at the
)		time of sowing and remaining 25% after
		`	one month and 25% at flowering stage.
Ginger and	Land preparation	LUNGLEI	Remove all unwanted leaves, branches
turmeric	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LUNGLEI	and weed near to the plant.
	1	-	Earthing up the soil for better aeration.
	<u> </u>	a 3~	Apply split dose of nitrogen fertilizer.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt)
			for controlling thrips.
		Scales	For the state of t
		21	ml/lt) for controlling scales.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	l l
		RespiratoryAlHA)
	A Jule -4	Syndrome (PRRS).	2 Vaccination of pipe with SE was in 12
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2

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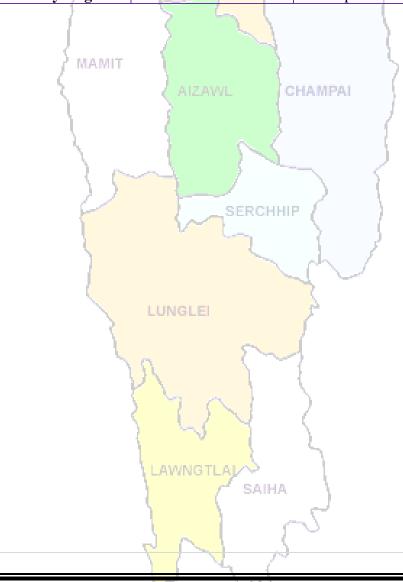
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		months and yearly interval/6 month inte		
Cattle	All age group	Foo <mark>t and</mark> Mouth	• FMD vaccine at 16 week and repeat every 6	
		Disease (FMD)	month.	
	Young stage	Bl <mark>ack Quarter (BQ</mark>)	Black Quarter Vaccine (BQV).	
		(Primary vaccination 6 month or above 	
		KOLASIB	Revaccination annually	
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B	
)	(A)	vaccine for adult birds.	
	Early stage	Coccidiosis	1. Amprolium or coccidiostat	



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Date of issue: 08th May, 2015

District: Lawngtlai Period: 09 - 13 May, 2015

Bulletin No: -516/2015/ Bulletin/English

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Min Temp (oC)	20	19	19	20	20
Cloud Coverage	Clear sky				
Max RH (%)	83	95	95	96	96
Min RH (%)	35	32	35	37	39
Wind Speed (KmpH)	4	4	4	2	4

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 PREMONSOON- April 1-30, 2015 (Percent of deviation from normal in parenthesis)

(33.8mm)

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*Wind Direction

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Weather summary of the past three days

Weather forecast valid from 09th May, 2015 To 13th May, 2015.

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 35-36°C and 19-20°C. Maximum relative humidity is expected in the range of 83-96% and minimum may from 32-39%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 04.0 mm

Main Crop/ Animal	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
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Mandarin and		1	nursery immediately after extraction in to a		
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		LUNGLEI	recommended doses of GA3, urea, benomyl and carbendazim at right time.
	}		Fruit drops, which occur at least twice in each crop, should be controlled with the
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] _	KOLASIB	supplying nutrients and also reduce serious
	(/ . C	disorders which may lead to decline of the
)	(A)	whole orchard.
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		ROLAGIB	after 55-60 days after chemical spraying.
	}	W)	♣ Apply split doses of fertilizer @ 60: 50:60
	(13 4 /	g per plant.
	7	(♣ Remove all unwanted leaves, branches and
	/	3	weed near to the plant.
Colocasia	Sowing stage		♣ Planting is done well prepared land or pits
002000000) MAMIT	A.	filled up with FYM (12-15) t/ha
	l	}	Sprouted corms or cormels are planted 5-7
	ξ	AIZAWL C	deep at a spacing of 40-50 cm between
	\	1 1	and within rows in the pits.
	\	\$	Inorganic fertilizer like Urea, SSP and
	\ \		MOP @ 220: 375: 134 kg.
) /~	Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in
))		root zone when egg laying ooze is
		SERCHHI	observed at plant base.
Cucurbitaceous	Fruiting stage	1/-1	♣ Provide irrigation every 7 days interval
crop			which will give better yield.
СТОР)		♣ In large gardens apply carbaryl 0.2 per
	J	`-	cent or malathion 0.15 per cent suspension
			containing sugar or jeggery at 10 g/l at
		LUNGLEI	fortnightly intervals at flowering and fruit
		_	initiation against fruit fly and pumpkin
	L.	5 Ev	beetle.
	"\		Provide split doses of urea (70g/pt) at the
			time of full blooming.
Okra	Sowing stage	1. Weeding and light	Mulching (if dry spell is there)
		irrigation in	Give irrigation at regular interval
		nursery bed.	♣ Provide banana shading to transplanted
		2. Provide irrigation	seedling.
		in transplanted IHA	
		okra field.	L
		1. Aphid (Aphis	Spray surf water solution to the plat
	<u> </u>		

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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)



	gos <mark>sypii</mark>)	• Spray any one of the insecticides
		Imidacloprid 200 SL @ 0.25ml/lt of water
		(Sucking pest) or Dimethoate 30 % EC
1	2 1 1	7ml/10lt of water.
	2. Flea beetle (Phylliodes balyi)	Shake plants to dislodge grubs, pupae and adults and destroy.
	(1 hylliodes balyt)	adults and destroy. Spray any one of the insecticides
)	1	Imidacloprid 200 SL @ 0.25ml/lt or
(3 1	Dimethoate 30 % EC 7ml/10lt of water.
<u> </u>	3. Epilachna beetle.	Collect damaged leaves with grubs and egg
	(Épilachna	masses and destroy them.
	viginctioctopancta	• Spray with methyl parathion 0.5% or
/ MAMIT	ta)	dimethoate 0.3% is effective.
1	4. Leafhopper	• Spray any one of the insecticides
\	(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of water
\	devastans)	(Sucking pest) or Dimethoate 30 % EC
1	✓ Bacterial Wilt	7ml/10lt of water.
\ <u>\</u>	(Pseudomonas	• Fields should be kept clean and effected plants are to be uprooted and burnt.
	solanacearum)	 Spray Copper fungicides to control the
	SERCHHI	disease (2% Bordeaux mixture.)
,	V (~	• The disease is more prevalent in the
)	4	presence of root knot Nematodes, so control
	_	of these nematodes will suppress the disease
		spread.
	LUNGLEI	• Soil drenching (Streptocycline sulphate 0.3
\ \ \		gm/lt of water) and Blitox 50 @ 5gm/ 15lt
<u></u>	Domning off	water.
	Damping off	Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	5 7 ~ 1	(Apron)/ kg seed
	1 6 4	Drenching 1% Bordeaux mixture or 2 g
	V .	captan or 3 copper oxychloride/ lt of water
	LAWNGTLAL	at 10-15 DAS are effective.
	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	blot ch	water or Bavistin @ 1g/litre of water, 2-3
	ſ	sprayings should be given forthnightly intervals.
		miervais.

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			o Spraying of Blitox @ 3 g/l of water was
			found effective against leaf spot.
French bean	Flowering stage		o Remove all unwanted leaves, branches
	1 1	3	and weed near to the plant.
		[Earthing up the soil for better aeration.
]	KOLASIB	 Plant should be supported by bamboo or
			woods 20-25 days after sowing.
)	Blister beetle	 Manual collection of insect and destroy it
	5	immediately.	
			o Apply cypermethrin 2 gm/lt of water.
Brinjal	Sowing stage		o Equal quantity of sand and well
	{		decomposed FYM are mixed with soil and
	/ MAMIT	1	raised beds of 75-100 cm width and
	\ \{	AIZAWL C	convenient length are prepared and these
	ì		beds are treated with a solution of 100g of
	l l	3	blue copper dissolved in 40 litres of water
	l l		or formaldehyde.
	\		o The seeds can be sown in lines drawn at a
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		spacing of 5 cm across the beds and cover with top soil.
Tomato	Sowing stage	SERCHHI	Soils of nursery area brought into fine tilth
Tomato	Sowing stage	SEKUNNIII	and raised beds (0.8 m wide and 15 cm
			height of convenient length).
			Apply 10 kg well decompose FYM along
		_	with 15:15:15 complex fertilizer along
			with 2.5 g carbofuran/2m ² .
)	LUNGLEI	The seeds can be sown in lines drawn at a
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	spacing of 5 cm across the beds and cover
		· [~	with top soil.
		1. Aphid(Aphis	Spray surf water solution to the plat.
		gossypii)	Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt of water
		1	(Sucking pest) or Dimethoate 30 % EC
			7ml/10lt of water.
		2. Epilachna beetle.	• Spray with methyl parathion 0.5% or
		(Epilach na SAIHA	
		<mark>viginctio</mark> ctopancta	beetle.
		ta)	0

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Rice	Nursery stage	Pre Kharif Rice	✓ Use only Well filled and healthy seeds.
			✓ Put the seed in 2.5% salt solution i.e 250 g
			of common salt in 10 lts of water.
	1 1	7	✓ Seed treated with Bavistin 50 WP @ 0.1%
	1 \		(2 g/lt) solution.
		Raised bed method	• The size of each bed should be 10 m in
			length in length and 1.25 m in width with
)	(A)	20-30 cm wide channel for irrigation,
	5		drainage and easy movement, it takes care
	}	5	of the seedlings without trampling them.
			 Treated seed should be evenly broadcasted
			in each bed after applying manure.
Maize	Sowing stage T		Two to three plough are necessary to get
	\ \{	AIZAWL C	the soil well pulverized and weed free.
)		Seed is being placed in furrows.
	1	3	Seed should be treated with Thiram @4
	1		g/kg seed. Use optimum seed rate (20-25 kg/ha) for
)		desire plant population.
	\ \		Apply well decomposed FYM @ 5-10 t/ha
		SERCHHI	along with $80:60:40$ kg N, P_2O_5 and
		V~	K ₂ O/ha incorporate with soil before
	1		sowing. Half nitrogen dose will use at the
			time of sowing and remaining 25% after
		-	one month and 25% at flowering stage.
Ginger and	Land preparation	LUNGLEI	Remove all unwanted leaves, branches
turmeric		LUITULLI	and weed near to the plant.
	1	C .	Earthing up the soil for better aeration.
	-	0 (~	Apply split dose of nitrogen fertilizer.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt)
			for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5
D'	A 11 -4 · · · · ·	Devi	ml/lt) for controlling scales.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	\
		Respiratory AIHA Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	Audit stage	Swine level.	22 vaccination of pigs with 51 vaccines at 2

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			months and yearly interval/6 month interval		
Cattle	All age group	Foot and Mouth • FMD vaccine at 16 week and repeat every			
		Disease (FMD)	month.		
	Young stage	Bl <mark>ack Quarter (BQ</mark>)	Black Quarter Vaccine (BQV).		
		5	 Primary vaccination 6 month or above 		
		KOLASIB	Revaccination annually		
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B		
)	(A)	vaccine for adult birds.		
	Early stage	Coccidiosis	1. Amprolium or coccidiostat		



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



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Parameters Rainfall (mm)

RAMIN KRISHI MAUSAM SEWA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei Period: 09 - 13 May, 2015

10.05.2015

0

Bulletin No: -516/2015/ Bulletin/English

09.05.2015

12.05.2015	13.05.2015
0	0
35	35
19	19
Clear sky	Clear sky
	0 35 19

Date of issue: 08th May, 2015

· ·	The state of the s		The state of the s		
Max Temp (oC)	34	34	34	35	35
Min Temp (oC)	18	19	19	19	19
Cloud Coverage	Clear sky	Clear sky	🃝 Clear sky	Clear sky	Clear sky
Max RH (%)	95	97	98	98	98
Min RH (%)	36	33	38	37	37
Wind Speed (KmpH)	4	4	3	2	4
*Wind Direction	E	E	E	S-E	S-E

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

STATUS OF PREMONSOON- April 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 185.66mm Champhai- 119.48mm

(68.9mm)(112.8mm)

Saiha- 109.52 mm (40.2mm) Kolasib-213.61mm (158.9mm)

Lawngtlai-101.62mm

Lunglei-117.82mm

Mamit-236.61mm

Serchhip-110.96mm

(18.5mm)

(33.8mm)

(75.6mm)

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 09th May, 2015 To 13th May, 2015.

