

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei

Period: 13 - 17 June, 2015

Bulletin No: -526/2015/ Bulletin/English

Date of issue: 12th June, 2015

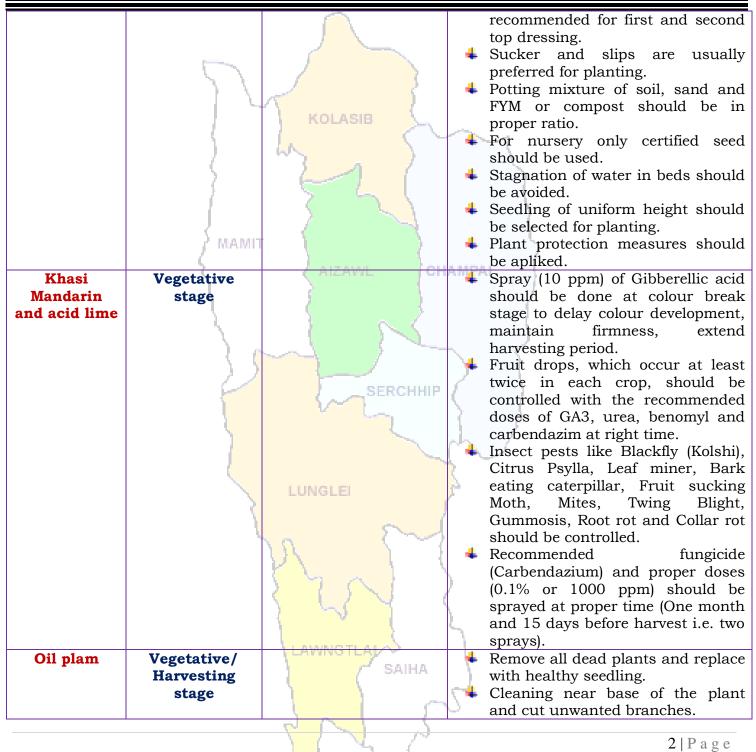
	<u> </u>					
Parameters	13.06.2015	14.06.2015	15.06.2015	16.06.2015	17.06.2015	
Rainfall (mm)	4	3	11	0	6	
Max Temp (oC)	30	30	30	31	31	
Min Temp (oC)	21	20	21	20	21	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	97	95	95	98	96	
Min RH (%)	61	59	57	52	52	
Wind Speed (Km	. pH) 5	6	5	3	4	
*Wind Direction	S-E	S-E	S-E	E	S-E	
	Northerly- N, Nor	rth-Easterly- N-E, Ea	sterly- E, South-l	Easterly- <mark>S-E</mark> ,		
		th-Westerly- <mark>S-W</mark> , We				
STATUS OF PR	EMONSOON- May	1-31, 2015 (Percen	nt of deviation	from normal ir	n parenthesis)	
Aizawl- 383.6	8mm Champha	i- 239.49mm	Saiha- 109.52	mm Kolas	ib- 352.38mm	
(341.	- 8mm)	(250.30mm)	(87.21	nm)	(380.9mm)	
Lawngtlai	- Lunglei	-344.00mm	Mamit-449.48		hip-411.72mm	
321.51mm		(186.21mm)	(442.80)mm)	(25.9mm)	
(285.5			•	· · · · · · · · · · · · · · · · · · ·		
	mmary of the	Weather fored	ast valid from	13 th June, 20	015 To 17 th	
	nree days	Weather forecast valid from 13 th June, 2015 To 17 th June, 2015.				
	There are chances of moderate to heavy rainfall during the n day. The maximum and minimum temperatures for the ne days may range for 30-31°C and 20-21°C. Maximum re- humidity is expected in the range of 95-98% and minimum from 52-61%. Wind direction would be southeasterly with wind speed of 5-6 km per hour. Dense cloudy sky will per during the next five days. Weekly cumulative rainfall: 24.0 mm					
Main Crop/	Stage	Cultural practic	es/ Agricult	tural / Horticu	ltural/ animal	
Animal		Pest/ Disease	S]	husbandry adv	isories	
/Fisheries						
Khasi	Transplant		🔰 🖊 Well	rotten FYM	@ 500g/pit is	
Mandarin	stage				days before	
and acid lime	-	/ SA			12 g each of N	
					and 4 g of	
				/plant.	U	
					Potash/plant is	
L				,	/ 1	
			(1 P a g e	