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 34-35°C and 18-19^oC. Maximum relative humidity is expected in the range of 95-98% and minimum may from 33-38%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 08.0 mm

Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal		Pest/ Diseases	husbandry advisories
/Fisheries			
Khasi	Nursery stage	7	By seeds: Seed should be sown in the
Mandarin and		1	nursery immediately after extraction in to a
acid lime		LAWNGTLAL	depth 1.5 to 2 cm extraction at 10x5 cm
		/ SAIHA	distance. Seedlings are planted in
			secondary bed or polythene bags at 4-6 leaf
			stages.

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	MAMIT	Nursery should be located at least 500 meters away from the orchards to min the incidence of insects and diseases. Potting mixture of soil, sand and FY compost should be in proper ratio. Application of split dose of fertilizer 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should avoided. Seedling of uniform height should selected for planting. Hooked or bench rooted plants should discarded. Plant protection measures should followed.	M or 600: d be d be ld be
Khasi Mandarin and	Vegetative stage	Spray (10 ppm) of Gibberellic acid she be done at colour break stage to delay	
acid lime	\$ 5	colour development, maintain firmne extend harvesting period.	ess,
	<i></i>	SERCHHIP + Drip irrigation system should be prefe	rred
	}	to provide proper water at the feeder re	oot
	5	system. Fruit drops, which occur at least twice	in
	J	each crop, should be controlled with the	
		recommended doses of GA3, urea,	
	}	benomyl and carbendazim at right time	
	l l	Insect pests like Blackfly (Kolshi), Cit Psylla, Leaf miner, Bark eating caterp	
)	Fruit sucking Moth, Mites, Twing Blig	
		Gummosis, Root rot and Collar rot sho	ould
		be controlled.)
		Recommended fungicide (Carbendazii and proper doses (0.1% or 1000 ppm)	1111)
		should be sprayed at proper time (One	
		Month and 15 days before harvest i.e.	
0.00		sprays).	•
Oil plam	Vegetative/	Cleaning near base of the plant an	d cut
	Harvesting stage	unwanted branches.	~ .
		2 P a	g e

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			♣ Application of split dose of fertilizer 600:
			200:100 (g/pt).
		<i></i>	♣ Apply micro-nutrients viz. zinc, copper,
	1 1	3	manganese, iron, boron and molybdenum
		5	are required in ample quantities for
		KOLASIB	supplying nutrients and also reduce serious
	ξ	1	disorders which may lead to decline of the
)	W)	whole orchard.
	ζ	2 1	Fruits are harvested when they attain full
	S		size, develop attractive colour with
			optimum sugar and acid blend.
Banana	Vegetative/		♣ Cleaning near base of the plant and cut
	harvesting	()	unwanted branches.
	ζ	AIZAWL	4 Application of split dose of fertilizer 600:
)	ALEATTE C	200:100 (g/pt).
)		♣ Apply micro-nutrients viz. zinc, copper,
),	1 ~ /	manganese, iron, boron and molybdenum
	\		are required in ample quantities for
	\ <u></u>	~ / / -	supplying nutrients and also reduce serious
))		disorders which may lead to decline of the
	Ş	SERCHHI	
		V~ L_	Pruning on a regular basis removes
			unwanted or a sucker, keep production
			mats in optimum condition, saves fertilizer,
			reduces pest and disease.
		LUNGLEI	Fruits are harvested when they attain full
	<u> </u>	Sec. Sec. 1 St. Sec. Sec. Sec. 1	size, develop attractive yellow colour.
Passion Fruit	Nursery stage	G	Raising planting materials through seeds,
	*	0	ripe fruits from vines yielding quality fruits
			should be collected and extract the seeds
			should be sown after 15-20 days in raised
			nursery beds.
		1 2	When two to three leaves delop, seedling
		1	should be transplanted in polythene bags.
		LAWNGTLAL	The seedlings are planted in field when
		/ SAIHA	they become 3-4 months old.
			Apply well decompose FYM @
		1	15kg/pit/year along with 100.50.100 g
		4 7	NPK per pit.
		V V. /	3 P a g e

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Pineapple	Flowering stage		4 Apply flowering inducing chemical (Ethrel
			10 PPM+2% urea+0.04% Sodium
	·		Carbonate) should be applied in the heart
	()	7	of the plant. In evening and only when
) \ .		plants have at least 32 leaves.
		KOLASIB	♣ The flowering emergence will come out
		KOLASIB	after 55-60 days after chemical spraying.
)	W /	♣ Apply split doses of fertilizer @ 60: 50:60
	(13 A /	g per plant.
	{		♣ Remove all unwanted leaves, branches and
	1		weed near to the plant.
Colocasia	Sowing stage		Planting is done well prepared land or pits
	/ MAMIT		filled up with FYM (12-15) t/ha
	ζ	AIZAWL O	Sprouted corms or cormels are planted 5-7
	\ \ \	AIZAVIL	deep at a spacing of 40-50 cm between
	Ι '	5	and within rows in the pits.
	Ι		Inorganic fertilizer like Urea, SSP and
	\		MOP @ 220: 375: 134 kg.
	1	Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in
))		root zone when egg laying ooze is
	Ş	SERCHHI	observed at plant base.
Cucurbitaceous	Fruiting s <mark>tage</mark>	V~ L_,	Provide irrigation every 7 days interval
crop			which will give better yield.
		1	In large gardens apply carbaryl 0.2 per
			cent or malathion 0.15 per cent suspension
		LUNGLEI	containing sugar or jeggery at 10 g/l at
	5		fortnightly intervals at flowering and fruit
	l l	S	initiation against fruit fly and pumpkin
	**	0 (~	beetle.
			Provide split doses of urea (70g/pt) at the
01	G	1 11/14	time of full blooming.
Okra	Sowing stage	1. Weeding and light	Mulching (if dry spell is there)
		irrigation in	Give irrigation at regular interval Provide banana shading to transplanted
		nursery bed. 2. Provide irrigation	
		in transplanted HA	seedling.
		okra field.	_)
		1. Aphid (Aphis	Spray surf water solution to the plat
		Apmu (Apmis	Spray surf water solution to the plat

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	goss <mark>ypii</mark>)	• Spray any one of the insecticides
	gossypu)	• Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water
		(Sucking pest) or Dimethoate 30 % EC
1	1	7ml/10lt of water.
	2. Flea beetle	Shake plants to dislodge grubs, pupae and
	(Phylliodes balyi)	adults and destroy.
{	()	• Spray any one of the insecticides
/	W)	Imidacloprid 200 SL @ 0.25ml/lt or
>		Dimethoate 30 % EC 7ml/10lt of water.
)	3. Epilachna beetle.	• Collect damaged leaves with grubs and egg
	(Epilachna	masses and destroy them.
{	viginctioctopancta	• Spray with methyl parathion 0.5% or
/ MAMIT	ta)	dimethoate 0.3% is effective.
{	4. Leafhopper	Spray any one of the insecticides
)	(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of water
ì	devastans)	(Sucking pest) or Dimethoate 30 % EC
Į.	1 1 1 1 1 1	7ml/10lt of water.
\	✓ Bacterial Wilt	• Fields should be kept clean and effected
\ (<u>`</u>	(Pseudomonas	plants are to be uprooted and burnt.
1 1 1	solanacearum)	• Spray Copper fungicides to control the
	SERCHHI	disease (2% Bordeaux mixture.)
	V (-)	• The disease is more prevalent in the
		presence of root knot Nematodes, so control
	1	of these nematodes will suppress the disease
		spread.
	LUNGLEI	• Soil drenching (Streptocycline sulphate 0.3
}		gm/lt of water) and Blitox 50 @ 5gm/ 15lt
1	~	
	Domning off	water. ✓ Seed treatment with thiram 3g/kg seed or
	Damping off	Trichoderma viride 4g+ metalaxyl 4g
	90	(Apron)/ kg seed
	1	Drenching 1% Bordeaux mixture or 2 g
		captan or 3 copper oxychloride/ lt of water
	LAWNGTLAL	at 10-15 DAS are effective.
	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	blot ch	water or Bavistin @ 1g/litre of water, 2-3
	(sprayings should be given forthnightly
		intervals.
	100	

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			o Spraying of Blitox @ 3 g/l of water was
			found effective against leaf spot.
French bean	Flowering stage		o Remove all unwanted leaves, branches
	1 1	3	and weed near to the plant.
)	 Earthing up the soil for better aeration.
		KOLASIB	 Plant should be supported by bamboo or
			woods 20-25 days after sowing.
)	Blister beetle	 Manual collection of insect and destroy it
	5		immediately.
			o Apply cypermethrin 2 gm/lt of water.
Brinjal	Sowing stage		o Equal quantity of sand and well
	₹		decomposed FYM are mixed with soil and
	/ MAMIT	1	raised beds of 75-100 cm width and
	\ \	AIZAWL C	convenient length are prepared and these
)		beds are treated with a solution of 100g of
	l l	3	blue copper dissolved in 40 litres of water
	\ \		or formaldehyde. The seeds can be sown in lines drawn at a
)		spacing of 5 cm across the beds and cover
	\ \		with top soil.
Tomato	Sowing stage	SERCHHI	
1 omato	Sowing stage	V~7	and raised beds (0.8 m wide and 15 cm
	(height of convenient length).
			o Apply 10 kg well decompose FYM along
		***	with 15:15:15 complex fertilizer along
		LUNGLEI	with 2.5 g carbofuran/2m ² .
	\ \ \	LUNULLI	The seeds can be sown in lines drawn at a
	1	6	spacing of 5 cm across the beds and cover
	<u>\</u>	v / ~	with top soil.
		1. Aphid(Aphis	Spray surf water solution to the plat.
		gossypii)	Spray any one of the insecticides
			[Imidacloprid 200 SL @ 0.25ml/lt of water
		1	(Sucking pest) or Dimethoate 30 % EC
		AL SARBIDATION AND A	7ml/10lt of water.
		2. Epilachna beetle.	• Spray with methyl parathion 0.5% or
		(Epilachna SAIHA	dimethoate 0.3% is effective against flea
		viginctio ctopancta	beetle.
		ta)	9

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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)



Rice	Nursery stage	Pre Kharif Rice	✓ Use only Well filled and healthy seeds.
			✓ Put the seed in 2.5% salt solution i.e 250 g
			of common salt in 10 lts of water.
	1 1	7	✓ Seed treated with Bavistin 50 WP @ 0.1%
	1 \		(2 g/lt) solution.
		Raised bed method	• The size of each bed should be 10 m in
		1	length in length and 1.25 m in width with
)	W)	20-30 cm wide channel for irrigation,
	5		drainage and easy movement, it takes care
	}	5 4	of the seedlings without trampling them.
			Treated seed should be evenly broadcasted
			in each bed after applying manure.
Maize	Sowing stage T		Two to three plough are necessary to get
	\ \{	AIZAWL C	the soil well pulverized and weed free.
)		Seed is being placed in furrows.
	1	3	Seed should be treated with Thiram @4
	1		g/kg seed. Use optimum seed rate (20-25 kg/ha) for
)		desire plant population.
	\ \ \		Apply well decomposed FYM @ 5-10 t/ha
		SERCHHI	along with $80:60:40$ kg N, P_2O_5 and
			K ₂ O/ha incorporate with soil before
	1		sowing. Half nitrogen dose will use at the
			time of sowing and remaining 25% after
		-	one month and 25% at flowering stage.
Ginger and	Land preparation	LUNGLEI	Remove all unwanted leaves, branches
turmeric		LUITULLI	and weed near to the plant.
	1	C .	Earthing up the soil for better aeration.
	-	0 (~	Apply split dose of nitrogen fertilizer.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt)
		7 (1)	for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5
D'	A 11 -4 · · · · ·	Devision	ml/lt) for controlling scales.
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
	Audit stage	Swine level.	22 vaccination of pigs with 51 vaccines at 2

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			months and yearly interval/6 month interval
Cattle	All age group	Foo <mark>t and</mark> Mouth	• FMD vaccine at 16 week and repeat every 6
		Disease (FMD)	month.
	Young stage	Bl <mark>ack Quarter (BQ</mark>)	Black Quarter Vaccine (BQV).
		(Primary vaccination 6 month or above
		KOLASIB	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
)	W)	vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Date of issue: 08th May, 2015

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S-E

District: Mamit Period: 09 - 13 May, 2015

Bulletin No: -516/2015/ Bulletin/English

Parameters	09.05.2015	10.05.2015	11.05.2015	12.05.2015	13.05.2015
Rainfall (mm)	10	KO10SIR	8	0	0
Max Temp (oC)	29	34	34	36	35
Min Temp (oC)	20	21	21	22	22
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	97	94	96	95	94
Min RH (%)	55	39	50	43	49

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 PREMONSOON- April 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 185.66mm Champhai- 119.48mm Saiha- 109.52 mm Kolas

S-E

(112.8mm) (68.9mm)

4

S-E

(40.2mm)

S-E

Kolasib- 213.61mm (158.9mm)

4

S

Lawngtlai-101.62mm

Wind Speed (KmpH)

*Wind Direction

Lunglei-117.82mm

Mamit-236.61mm

Serchhip-110.96mm

(18.5mm) er summary of the past (33.8mm)

(75.6mm)

(25.9mm)

Weather summary of the past three days Weather forecast valid from 09th May, 2015 To 13th May, 2015.

There are chances of light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 29-36°C and 20-22°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 39-55%. Wind direction would be southeasterly with the wind speed of 4-5 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 28.0 mm

Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal		Pest/ Diseases	husbandry advisories
/Fisheries			
Khasi	Nursery stage	(7	♣ By seeds: Seed should be sown in the
Mandarin and		1	nursery immediately after extraction in to a
acid lime		LAWNGTLAL	depth 1.5 to 2 cm extraction at 10x5 cm
		SAIHA	distance. Seedlings are planted in
			secondary bed or polythene bags at 4-6 leaf
			stages.

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Nursery should be located at least 500 meters away from the orchards to minimize the incidence of insects and diseases. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed. Khasi Vegetative stage Spray (10 ppm) of Gibberellic acid should
Potting mixture of soil, sand and FYM of compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed. Khasi Vegetative stage Spray (10 ppm) of Gibberellic acid should
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Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed. Khasi Vegetative stage Spray (10 ppm) of Gibberellic acid should
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200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed. Khasi Vegetative stage \$\frac{100}{4} \text{ ppm} \text{ of Gibberellic acid should}\$
Only certified seed should be used. # Stagnation of water in beds should be avoided. # Seedling of uniform height should be selected for planting. # Hooked or bench rooted plants should be discarded. # Plant protection measures should be followed. # Spray (10 ppm) of Gibberellic acid should
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Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed. Wegetative stage Spray (10 ppm) of Gibberellic acid should
selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed. Khasi Vegetative stage \$\frac{1}{2} \text{Paray} \text{ Spray} (10 \text{ ppm}) \text{ of Gibberellic acid should}
Hooked or bench rooted plants should be discarded. Plant protection measures should be followed. Khasi Vegetative stage Spray (10 ppm) of Gibberellic acid should
discarded. Plant protection measures should be followed. Khasi Vegetative stage Spray (10 ppm) of Gibberellic acid should
Plant protection measures should be followed. Khasi Vegetative stage # Spray (10 ppm) of Gibberellic acid should
Khasi Vegetative stage Flant protection measures should be followed. **Flant protection measures should be followed. **Flant protection measures should be followed. **Flant protection measures should be followed.
Khasi Vegetative stage ↓ Spray (10 ppm) of Gibberellic acid should
Mandarin and be done at colour break stage to delay
acid lime colour development, maintain firmness,
extend harvesting period.
SERCHHIP + Drip irrigation system should be preferred
to provide proper water at the feeder root
system.
Fruit drops, which occur at least twice in
each crop, should be controlled with the
recommended doses of GA3, urea,
benomyl and carbendazim at right time.
Insect pests like Blackfly (Kolshi), Citrus
Psylla, Leaf miner, Bark eating caterpillar,
Fruit sucking Moth, Mites, Twing Blight,
Gummosis, Root rot and Collar rot should
be controlled.
Recommended fungicide (Carbendazium)
and proper doses (0.1% or 1000 ppm)
should be sprayed at proper time (One
SAIHA month and 15 days before harvest i.e. two
Sprays). Oil plam Vegetative/ Cleaning near base of the plant and cut
Oil plam Vegetative/ Harvesting stage Unwanted branches.
Tarvesting stage unwanted branches.

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		♣ Application of split dose of fertilizer 600:
		200:100 (g/pt).
	-	♣ Apply micro-nutrients viz. zinc, copper,
	17	manganese, iron, boron and molybdenum
) \ ,	are required in ample quantities for
		supplying nutrients and also reduce serious
	l l	disorders which may lead to decline of the
)	whole orchard.
	(Fruits are harvested when they attain full
	f	size, develop attractive colour with
		optimum sugar and acid blend.
Banana	Vegetative/	Cleaning near base of the plant and cut
	harvesting	unwanted branches.
	5	Application of split dose of fertilizer 600:
)	200:100 (g/pt).
	ì	♣ Apply micro-nutrients viz. zinc, copper,
),	manganese, iron, boron and molybdenum
	\	are required in ample quantities for
	((supplying nutrients and also reduce serious
	1.7	disorders which may lead to decline of the
		SERCHHIP whole orchard.
		Pruning on a regular basis removes unwanted or a sucker, keep production
		mats in optimum condition, saves fertilizer,
		reduces pest and disease.
		Fruits are harvested when they attain full
	1	size, develop attractive yellow colour.
Passion Fruit	Nursery stage	Raising planting materials through seeds,
1 4551011 1 1410	rearsery seage	ripe fruits from vines yielding quality fruits
	'	should be collected and extract the seeds
		should be sown after 15-20 days in raised
		nursery beds.
		₩ When two to three leaves delop, seedling
		should be transplanted in polythene bags.
		★ The seedlings are planted in field when
		SAIHA they become 3-4 months old.
		Apply well decompose FYM @
		15kg/pit/year along with 100.50.100 g
		NPK per pit.
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Pineapple	Flowering stage		4 Apply flowering inducing chemical (Ethrel
			10 PPM+2% urea+0.04% Sodium
			Carbonate) should be applied in the heart
	7.7	3	of the plant. In evening and only when
) \ .	-	plants have at least 32 leaves.
		KOLASIB	♣ The flowering emergence will come out
		ROLAGIB	after 55-60 days after chemical spraying.
	}	W)	♣ Apply split doses of fertilizer @ 60: 50:60
	(13 4 /	g per plant.
	7	(Remove all unwanted leaves, branches and
	/	3	weed near to the plant.
Colocasia	Sowing stage		♣ Planting is done well prepared land or pits
Colocusiu	/ MAMIT	1	filled up with FYM (12-15) t/ha
	l	}	Sprouted corms or cormels are planted 5-7
	ξ	AIZAWL C	deep at a spacing of 40-50 cm between
	\	1 1	and within rows in the pits.
	\	\$	♣ Inorganic fertilizer like Urea, SSP and
	\ \		MOP @ 220: 375: 134 kg.
) /~	Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in
))		root zone when egg laying ooze is
		SERCHHI	observed at plant base.
Cucurbitaceous	Fruiting stage	1/-1	♣ Provide irrigation every 7 days interval
crop			which will give better yield.
F)		♣ In large gardens apply carbaryl 0.2 per
	J	-	cent or malathion 0.15 per cent suspension
		LUNALE	containing sugar or jeggery at 10 g/l at
	<u> </u>	LUNGLEI	fortnightly intervals at flowering and fruit
		_	initiation against fruit fly and pumpkin
	l l	8~	beetle.
	1	(3)(Provide split doses of urea (70g/pt) at the
			time of full blooming.
Okra	Sowing stage	1. Weeding and light	Mulching (if dry spell is there)
		irrigation in	Give irrigation at regular interval
		nursery bed.	Provide banana shading to transplanted
		2. Provide irrigation	seedling.
		in transplanted IHA	\
		okra field.	L .
		1. Aphid (Aphis	Spray surf water solution to the plat
		- 7	1

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	gos <mark>sypii</mark>)	• Spray any one of the insecticides
		Imidacloprid 200 SL @ 0.25ml/lt of water
		(Sucking pest) or Dimethoate 30 % EC
1 1	/	7ml/10lt of water.
	2. Flea beetle	Shake plants to dislodge grubs, pupae and
	(Phylliodes balyi)	adults and destroy.
1	[\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	• Spray any one of the insecticides
("3 A /	Imidacloprid 200 SL @ 0.25ml/lt or Dimethoate 30 % EC 7ml/10lt of water.
7	3. Epilachna beetle.	
/	(Epilachna	• Collect damaged leaves with grubs and egg masses and destroy them.
J	viginctioctopancta	• Spray with methyl parathion 0.5% or
/ MAMIT	ta)	dimethoate 0.3% is effective.
\	4. Leafhopper	• Spray any one of the insecticides
)	(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of water
	devastans)	(Sucking pest) or Dimethoate 30 % EC
4		7ml/10lt of water.
) ~	✓ Bacterial Wilt	• Fields should be kept clean and effected
))	(Pseudomonas	plants are to be uprooted and burnt.
()	solanacearum)	• Spray Copper fungicides to control the
ì		disease (2% Bordeaux mixture.)
\ \		• The disease is more prevalent in the
		presence of root knot Nematodes, so control
		of these nematodes will suppress the disease spread.
	LUNGLEI	• Soil drenching (Streptocycline sulphate 0.3
}		gm/lt of water) and Blitox 50 @ 5gm/ 15lt
	5	water.
-	Damping off	Seed treatment with thiram 3g/kg seed or
		Trichoderma viride 4g+ metalaxyl 4g
		(Apron)/ kg seed
	1 4	Drenching 1% Bordeaux mixture or 2 g
		captan or 3 copper oxychloride/ lt of water
	LAWNGTLALA	at 10-15 DAS are effective.
	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	blot ch	water or Bavistin @ 1g/litre of water, 2-3
		sprayings should be given forthnightly
		intervals.