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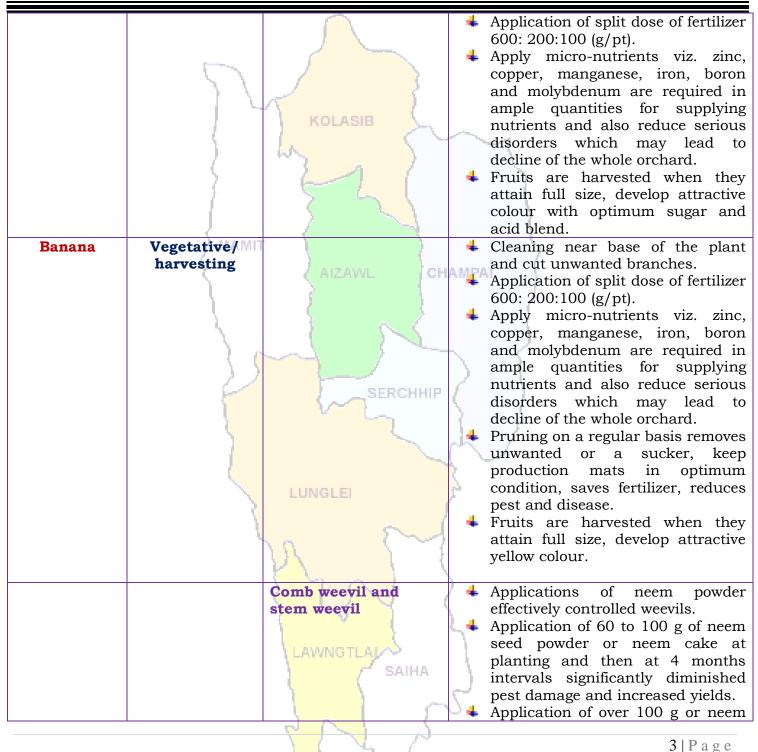




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				oil was phytotoxic (harmful to
				plants) and uneconomical.
Passion Fruit	Nursery stage		4	When two to three leaves develop,
				seedling should be transplanted in
		-		polythene bags.
			-	The seedlings are planted in field
		KOLASIB	-	when they become 3-4 months old.
			- +	Mature 30-35 cm long stem with 3
				nodes of pencil thickness should
				be planted in nursery
	1			beds/polythene bags having
				suitable potting media.
	5		-	Apply well decompose FYM @
	/ MAMIT			15kg/pit/year along with
Dinectoria		AIZAWL	AMP	100.50.100 g NPK per pit.
Pineapple	Flowering		-	Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04%)
	stage			Sodium Carbonate) should be
				applied in the heart of the plant. In
	\			evening and only when plants have
				at least 32 leaves.
	1		4	The flowering emergence will come
		SERCHHIP	(out after 55-60 days after chemical
			$\left \right\rangle$	spraying.
			. 🖊	Apply split doses of fertilizer @ 60:
			(\land)	50:60 g per plant.
			2 🔸	Remove all unwanted leaves,
		LUNGLEI	<u>p</u> h	branches and weed near to the
	<u>}</u>		·	plant.
Colocasia	Vegetative	~ (-	Remove unwanted plant near base
	stage			of the plant and cut dead
				branches.
		NY AL) 📍	Earthing up soil at base of the
			[plant along with split doses of fertilizer.
			1	Proper drainage is required to
		1		avoid water logging.
		LAWNGTLAL	🖕	Mulching with black polythene is
		SAIHA		found beneficial for both reducing
			<u>, </u>	the weed and increasing the yield.
		Corm borer	ं 🖊	Carbofuran 3G @1.5 kg a.i./ha
		R 1 1		
				4 P a g e



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			applied in root zone when egg laying ooze is observed at plant base.
Okra	Flowering stage	1. Clean cultivation or	↓ Mulching (if dry spell is there)
		remove all	Give irrigation at regular interval
		unwanted plant	 ♣ Provide banana shading to
		from plot.	transplanted seedling.
	(()	2. Provide split doses	Provide split doses of fertilizer @
)	of fertilizer.	30kg/ha.
	5		Shallow rooted inter-row
	5		cultivation and hand weeding may
			be used to minimize weeds in the
			inter row zone.
	A MAME		4 Black plastic mulch may be used
	ι (to suppress weed growth The
	5	AIZAWL CH	black plastic mulch also keeps the
			soil warm and encourages plant
			growth.
		1. Aphid (Aphis	• Spray surf water solution to the
) (gossypii)	plat
))		• Spray any one of the insecticides
		SERCHHIP	Imidacloprid 200 SL @ 0.25ml/lt of
	1		water (Sucking pest) or Dimethoate
			30 % EC 7ml/10lt of water.
		2. Blister beetle	• Manual collection of insect and
			destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
		LUNGLEI	water.
	() () () () () () () () () ()	3. Flea beetle	• Shake plants to dislodge grubs,
		(Phylliodes balyi)	pupae and adults and destroy.
			• Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt or
			Dimethoate 30 % EC 7ml/10lt of
		A Failachas hastle	water.
		4. Epilachna beetle. (Epilachna	• Collect damaged leaves with grubs
		viginctioctopancta	and egg masses and destroy them.
			• Spray with methyl parathion 0.5% or dimethoate 0.3% is effective.
		tα) SAIHA 5. Leafhopper	Spray any one of the insecticides
		(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of
		devastans)	water (Sucking pest) or Dimethoate
			5 P a g e