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			o Spraying of Blitox @ 3 g/l of water was
			found effective against leaf spot.
French bean	Flowering stage		o Remove all unwanted leaves, branches
	1	3	and weed near to the plant.
		[o Earthing up the soil for better aeration.
]	KOLASIB	 Plant should be supported by bamboo or
			woods 20-25 days after sowing.
)	Blister beetle	 Manual collection of insect and destroy it
	5		immediately.
			o Apply cypermethrin 2 gm/lt of water.
Brinjal	Sowing stage		o Equal quantity of sand and well
	₹		decomposed FYM are mixed with soil and
	/ MAMIT	1	raised beds of 75-100 cm width and
	\ \{	AIZAWL C	convenient length are prepared and these
	ì		beds are treated with a solution of 100g of
	l l	3	blue copper dissolved in 40 litres of water
	l l		or formaldehyde.
	\		o The seeds can be sown in lines drawn at a
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		spacing of 5 cm across the beds and cover with top soil.
Tomato	Sowing stage	SERCHHI	Soils of nursery area brought into fine tilth
Tomato	Sowing stage	J- J	and raised beds (0.8 m wide and 15 cm
			height of convenient length).
			Apply 10 kg well decompose FYM along
	J J	_	with 15:15:15 complex fertilizer along
		LUNGLE	with 2.5 g carbofuran/2m ² .
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LUNGLEI	The seeds can be sown in lines drawn at a
	\		spacing of 5 cm across the beds and cover
	1	a 8~	with top soil.
		1. Aphid(Aphis	• Spray surf water solution to the plat.
		gossypii)	Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt of water
		1 2	(Sucking pest) or Dimethoate 30 % EC
			7ml/10lt of water.
		2. Epilachna beetle.	• Spray with methyl parathion 0.5% or
		(Epilachna SAIHA	
		viginctio ctopancta	beetle.
		ta)	O .

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Rice	Nursery stage	Pre Kharif Rice	✓ Use only Well filled and healthy seeds.
			✓ Put the seed in 2.5% salt solution i.e 250 g
			of common salt in 10 lts of water.
	1 1	7	✓ Seed treated with Bavistin 50 WP @ 0.1%
	1 \		(2 g/lt) solution.
		Raised bed method	• The size of each bed should be 10 m in
		1	length in length and 1.25 m in width with
)	W)	20-30 cm wide channel for irrigation,
	5		drainage and easy movement, it takes care
	}	5	of the seedlings without trampling them.
			 Treated seed should be evenly broadcasted
			in each bed after applying manure.
Maize	Sowing stage T		Two to three plough are necessary to get
	\ \{	AIZAWL C	the soil well pulverized and weed free.
)		Seed is being placed in furrows.
	1	3	Seed should be treated with Thiram @4
	1		g/kg seed. Use optimum seed rate (20-25 kg/ha) for
)		desire plant population.
	\ \		Apply well decomposed FYM @ 5-10 t/ha
		SERCHHI	along with $80:60:40$ kg N, P_2O_5 and
			K ₂ O/ha incorporate with soil before
	1		sowing. Half nitrogen dose will use at the
			time of sowing and remaining 25% after
		-	one month and 25% at flowering stage.
Ginger and	Land preparation	LUNGLEI	Remove all unwanted leaves, branches
turmeric		LUITULLI	and weed near to the plant.
	1	C .	Earthing up the soil for better aeration.
	-	0 (~	Apply split dose of nitrogen fertilizer.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt)
			for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5
D'	A 11 -4 · · · · ·	Devision	ml/lt) for controlling scales.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	\
		Respiratory AIHA Syndrome (PRRS).)
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	Audit stage	Swine level.	22 vaccination of pigs with 51 vaccines at 2

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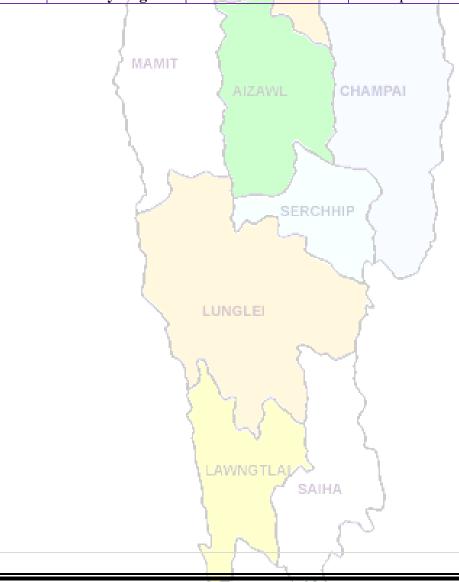
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			months and yearly interval/6 month interval
Cattle	All age group	Foo <mark>t and</mark> Mouth	• FMD vaccine at 16 week and repeat every 6
		Disease (FMD)	month.
	Young stage	Bl <mark>ack Quarter (BQ</mark>)	Black Quarter Vaccine (BQV).
		(Primary vaccination 6 month or above
		KOLASIB	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
)	W)	vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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		SAIHA	\

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Parameters

RAMIN KRISHI MAUSAM SEWA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha Period: 09 - 13 May, 2015

10.05.2015

Bulletin No: -516/2015/ Bulletin/English

09.05.2015

}		
11.05.2015	12.05.2015	13.05.2015
0	0	0
35_	36	35
1.0	1.0	1.0

Date of issue: 08th May, 2015

Rainfall (mm)	0	KOIOASIB	0	0	0
Max Temp (oC)	34	34	35	36	35
Min Temp (oC)	18	18	18	18	18
Cloud Coverage	Clear sky				
Max RH (%)	81	96	98	98	98
Min RH (%)	34	29	31	34	38
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	S E	Е	E	E	S-E

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

STATUS OF PREMONSOON- April 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 185.66mm Champhai- 119.48mm

(68.9mm)(112.8mm)

Saiha- 109.52 mm (40.2mm) Kolasib- 213.61mm (158.9mm)

Lawngtlai-101.62mm

Lunglei-117.82mm

Mamit-236.61mm

Serchhip-110.96mm

(18.5mm)

(33.8mm)

(75.6mm)

(25.9mm)

Weather summary of the past

Weather forecast valid from 09th May, 2015 To 13th May,

SERCHHIP

three days

There is no chance of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 34-36°C and 18°C. Maximum relative humidity is expected in the range of 81-98% and minimum may from 29-38%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Clear sky will prevail during the next five days.

2015.

Weekly cumulative rainfall: 00.0 mm

Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal		Pest/ Diseases	husbandry advisories
/Fisheries			
Khasi	Nursery stage	7	By seeds: Seed should be sown in the
Mandarin and		1	nursery immediately after extraction in to a
acid lime		LAWNGTLAL	depth 1.5 to 2 cm extraction at 10x5 cm
		/ SAIHA	distance. Seedlings are planted in
			secondary bed or polythene bags at 4-6 leaf
			stages.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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Nursery should be located at least 500 meters away from the orchards to minimize the incidence of insects and diseases. **Potting mixture of soil, sand and FYM or compost should be in proper ratio. **Application of split dose of fertilizer 600: 200:100 (g/pt). **Only certified seed should be used. **Stagnation of water in beds should be avoided. **Seedling of uniform height should be selected for planting. **Hooked or bench rooted plants should be discarded. **Plant protection measures should be followed. **Wegetative stage **Mandarin and stage to delay be done at colour break stage to delay to colour development, point of firms are allowed.
Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed. Khasi Mandarin and Vegetative stage Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay
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Khasi Mandarin and Wegetative stage Mandarin and Wegetative
Khasi Vegetative stage Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay
Mandarin and be done at colour break stage to delay
acid lime
acid lime colour development, maintain firmness,
extend harvesting period.
SERCHHIP + Drip irrigation system should be preferred
to provide proper water at the feeder root
system,
Fruit drops, which occur at least twice in
each crop, should be controlled with the
LUNGLE recommended doses of GA3, urea,
benomyl and carbendazim at right time.
Insect pests like Blackfly (Kolshi), Citrus
Psylla, Leaf miner, Bark eating caterpillar,
Fruit sucking Moth, Mites, Twing Blight,
Gummosis, Root rot and Collar rot should
be controlled.
Recommended fungicide (Carbendazium)
and proper doses (0.1% or 1000 ppm)
should be sprayed at proper time (One
SAIHA month and 15 days before harvest i.e. two
Oil plam Vegetative/ sprays). Cleaning near base of the plant and cut
Oil plam Vegetative/ Harvesting stage Cleaning near base of the plant and cut unwanted branches.
Tarvesting stage unwanted branches.

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		♣ Application of split dose of fertilizer 600
		200:100 (g/pt).
		♣ Apply micro-nutrients viz. zinc, copper
	(7)	manganese, iron, boron and molybdenun
) \ ,	are required in ample quantities fo
	"	supplying nutrients and also reduce seriou
		disorders which may lead to decline of the
)	whole orchard.
	(Fruits are harvested when they attain ful
	f	size, develop attractive colour with
		optimum sugar and acid blend.
Banana	Vegetative/	Cleaning near base of the plant and cu
	harvesting	unwanted branches.
	5	Application of split dose of fertilizer 600
)	200:100 (g/pt).
	ì	Apply micro-nutrients viz. zinc, copper
),	manganese, iron, boron and molybdenun
	\	are required in ample quantities fo
	((supplying nutrients and also reduce seriou
	1.7	disorders which may lead to decline of the
		SERCHHIP whole orchard.
	· ·	Pruning on a regular basis remove unwanted or a sucker, keep production
		mats in optimum condition, saves fertilizer
		reduces pest and disease.
		Fruits are harvested when they attain ful
		size, develop attractive yellow colour.
Passion Fruit	Nursery stage	Raising planting materials through seeds
1 4551011 1 1410	rearsery seage	ripe fruits from vines yielding quality fruits
	1	should be collected and extract the seed
		should be sown after 15-20 days in raised
		nursery beds.
		₩ When two to three leaves delop, seedling
		should be transplanted in polythene bags.
		★ The seedlings are planted in field when
		SAIHA they become 3-4 months old.
		Apply well decompose FYM @
		15kg/pit/year along with 100.50.100 g
		NPK per pit.
		3 Page

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Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage MAMIT Colocasia Sowing stage Colocasia Colocasia Sowing stage Colocasia Sowing stage Colocasia Colocasia Sowing stage Colocasia Colocasia Sowing stage Colocasia Sowing stage Colocasia Sowing stage Colocasia Colocasia Sowing stage Colocasia Colocasia Provide inflation every 7 days interval which will give better yield. In large gardens apply carbaryl 0.2 per cent or malathion 15 per cent suspension containing sugar or jeggery at 10 g/l at formightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. Provide spilit doses of urea (70g/pt) at the time of full blooming. Mulching (if dry spell is there) In large gardens of urea (70g/pt) at the time of full blooming. Mulching (if dry spell is there) In large gardens of urea (70g/pt) at the time of full blooming. Mulching (if dry spell is there) In large gardens applic carbaryl 0.2 per cent or malathion of water solution against fruit fly and pumpkin beetle. Provide banana shading to transplanted seedling. Spray surf water solution to the plat	Pineapple	Flowering stage		4 Apply flowering inducing chemical (Ethrel
of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant. Planting is done well prepared land or pits filled up with FYM (12-15) t/ha Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. Provide irrigation every 7 days interval which will give better yield. In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. Provide split doses of urea (70g/pt) at the time of full blooming. Mulching (if dry spell is there) Give irrigation at regular interval Provide banana shading to transplanted seedling.				10 PPM+2% urea+0.04% Sodium
Colocasia Sowing stage MAMIT AZAWI Fruiting stage Cucurbitaceous crop Cucu				Carbonate) should be applied in the heart
The flowering emergence will come out after 55-60 days after chemical spraying.		7.7	3	of the plant. In evening and only when
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irrigation in nursery bed. 2. Provide irrigation in transplanted in transplanted in okra field. Give irrigation at regular interval Provide banana shading to transplanted seedling.	Okra	Sowing stage	1. Weeding and light	Mulching (if dry spell is there)
nursery bed. 2. Provide irrigation in transplanted HA okra field. Provide banana shading to transplanted seedling.				
in transplanted IHA okra field.				Provide banana shading to transplanted
okra field.				seedling.
				\
1. Aphid (Aphis Spray surf water solution to the plat				لہ
			1. Aphid (Aphis	 Spray surf water solution to the plat

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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)



	gossypii) 2. Flea beetle	 Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water. Shake plants to dislodge grubs, pupae and
	(Phylliodes balyi)	adults and destroy. Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt or
	3. Epilachna beetle. (Epilachna	 Dimethoate 30 % EC 7ml/10lt of water. Collect damaged leaves with grubs and egg masses and destroy them.
AMAMIT	viginctioctopancta ta)	 Spray with methyl parathion 0.5% or dimethoate 0.3% is effective.
Ì	4. Leafhopper (Empoasca devastans)	Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
	✓ Bacterial Wilt (Pseudomonas solanacearum)	 Fields should be kept clean and effected plants are to be uprooted and burnt. Spray Copper fungicides to control the disease (2% Bordeaux mixture.) The disease is more prevalent in the presence of root knot Nematodes, so control of these nematodes will suppress the disease
1	LUNGLEI	spread. Soil drenching (Streptocycline sulphate 0.3 gm/lt of water) and Blitox 50 @ 5gm/ 15lt water.
	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 blotch	 Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given forthnightly intervals.

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			o Spraying of Blitox @ 3 g/l of water was
			found effective against leaf spot.
French bean	Flowering stage		o Remove all unwanted leaves, branches
	1	3	and weed near to the plant.
		[o Earthing up the soil for better aeration.
] _	KOLASIB	 Plant should be supported by bamboo or
			woods 20-25 days after sowing.
)	Blister beetle	 Manual collection of insect and destroy it
	5		immediately.
			o Apply cypermethrin 2 gm/lt of water.
Brinjal	Sowing stage		o Equal quantity of sand and well
	{		decomposed FYM are mixed with soil and
	/ MAMIT		raised beds of 75-100 cm width and
	\ \{	AIZAWL C	convenient length are prepared and these
	ì		beds are treated with a solution of 100g of
	l	3	blue copper dissolved in 40 litres of water
	\		or formaldehyde.
	\		o The seeds can be sown in lines drawn at a
	\ \ \\\		spacing of 5 cm across the beds and cover with top soil.
Tomato	Sowing stage	SERCHHI	Soils of nursery area brought into fine tilth
1 omato	Sowing stage	SEKUNNIII	and raised beds (0.8 m wide and 15 cm
			height of convenient length).
			o Apply 10 kg well decompose FYM along
		_	with 15:15:15 complex fertilizer along
			with 2.5 g carbofuran/2m ² .
)	LUNGLEI	The seeds can be sown in lines drawn at a
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	spacing of 5 cm across the beds and cover
		· [~	with top soil.
		1. Aphid(Aphis	• Spray surf water solution to the plat.
		gossypii)	Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt of water
		1 2	(Sucking pest) or Dimethoate 30 % EC
			7ml/10lt of water.
		2. Epilachna beetle.	• Spray with methyl parathion 0.5% or
		(Epilachna SAIHA	
		<mark>viginctio</mark> ctopancta	beetle.
		ta)	<u> </u>

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Rice	Nursery stage	Pre Kharif Rice	✓ Use only Well filled and healthy seeds.
			✓ Put the seed in 2.5% salt solution i.e 250 g
			of common salt in 10 lts of water.
	1 1	7	✓ Seed treated with Bavistin 50 WP @ 0.1%
	1 \		(2 g/lt) solution.
		Raised bed method	• The size of each bed should be 10 m in
		1	length in length and 1.25 m in width with
)	W)	20-30 cm wide channel for irrigation,
	5		drainage and easy movement, it takes care
	}	5	of the seedlings without trampling them.
			 Treated seed should be evenly broadcasted
			in each bed after applying manure.
Maize	Sowing stage T		Two to three plough are necessary to get
	\ \{	AIZAWL C	the soil well pulverized and weed free.
)		Seed is being placed in furrows.
	1	3	Seed should be treated with Thiram @4
	1		g/kg seed. Use optimum seed rate (20-25 kg/ha) for
)		desire plant population.
	\ \		Apply well decomposed FYM @ 5-10 t/ha
		SERCHHI	along with $80:60:40$ kg N, P_2O_5 and
			K ₂ O/ha incorporate with soil before
	1		sowing. Half nitrogen dose will use at the
			time of sowing and remaining 25% after
		-	one month and 25% at flowering stage.
Ginger and	Land preparation	LUNGLEI	Remove all unwanted leaves, branches
turmeric		LUITULLI	and weed near to the plant.
	1	C .	Earthing up the soil for better aeration.
	-	0 (~	Apply split dose of nitrogen fertilizer.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt)
			for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5
D: -	A 11 a4	Downing	ml/lt) for controlling scales.
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
	Audit stage	Swine level.	22 vaccination of pigs with 51 vaccines at 2

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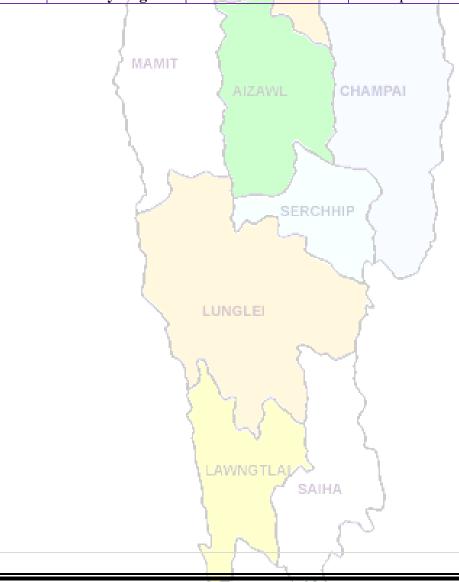
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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



			months and yearly interval/6 month interval
Cattle	All age group	Foo <mark>t and</mark> Mouth	• FMD vaccine at 16 week and repeat every 6
		Disease (FMD)	month.
	Young stage	Bl <mark>ack Quarter (BQ</mark>)	Black Quarter Vaccine (BQV).
		(Primary vaccination 6 month or above
		KOLASIB	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
)	W)	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)



District: Serchhip Period: 09 - 13 May, 2015

Bulletin No: -516/2015/ Bulletin/English

	N 1	/			
Parameters	09.05.2015	10.05.2015	11.05.2015	12.05.2015	13.05.2015
Rainfall (mm)	0	KUI0VEID	4	0	0
Max Temp (oC)	31	33	33-	34	34
Min Temp (oC)	16	17	17	17	18
Cloud Coverage	Clear sky				
Max RH (%)	97	97	100	99	99
Min RH (%)	42	33	38	37	40
Wind Speed (KmpH)	3	2	2	2	2
*Wind Direction	₹ E	E	E	S-E	S-E

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

STATUS OF PREMONSOON- April 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 185.66mm Champhai- 119.48mm Saiha- 109.52 mm Kolas

(112.8mm) (68.9mm) (40.2mm)

9.52 mm Kolasib- 213.61mm (40.2mm) (158.9mm)

Date of issue: 08th May, 2015

Lawngtlai-101.62mm Lunglei-117.82mm

Mamit-236.61mm

Serchhip-110.96mm

(18.5mm)

(33.8mm)

(75.6mm)

(25.9mm)

Weather summary of the past three days Weather forecast valid from 09th May, 2015 To 13th May, 2015.

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 31-34°C and 16-18°C. Maximum relative humidity is expected in the range of 97-100% and minimum may from 33-42%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 04.0 mm

Main Crop/ Animal	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
		T est/ Diseases	nuspanuty auvisories
/Fisheries			
Khasi	Nursery stage	. 7	By seeds: Seed should be sown in the
Mandarin and		1	nursery immediately after extraction in to a
acid lime		LAWNGTLAL	depth 1.5 to 2 cm extraction at 10x5 cm
		SAIHA	distance. Seedlings are planted in
			secondary bed or polythene bags at 4-6 leaf
		ſ	stages.

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		M	Gummosis, Root rot and Collar rot should be controlled. Recommended fungicide (Carbendazium)
	1	a E	Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating caterpillar, Fruit sucking Moth, Mites, Twing Blight,
		LUNGLEI	recommended doses of GA3, urea, benomyl and carbendazim at right time.
	}		Fruit drops, which occur at least twice in each crop, should be controlled with the
	1		to provide proper water at the feeder root system.
		SERCHHI	extend harvesting period. The properties of the
acid lime	} (colour development, maintain firmness,
Khasi Mandarin and	Vegetative stage		♣ Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay
T71 •	3 7 4 4 4		followed.
	\	AIZAWL C	discarded. Plant protection measures should be
	AMAMIT		♣ Hooked or bench rooted plants should be
	J		Seedling of uniform height should be selected for planting.
	}		avoided.
	{	m3 _ 1	♣ Only certified seed should be used.♣ Stagnation of water in beds should be
	{	I. KOLAGIB	200:100 (g/pt).
	\	KOLASIB	compost should be in proper ratio. 4 Application of split dose of fertilizer 600:
	1	3	♣ Potting mixture of soil, sand and FYM or
			the incidence of insects and diseases.
			♣ Nursery should be located at least 500 meters away from the orchards to minimize

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			♣ Application of split dose of fertilizer 600:
			200:100 (g/pt).
			♣ Apply micro-nutrients viz. zinc, copper,
	4 1	3	manganese, iron, boron and molybdenum
		(are required in ample quantities for
] _	KOLASIB	supplying nutrients and also reduce serious
	(/ . C	disorders which may lead to decline of the
)	(A)	whole orchard.
	5		Fruits are harvested when they attain full
	}	5 5	size, develop attractive colour with
D	T 7 4 4 1		optimum sugar and acid blend.
Banana	Vegetative/		Cleaning near base of the plant and cut
	harvesting MIT	1	unwanted branches.
	\ \ \	AIZAWL C	Application of split dose of fertilizer 600:
	ì		200:100 (g/pt). Apply micro-nutrients viz. zinc, copper,
	l l	3	manganese, iron, boron and molybdenum
	\ \		are required in ample quantities for
) A		supplying nutrients and also reduce serious
	\ \		disorders which may lead to decline of the
		SERCHHII	
			Pruning on a regular basis removes
	1		unwanted or a sucker, keep production
			mats in optimum condition, saves fertilizer,
		`	reduces pest and disease.
		LUNGLE	Fruits are harvested when they attain full
	<u> </u>	LUNGLEI	size, develop attractive yellow colour.
Passion Fruit	Nursery stage	-	Raising planting materials through seeds,
	<u></u>	a ?~	ripe fruits from vines yielding quality fruits
			should be collected and extract the seeds
			should be sown after 15-20 days in raised
			nursery beds.
		1 2	When two to three leaves delop, seedling
		1	should be transplanted in polythene bags.
		LAWNGTLAL	The seedlings are planted in field when
		/ SAIHA	they become 3-4 months old.
			Apply well decompose FYM @
			15kg/pit/year along with 100.50.100 g
		W ()	NPK per pit. 3 P a g e

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Pineapple	Flowering stage		♣ Apply flowering inducing chemical (Ethrel
			10 PPM+2% urea+0.04% Sodium
			Carbonate) should be applied in the heart
	7.7	3	of the plant. In evening and only when
) \ .	-	plants have at least 32 leaves.
		KOLASIB	♣ The flowering emergence will come out
		ROLAGIB	after 55-60 days after chemical spraying.
	}	W)	♣ Apply split doses of fertilizer @ 60: 50:60
	(13 4 /	g per plant.
	7	(♣ Remove all unwanted leaves, branches and
	/	3	weed near to the plant.
Colocasia	Sowing stage		♣ Planting is done well prepared land or pits
002000000) MAMIT	A.	filled up with FYM (12-15) t/ha
	l	}	Sprouted corms or cormels are planted 5-7
	ξ	AIZAWL C	deep at a spacing of 40-50 cm between
	\	1 1	and within rows in the pits.
	\	\$	Inorganic fertilizer like Urea, SSP and
	\ \		MOP @ 220: 375: 134 kg.
) /~	Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in
))		root zone when egg laying ooze is
		SERCHHI	observed at plant base.
Cucurbitaceous	Fruiting stage	1/-1	♣ Provide irrigation every 7 days interval
crop			which will give better yield.
СТОР)		♣ In large gardens apply carbaryl 0.2 per
	J	-	cent or malathion 0.15 per cent suspension
			containing sugar or jeggery at 10 g/l at
		LUNGLEI	fortnightly intervals at flowering and fruit
		_	initiation against fruit fly and pumpkin
	L.	5 Ev	beetle.
	"\		Provide split doses of urea (70g/pt) at the
			time of full blooming.
Okra	Sowing stage	1. Weeding and light	Mulching (if dry spell is there)
		irrigation in	Give irrigation at regular interval
		nursery bed.	♣ Provide banana shading to transplanted
		2. Provide irrigation	seedling.
		in transplanted IHA	
		okra field.	L
		1. Aphid (Aphis	Spray surf water solution to the plat
	<u> </u>		

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	gos <mark>sypii</mark>)	• Spray any one of the insecticides
		Imidacloprid 200 SL @ 0.25ml/lt of water
		(Sucking pest) or Dimethoate 30 % EC
1	2 Fl. 1. (1)	7ml/10lt of water.
	2. Flea beetle (Phylliodes balyi)	Shake plants to dislodge grubs, pupae and adults and destroy.
	(1 hylliodes balyt)	adults and destroy. Spray any one of the insecticides
)	1	Imidacloprid 200 SL @ 0.25ml/lt or
(3 1	Dimethoate 30 % EC 7ml/10lt of water.
<u> </u>	3. Epilachna beetle.	Collect damaged leaves with grubs and egg
	(Épilachna	masses and destroy them.
	viginctioctopancta	• Spray with methyl parathion 0.5% or
/ MAMIT	ta)	dimethoate 0.3% is effective.
1	4. Leafhopper	• Spray any one of the insecticides
\	(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of water
\	devastans)	(Sucking pest) or Dimethoate 30 % EC
1	✓ Bacterial Wilt	7ml/10lt of water.
\ <u>\</u>	(Pseudomonas	• Fields should be kept clean and effected plants are to be uprooted and burnt.
	solanacearum)	 Spray Copper fungicides to control the
	SERCHHI	disease (2% Bordeaux mixture.)
,	V (~	• The disease is more prevalent in the
)	4	presence of root knot Nematodes, so control
	_	of these nematodes will suppress the disease
		spread.
	LUNGLEI	• Soil drenching (Streptocycline sulphate 0.3
\ \ \		gm/lt of water) and Blitox 50 @ 5gm/ 15lt
<u></u>	Domning off	water.
	Damping off	Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	5 7 ~ 1	(Apron)/ kg seed
	1 6 4	Drenching 1% Bordeaux mixture or 2 g
	V .	captan or 3 copper oxychloride/ lt of water
	LAWNGTLAL	at 10-15 DAS are effective.
	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	blot ch	water or Bavistin @ 1g/litre of water, 2-3
	ſ	sprayings should be given forthnightly intervals.
		miervais.

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			o Spraying of Blitox @ 3 g/l of water was
			found effective against leaf spot.
French bean	Flowering stage		o Remove all unwanted leaves, branches
	1 1	3	and weed near to the plant.
		[Earthing up the soil for better aeration.
]	KOLASIB	 Plant should be supported by bamboo or
			woods 20-25 days after sowing.
)	Blister beetle	 Manual collection of insect and destroy it
	5		immediately.
			o Apply cypermethrin 2 gm/lt of water.
Brinjal	Sowing stage		o Equal quantity of sand and well
	{		decomposed FYM are mixed with soil and
	/ MAMIT	1	raised beds of 75-100 cm width and
	\ \{	AIZAWL C	convenient length are prepared and these
	ì		beds are treated with a solution of 100g of
	l l	3	blue copper dissolved in 40 litres of water
	l l		or formaldehyde.
	\		o The seeds can be sown in lines drawn at a
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		spacing of 5 cm across the beds and cover with top soil.
Tomato	Sowing stage	SERCHHI	Soils of nursery area brought into fine tilth
Tomato	Sowing stage	SEKUNNIII	and raised beds (0.8 m wide and 15 cm
			height of convenient length).
			Apply 10 kg well decompose FYM along
		_	with 15:15:15 complex fertilizer along
			with 2.5 g carbofuran/2m ² .
)	LUNGLEI	The seeds can be sown in lines drawn at a
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	spacing of 5 cm across the beds and cover
		· [~	with top soil.
		1. Aphid(Aphis	Spray surf water solution to the plat.
		gossypii)	Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt of water
		1	(Sucking pest) or Dimethoate 30 % EC
			7ml/10lt of water.
		2. Epilachna beetle.	• Spray with methyl parathion 0.5% or
		(Epilach na SAIHA	
		<mark>viginctio</mark> ctopancta	beetle.
		ta)	0

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Rice	Nursery stage	Pre Kharif Rice	✓ Use only Well filled and healthy seeds.
			✓ Put the seed in 2.5% salt solution i.e 250 g
			of common salt in 10 lts of water.
	1 1	7	✓ Seed treated with Bavistin 50 WP @ 0.1%
	1 \		(2 g/lt) solution.
		Raised bed method	• The size of each bed should be 10 m in
			length in length and 1.25 m in width with
)	(A)	20-30 cm wide channel for irrigation,
	5		drainage and easy movement, it takes care
	}	5	of the seedlings without trampling them.
			 Treated seed should be evenly broadcasted
			in each bed after applying manure.
Maize	Sowing stage T		Two to three plough are necessary to get
	\ \{	AIZAWL C	the soil well pulverized and weed free.
)		Seed is being placed in furrows.
	1	3	Seed should be treated with Thiram @4
	1		g/kg seed. Use optimum seed rate (20-25 kg/ha) for
)		desire plant population.
	\ \		Apply well decomposed FYM @ 5-10 t/ha
		SERCHHI	along with $80:60:40$ kg N, P_2O_5 and
		V~	K ₂ O/ha incorporate with soil before
	1		sowing. Half nitrogen dose will use at the
			time of sowing and remaining 25% after
		-	one month and 25% at flowering stage.
Ginger and	Land preparation	LUNGLEI	Remove all unwanted leaves, branches
turmeric	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LUITULLI	and weed near to the plant.
	1	C .	Earthing up the soil for better aeration.
	-	0 (~	Apply split dose of nitrogen fertilizer.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt)
			for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5
D'	A 11 -4 · · · · ·	Devi	ml/lt) for controlling scales.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	\
		Respiratory AIHA Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	Audit stage	Swine level.	22 vaccination of pigs with 51 vaccines at 2

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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)



			months and yearly interval/6 month interval
Cattle	All age group	Foo <mark>t and</mark> Mouth	• FMD vaccine at 16 week and repeat every 6
		Disease (FMD)	month.
	Young stage	Bl <mark>ack Quarter (BQ</mark>)	Black Quarter Vaccine (BQV).
		5	 Primary vaccination 6 month or above
		KOLASIB	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
)	(A)	vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Parameters

Rainfall (mm)

Max Temp (oC)

Min Temp (oC)

Max RH (%)

Min RH (%)

Cloud Coverage

*Wind Direction

Wind Speed (KmpH)

RAMIN KRISHI MAUSAM SEWA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl Period: 09 - 13 May, 2015

Bulletin No: -516/2015/ Bulletin/English

	(
10.05.2015	11.05.2015	12.05.2015	13.05.2015
KO10SIR	9	0	0
33	33	33	33
18	18	18	18
Clear sky	Clear sky	Clear sky	Clear sky
96	97	95	94
37	45	43	52

Date of issue: 08th May, 2015

3

S-E

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

STATUS OF PREMONSOON- April 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 185.66mm Champhai- 119.48mm Saiha- 109.52 mm Kolasib- 213.61mm

S-E

(68.9mm)(112.8mm)

09.05.2015

10

26

17

Mainly clear

97 63

4

S-E

(40.2mm)

(158.9mm)Serchhip-110.96mm

3

S

Lawngtlai-101.62mm (18.5mm)

Lunglei-117.82mm (33.8mm)

Mamit-236.61mm (75.6mm)

3

S-E

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 09th May, 2015 To 13th May, 2015.

There are chances of light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 26-33°C and 17-18°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 37-63%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially cloudy

sky will prevail during the next five days.

Weekly cumulative rainfall: 29.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases Agricultural / Horticultural/ animal husbandry advisories	
Khasi Mandarin and acid lime	Nursery stage	LAWNGTLAI SAIHA	♣ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages.

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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)



			♣ Nursery should be located at least 500
			meters away from the orchards to minimiz
	·		the incidence of insects and diseases.
	7.7	/	♣ Potting mixture of soil, sand and FYM of
) \ .		compost should be in proper ratio.
		KOLASIB	♣ Application of split dose of fertilizer 600
		NOLAGID	200:100 (g/pt).
)	W	♣ Only certified seed should be used.
	(3 1	✓ Let Stagnation of water in beds should be
	(avoided.
	J	/	selected for planting.
	MAMIT (Hooked or bench rooted plants should b
	ζ) A 17 A A A	discarded.
	\ \ \	AIZAWL	→ Plant protection measures should b
		ſ	followed.
Khasi	Vegetative stage		Spray (10 ppm) of Gibberellic acid should
Mandarin and	\		be done at colour break stage to delay
acid lime		~ /	colour development, maintain firmness,
			extend harvesting period.
		SERC	
		V- L	to provide proper water at the feeder root
			system.
			Fruit drops, which occur at least twice in
			each crop, should be controlled with the
	\	LUNGLEI	recommended doses of GA3, urea,
	}		benomyl and carbendazim at right time. Insect pests like Blackfly (Kolshi), Citrus
		5	Psylla, Leaf miner, Bark eating caterpillar,
		1	Fruit sucking Moth, Mites, Twing Blight,
			Gummosis, Root rot and Collar rot should
			be controlled.
		N 7 4	Recommended fungicide (Carbendazium)
		V (and proper doses (0.1% or 1000 ppm)
		LAWNGTLAL	should be sprayed at proper time (One
			month and 15 days before harvest i.e. two
		(~~	sprays).
Oil plam	Vegetative/		Cleaning near base of the plant and co
.	Harvesting stage	20	unwanted branches.
	<u>. </u>	N. V.	2 Page

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		♣ Application of split dose of fertilizer 600:
		200:100 (g/pt).
		♣ Apply micro-nutrients viz. zinc, copper,
	\ \ \	manganese, iron, boron and molybdenum
		are required in ample quantities for
		supplying nutrients and also reduce serious
	(disorders which may lead to decline of the
)	whole orchard.
	\ \ \	Fruits are harvested when they attain full
)	size, develop attractive colour with
	T 7	optimum sugar and acid blend.
Banana	Vegetative/	
	harvestingMIT	unwanted branches.
	\ \	Application of split dose of fertilizer 600:
	ì	200:100 (g/pt).
	l l	Apply micro-nutrients viz. zinc, copper,
	1,	manganese, iron, boron and molybdenum are required in ample quantities for
	\	supplying nutrients and also reduce serious
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	disorders which may lead to decline of the
		SERCHHIP whole orchard.
		Pruning on a regular basis removes
		unwanted or a sucker, keep production
		mats in optimum condition, saves fertilizer,
		reduces pest and disease.
		Fruits are harvested when they attain full
		size, develop attractive yellow colour.
Passion Fruit	Nursery stage	Raising planting materials through seeds,
	_	ripe fruits from vines yielding quality fruits
	·	should be collected and extract the seeds
		should be sown after 15-20 days in raised
		nursery beds.
		₩ When two to three leaves delop, seedling
		should be transplanted in polythene bags.
		★ The seedlings are planted in field when
		SAIHA they become 3-4 months old.
		Apply well decompose FYM @
		15kg/pit/year along with 100.50.100 g
		NPK per pit.
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Pineapple	Flowering stage		4 Apply flowering inducing chemical (Ethrel
			10 PPM+2% urea+0.04% Sodium
	·		Carbonate) should be applied in the heart
	()	7	of the plant. In evening and only when
) \ .		plants have at least 32 leaves.
		KOLASIB	♣ The flowering emergence will come out
		KOLASIB	after 55-60 days after chemical spraying.
)	W /	♣ Apply split doses of fertilizer @ 60: 50:60
	(13 A /	g per plant.
	{		Remove all unwanted leaves, branches and
	1		weed near to the plant.
Colocasia	Sowing stage		Planting is done well prepared land or pits
	/ MAMIT		filled up with FYM (12-15) t/ha
	ζ	AIZAWL O	Sprouted corms or cormels are planted 5-7
	\ \ \	AIZAVIL	deep at a spacing of 40-50 cm between
	Ι '	5	and within rows in the pits.
	Ι	~ ~ ?	Inorganic fertilizer like Urea, SSP and
	\		MOP @ 220: 375: 134 kg.
	1	Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in
))		root zone when egg laying ooze is
	Ş	SERCHHI	observed at plant base.
Cucurbitaceous	Fruiting s <mark>tage</mark>	V~ L_,	Provide irrigation every 7 days interval
crop			which will give better yield.
		1	In large gardens apply carbaryl 0.2 per
			cent or malathion 0.15 per cent suspension
		LUNGLEI	containing sugar or jeggery at 10 g/l at
	3		fortnightly intervals at flowering and fruit
		S	initiation against fruit fly and pumpkin
	7	0 (~	beetle.
			Provide split doses of urea (70g/pt) at the
Olama	Coming stage	1 Wooding and light	time of full blooming. Myloking (if day applies there)
Okra	Sowing stage	1. Weeding and light	Mulching (if dry spell is there)
		irrigation in nursery bed.	Give irrigation at regular interval Provide banana shading to transplanted
		2. Provide irrigation	seedling.
		in transplanted IHA	securing.
		okra field.)
		1. Aphid (Aphis	Spray surf water solution to the plat
		то прим прим	Spray surr water solution to the plat

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	goss <mark>ypii</mark>)	• Spray any one of the insecticides
		Imidacloprid 200 SL @ 0.25ml/lt of water
		(Sucking pest) or Dimethoate 30 % EC
1 1	-	7ml/10lt of water.
	2. Flea beetle	• Shake plants to dislodge grubs, pupae and
]	(Phylliodes balyi)	adults and destroy.
	1	• Spray any one of the insecticides
	W)	Imidacloprid 200 SL @ 0.25ml/lt or
ζ	2 1	Dimethoate 30 % EC 7ml/10lt of water.
J-	3. Epilachna beetle.	• Collect damaged leaves with grubs and egg
	(Épilachna	masses and destroy them.
J	viginctioctopancta	• Spray with methyl parathion 0.5% or
/ MAMIT	ta)	dimethoate 0.3% is effective.
\	4. Leafhopper	• Spray any one of the insecticides
ì	(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of water
į į	devastans)	(Sucking pest) or Dimethoate 30 % EC
l l		7ml/10lt of water.
\	✓ Bacterial Wilt	• Fields should be kept clean and effected
{ ((Pseudomonas	plants are to be uprooted and burnt.
1.7	solanacearum)	• Spray Copper fungicides to control the
	SERCHHI	disease (2% Bordeaux mixture.)
	V (-	• The disease is more prevalent in the
		presence of root knot Nematodes, so control
	1	of these nematodes will suppress the disease
		spread.
	LUNGLEI	• Soil drenching (Streptocycline sulphate 0.3
7		gm/lt of water) and Blitox 50 @ 5gm/ 15lt
1	C .	water.
*	Damping off	Seed treatment with thiram 3g/kg seed or
	Damping on	Trichoderma viride 4g+ metalaxyl 4g
	1 7 0	(Apron)/ kg seed
		Drenching 1% Bordeaux mixture or 2 g
		captan or 3 copper oxychloride/ lt of water
	1	at 10-15 DAS are effective.
	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	blotch	water or Bavistin @ 1g/litre of water, 2-3
		sprayings should be given forthnightly
		intervals.
		11101

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			o Spraying of Blitox @ 3 g/l of water was
			found effective against leaf spot.
French bean	Flowering stage		o Remove all unwanted leaves, branches
	5.7	1	and weed near to the plant.
) _,	F 1	 Earthing up the soil for better aeration.
		KOLASIB	 Plant should be supported by bamboo or
			woods 20-25 days after sowing.
)	Blister beetle	 Manual collection of insect and destroy it
	5		immediately.
			o Apply cypermethrin 2 gm/lt of water.
Brinjal	Sowing stage		o Equal quantity of sand and well
			decomposed FYM are mixed with soil and
	/ MAMIT		raised beds of 75-100 cm width and
	}	AIZAWL C	convenient length are prepared and these beds are treated with a solution of 100g of
	\		blue copper dissolved in 40 litres of water
	\	5	or formaldehyde.
	\		 The seeds can be sown in lines drawn at a
) ~		spacing of 5 cm across the beds and cover
))		with top soil.
Tomato	Sowing stage	SERCHHII	Soils of nursery area brought into fine tilth
		V L	and raised beds (0.8 m wide and 15 cm
			height of convenient length).
			o Apply 10 kg well decompose FYM along
			with 15:15:15 complex fertilizer along
		LUNGLEI	with 2.5 g carbofuran/2m ² .
	}		The seeds can be sown in lines drawn at a
		5~~	spacing of 5 cm across the beds and cover
		1 Aphid(Aphig	with top soil.
		1. Aphid(Aphis gossypii)	Spray surf water solution to the plat.Spray any one of the insecticides
		gossypu)	• Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water
		J 63 4	(Sucking pest) or Dimethoate 30 % EC
			7ml/10lt of water.
		2. Epilachna beetle.	• Spray with methyl parathion 0.5% or
		(Epilachna SAIHA	dimethoate 0.3% is effective against flea
		viginctio ctopancta	beetle.
		ta)	√ ·

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Rice	Nursery stage	Pre Kharif Rice	✓ Use only Well filled and healthy seeds.
			✓ Put the seed in 2.5% salt solution i.e 250 g
			of common salt in 10 lts of water.
	1 1	7	✓ Seed treated with Bavistin 50 WP @ 0.1%
	1 \		(2 g/lt) solution.
		Raised bed method	• The size of each bed should be 10 m in
		1	length in length and 1.25 m in width with
)	W)	20-30 cm wide channel for irrigation,
	5		drainage and easy movement, it takes care
	}	5 4	of the seedlings without trampling them.
			Treated seed should be evenly broadcasted
			in each bed after applying manure.
Maize	Sowing stage T		Two to three plough are necessary to get
	\ \{	AIZAWL C	the soil well pulverized and weed free.
)		Seed is being placed in furrows.
	1	3	Seed should be treated with Thiram @4
	1		g/kg seed. Use optimum seed rate (20-25 kg/ha) for
)		desire plant population.
	\ \		Apply well decomposed FYM @ 5-10 t/ha
		SERCHHI	along with $80:60:40$ kg N, P_2O_5 and
			K ₂ O/ha incorporate with soil before
	1		sowing. Half nitrogen dose will use at the
			time of sowing and remaining 25% after
		-	one month and 25% at flowering stage.
Ginger and	Land preparation	LUNGLEI	Remove all unwanted leaves, branches
turmeric	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LUITULLI	and weed near to the plant.
	1	C .	Earthing up the soil for better aeration.
	-	0 (~	Apply split dose of nitrogen fertilizer.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt)
		7 (1)	for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5
D'	A 11 -4 · · · · ·	Devision	ml/lt) for controlling scales.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	\
		Respiratory AIHA Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	Audit stage	Swine level.	2. vaccination of pigs with 51 vaccines at 2

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			months and yearly interval/6 month interval
Cattle	All age group	Foo <mark>t and</mark> Mouth	• FMD vaccine at 16 week and repeat every 6
	[Disease (FMD)	month.
	Young stage	Bl <mark>ack Quarter (BQ</mark>)	Black Quarter Vaccine (BQV).
		(Primary vaccination 6 month or above
		KOLASIB	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
)	W)	vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Champhai Period: 09 - 13 May, 2015

Bulletin No: -516/2015/ Bulletin/English

Date of issue: 08th May, 2015

Parameters	09.05.2015	10.05.2015	11.05.2015	12.05.2015	13.05.2015
Rainfall (mm)	5	KU14velb	11	6	6
Max Temp (oC)	27	33	33-	33	34
Min Temp (oC)	18	19	19	19	19
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	91	92	91	90	90
Min RH (%)	55	32	36	37	44
Wind Speed (KmpH)	4	4	4	3	3
*Wind Direction	S-E	S	S-E	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 PREMONSOON- April 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 185.66mm Champhai- 119.48mm Saiha- 109.52 mm

(68.9mm)(40.2mm)(112.8mm)

Kolasib-213.61mm (158.9mm)

Lawngtlai-101.62mm

Lunglei-117.82mm

Mamit-236.61mm

Serchhip-110.96mm

Weather summary of the past

(18.5mm)

(33.8mm)

(75.6mm)

(25.9mm)

three days

Weather forecast valid from 09th May, 2015 To 13th May, 2015.

There are chances of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-34°C and 18-19⁰C. Maximum relative humidity is expected in the range of 90-92% and minimum may from 32-55%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 32.0 mm

Main Crop/	Stage	Cultural practices/	Agricultural / Horticultural/ animal
Animal		Pest/ Diseases	husbandry advisories
/Fisheries			
Khasi	Nursery stage	7	By seeds: Seed should be sown in the
Mandarin and		1	nursery immediately after extraction in to a
acid lime		LAWNGTLAL	depth 1.5 to 2 cm extraction at 10x5 cm
		/ SAIHA	distance. Seedlings are planted in
			secondary bed or polythene bags at 4-6 leaf
			stages.

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	MAMIT	Nursery should be located a meters away from the orcha the incidence of insects and Potting mixture of soil, sar compost should be in proper Application of split dose of 200:100 (g/pt). Only certified seed should be Stagnation of water in be avoided. Seedling of uniform heigen selected for planting. Hooked or bench rooted per discarded. Plant protection measure followed.	rds to minimize diseases. ad and FYM or ratio. f fertilizer 600: e used. eds should be ght should be lants should be
Khasi Mandarin and	Vegetative stage	Spray (10 ppm) of Gibberell be done at colour break stag	e to delay
acid lime	\$ 5	colour development, maint extend harvesting period.	ain iirmness,
	<i></i>	SERCHHIP + Drip irrigation system shoul	d be preferred
	}	to provide proper water at the	ne feeder root
	5	system. Fruit drops, which occur at 1	east twice in
	J	each crop, should be control	
		recommended doses of GA3	3, urea,
	}	benomyl and carbendazim a	_
	l l	Insect pests like Blackfly (K Psylla, Leaf miner, Bark eat	
)	Fruit sucking Moth, Mites, 7	-
		Gummosis, Root rot and Co	llar rot should
		be controlled. Recommended fungicide (C	orbondozium)
		and proper doses (0.1% or 1	· ·
		should be sprayed at proper	
		SAIHA month and 15 days before h	
011	T 7	sprays).	1
Oil plam	Vegetative/ Harvesting stage	Cleaning near base of the unwanted branches.	plant and cut
	marvesung stage	unwanted branches.	210000
		- No. (2 P a g e

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			♣ Application of split dose of fertilizer 600:
			200:100 (g/pt).
		5	♣ Apply micro-nutrients viz. zinc, copper,
	1 1	3	manganese, iron, boron and molybdenum
		5	are required in ample quantities for
		KOLASIB	supplying nutrients and also reduce serious
	(/. (C)	disorders which may lead to decline of the
)	(A)	whole orchard.
	5		Fruits are harvested when they attain full
		5 4	size, develop attractive colour with
			optimum sugar and acid blend.
Banana	Vegetative/		Cleaning near base of the plant and cut
	harvesting		unwanted branches.
	5	AIZAWL C	Application of split dose of fertilizer 600:
)	7	200:100 (g/pt).
	ì	1	Apply micro-nutrients viz. zinc, copper,
	l l	3 ~ (manganese, iron, boron and molybdenum
	\	1 1	are required in ample quantities for
	((supplying nutrients and also reduce serious
	1/	ornou	disorders which may lead to decline of the whole orchard.
		SERCHHII	
		V (-)	Pruning on a regular basis removes unwanted or a sucker, keep production
)		mats in optimum condition, saves fertilizer,
		~	reduces pest and disease.
			Fruits are harvested when they attain full
	\	LUNGLEI	size, develop attractive yellow colour.
Passion Fruit	Nursery stage		Raising planting materials through seeds,
I assion I fait	rearsery stage	~ &~	ripe fruits from vines yielding quality fruits
	1	R = R	should be collected and extract the seeds
			should be sown after 15-20 days in raised
			nursery beds.
			When two to three leaves delop, seedling
			should be transplanted in polythene bags.
		LAWNGTLAL	The seedlings are planted in field when
		SAIHA	they become 3-4 months old.
			Apply well decompose FYM @
		(15kg/pit/year along with 100.50.100 g
		201	NPK per pit.
		V V. 7	3 P a g e

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Pineapple	Flowering stage		4 Apply flowering inducing chemical (Ethrel
			10 PPM+2% urea+0.04% Sodium
			Carbonate) should be applied in the heart
	()	7	of the plant. In evening and only when
) \ .		plants have at least 32 leaves.
		KOLASIB	♣ The flowering emergence will come out
		KOLASIB	after 55-60 days after chemical spraying.
)	W /	♣ Apply split doses of fertilizer @ 60: 50:60
	(13 A /	g per plant.
	(Remove all unwanted leaves, branches and
	1		weed near to the plant.
Colocasia	Sowing stage		Planting is done well prepared land or pits
	MAMIT (filled up with FYM (12-15) t/ha
	ζ	AIZAWL O	Sprouted corms or cormels are planted 5-7
	\ \ \	CAIZAVVL C	deep at a spacing of 40-50 cm between
	ή	5	and within rows in the pits.
	Ι	~ ~ ?	Inorganic fertilizer like Urea, SSP and
	1		MOP @ 220: 375: 134 kg.
	\ <u>\</u>	Corm borer	Carbofuran 3G @1.5 kg a.i./ha applied in
))		root zone when egg laying ooze is
	S	SERCHHII	observed at plant base.
Cucurbitaceous	Fruiting stage	V~ L_	Provide irrigation every 7 days interval
crop			which will give better yield.
		1	In large gardens apply carbaryl 0.2 per
			cent or malathion 0.15 per cent suspension
		LUNGLEI	containing sugar or jeggery at 10 g/l at
	}		fortnightly intervals at flowering and fruit
	l l		initiation against fruit fly and pumpkin
	``	0	beetle.
			Provide split doses of urea (70g/pt) at the
	G .		time of full blooming.
Okra	Sowing stage	1. Weeding and light	Mulching (if dry spell is there)
		irrigation in	Give irrigation at regular interval
		nursery bed.	Provide banana shading to transplanted
		2. Provide irrigation	seedling.
		in transplanted IHA)
		okra field.	0 0 1 1 1 1 1
		1. Aphid (Aphis	Spray surf water solution to the plat

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	gos <mark>sypii</mark>)	• Spray any one of the insecticides
	gossypu)	• Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water
		(Sucking pest) or Dimethoate 30 % EC
1	1	7ml/10lt of water.
	2. Flea beetle	Shake plants to dislodge grubs, pupae and
	(Phylliodes balyi)	adults and destroy.
{	()	• Spray any one of the insecticides
/	W >)	Imidacloprid 200 SL @ 0.25ml/lt or
<u> </u>		Dimethoate 30 % EC 7ml/10lt of water.
}	3. Epilachna beetle.	• Collect damaged leaves with grubs and egg
	(Epilachna	masses and destroy them.
{	viginctioctopancta	• Spray with methyl parathion 0.5% or
/ MAMIT	ta)	dimethoate 0.3% is effective.
- \{	4. Leafhopper	• Spray any one of the insecticides
ì	(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of water
ì	devastans)	(Sucking pest) or Dimethoate 30 % EC
l l		7ml/10lt of water.
\	✓ Bacterial Wilt	• Fields should be kept clean and effected
(((Pseudomonas	plants are to be uprooted and burnt.
17	solanacearum)	• Spray Copper fungicides to control the
	SERCHHI	disease (2% Bordeaux mixture.)
,	V (-)	• The disease is more prevalent in the
\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		presence of root knot Nematodes, so control
	\\	of these nematodes will suppress the disease
		spread.
	LUNGLEI	• Soil drenching (Streptocycline sulphate 0.3
}		gm/lt of water) and Blitox 50 @ 5gm/ 15lt
	2	water.
	Damping off	Seed treatment with thiram 3g/kg seed or
	Dumping on	Trichoderma viride 4g+ metalaxyl 4g
		(Apron)/ kg seed
	(C) A	Drenching 1% Bordeaux mixture or 2 g
		captan or 3 copper oxychloride/ lt of water
	1	at 10-15 DAS are effective.
	Leaf spot and leaf	o Spraying Dithane M-45 @ 2.5g/litre of
	blotch	water or Bavistin @ 1g/litre of water, 2-3
		sprayings should be given forthnightly
	1	intervals.
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			o Spraying of Blitox @ 3 g/l of water was
			found effective against leaf spot.
French bean	Flowering stage		o Remove all unwanted leaves, branches
	1 1	3	and weed near to the plant.
)	 Earthing up the soil for better aeration.
]	KOLASIB	 Plant should be supported by bamboo or
			woods 20-25 days after sowing.
)	Blister beetle	 Manual collection of insect and destroy it
	5		immediately.
		5	o Apply cypermethrin 2 gm/lt of water.
Brinjal	Sowing stage		o Equal quantity of sand and well
	₹		decomposed FYM are mixed with soil and
	/ MAMIT	1	raised beds of 75-100 cm width and
	\ \	AIZAWL C	convenient length are prepared and these
)		beds are treated with a solution of 100g of
	l l	3	blue copper dissolved in 40 litres of water
	1		or formaldehyde. The seeds can be sown in lines drawn at a
)		o The seeds can be sown in lines drawn at a spacing of 5 cm across the beds and cover
	\ \		with top soil.
Tomato	Sowing stage	SERCHHI	
Tomato	bowing stage		and raised beds (0.8 m wide and 15 cm
	1		height of convenient length).
			o Apply 10 kg well decompose FYM along
		~	with 15:15:15 complex fertilizer along
		LUNGLEI	with 2.5 g carbofuran/2m ² .
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LUNGLEI	The seeds can be sown in lines drawn at a
	1	6	spacing of 5 cm across the beds and cover
	<u>\</u>	v / ~	with top soil.
		1. Aphid(Aphis	Spray surf water solution to the plat.
		gossypii)	Spray any one of the insecticides
			[Imidacloprid 200 SL @ 0.25ml/lt of water
		1	(Sucking pest) or Dimethoate 30 % EC
		AL SARBIDATION AND A	7ml/10lt of water.
		2. Epilachna beetle.	• Spray with methyl parathion 0.5% or
		(Epilachna SAIHA	dimethoate 0.3% is effective against flea
		viginctio ctopancta	beetle.
		ta)	9

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Rice	Nursery stage	Pre Kharif Rice	✓ Use only Well filled and healthy seeds.
			✓ Put the seed in 2.5% salt solution i.e 250 g
			of common salt in 10 lts of water.
	1 1	7	✓ Seed treated with Bavistin 50 WP @ 0.1%
	1 1		(2 g/lt) solution.
		Raised bed method	• The size of each bed should be 10 m in
			length in length and 1.25 m in width with
)	(A)	20-30 cm wide channel for irrigation,
	S .		drainage and easy movement, it takes care
	\	5 4	of the seedlings without trampling them.
			 Treated seed should be evenly broadcasted
			in each bed after applying manure.
Maize	Sowing stage T		Two to three plough are necessary to get
	\ \{\ \{\ \}	AIZAWL C	the soil well pulverized and weed free.
	l	\ \ \ \ \ \	Seed is being placed in furrows.
	l l	3	Seed should be treated with Thiram @4
	1		g/kg seed. Use optimum seed rate (20-25 kg/ha) for
)		desire plant population.
	\ \ \ \		Apply well decomposed FYM @ 5-10 t/ha
		SERCHHI	along with $80:60:40$ kg N, P_2O_5 and
		V~1	K ₂ O/ha incorporate with soil before
	1		sowing. Half nitrogen dose will use at the
		7	time of sowing and remaining 25% after
		-	one month and 25% at flowering stage.
Ginger and	Land preparation	LUNGLEI	Remove all unwanted leaves, branches
turmeric	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LOTTOLLI	and weed near to the plant.
	1	~	Earthing up the soil for better aeration.
	*	0 (~	Apply split dose of nitrogen fertilizer.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt)
			for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5
D'	A 11 -4	Devi	ml/lt) for controlling scales.
Pig	All stages	Porcine	1. Culling of positive pigs or piglets.
		Reproductive	\
		Respiratory AIHA Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	Audit stage	Swine level.	2. vaccination of pigs with 51 vaccines at 2

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			months and yearly interval/6 month interval
Cattle	All age group	Foo <mark>t and</mark> Mouth	• FMD vaccine at 16 week and repeat every 6
		Disease (FMD)	month.
	Young stage	Bl <mark>ack Quarter (BQ</mark>)	Black Quarter Vaccine (BQV).
		(Primary vaccination 6 month or above
		KOLASIB	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B
)	W)	vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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