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				30 % EC 7ml/10lt of water.
		✓ Bacterial Wilt	•	Fields should be kept clean and
		(Pseudomonas		effected plants are to be uprooted
		solanacearum)		and burnt.
		~ {	•	Spray Copper fungicides to control
		A KOLAGID		the disease (2% Bordeaux mixture.)
		KOLASIB		The disease is more prevalent in
	<u>}</u>			the presence of root knot
				Nematodes, so control of these
	\rangle			nematodes will suppress the
	1			disease spread.
			•	Soil drenching (Streptocycline
	4			sulphate 0.3 gm/lt of water) and
	/ MAMIT			Blitox 50 @ 5gm/ 15lt water.
French bean	Flowering stage	AIZAWL CH		Remove all unwanted leaves,
				branches and weed near to the
	l i			plant.
	2		•	Earthing up the soil for better
	\ \			aeration.
		<u>∽</u>	\ •	Plant should be supported by
				bamboo or woods 20-25 days after
		SERCHHIP	1	sowing.
		Blister beetle	Ŋ∙ .	Manual collection of insect and
				destroy it immediately.
			n'n	Apply cypermethrin 2 gm/lt of
				water.
Brinjal	Vegetative	LUNGLEI	à +	Remove unwanted plant near base
	stage	LONGLEI	r i	of the plant and cut dead
		~ (branches.
	1		-	Pre emergence application of
				Basalin @0.5 ml/lit of water for
			· .	reduce grass type weed. Mulching with black polythene film
			1 -	reduces weed growth, increases the
				crop growth.
			S.	Split dose of fertilizer application @
				50kg/ha urea.
Tomato	Vegetative	/ SAIHA	4	Remove unwanted plant near base
	stage			of the plant and cut dead
	8-		15	branches.
			Ŭ 🖊 🗌	Pre emergence application of
	1			8 11
				6 P a g e



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	2	KOLASIB	 Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
		1. Aphid(Aphis gossypii)	 Spray surf water solution to the plat. Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
		2. Epilachna beetle. (Epilachna viginctioctopancta ta)	• Spray with methyl parathion 0.5% or dimethoate 0.3% is effective against flea beetle.
Rice	Transplanting stage	Kharif Rice SERCHHIP LUNGLEI	 Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on
			7 P a g e
			/ 1 ag c



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	5		4	seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Sowing stage	AIZAWL		Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and turmeric	Land preparation	LUNGLEI		Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture. Spray Roger or Monocrotophos (2.5
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			ml/lt) for controlling thrips.
		Scales	👃 Spray Quinalphos or
			Monocrotophos (2.5 ml/lt) for
		/ · · · · ·	controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or piglets.
		Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
			vaccines at 2 months and yearly
			interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and
		Disease (FMD)	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	∫ MAMH		✤ Primary vaccination 6 month or
	1 5	AIZAWL CH	AMPA above
			 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth
			and R_2B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat

LUNGLEI

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District: Mamit

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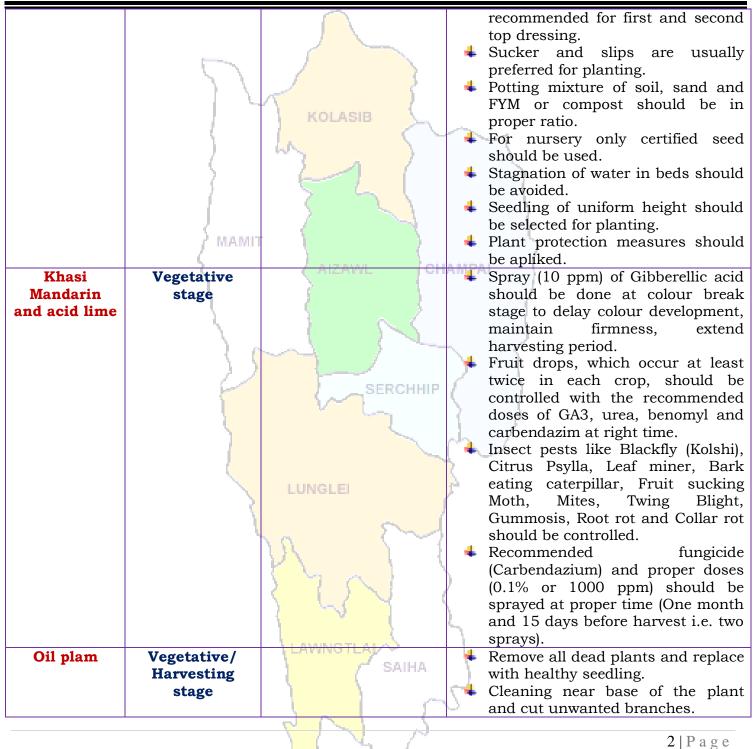
Parameters13.06.201514.06.201515.06.201516.06.201517.06.2Rainfall (mm)1258451129Max Temp (oC)2929273131Min Temp (oC)22212222	015			
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Min Temp (oC) 22 21 22 22 22				
Cloud Coverage Mainly cloudy Mainly cloudy Mainly cloudy Mainly cloudy Mainly cloudy	loudy			
Max RH (%) 98 97 97 98 97				
Min RH (%) 71 74 81 64 63				
Wind Speed (KmpH) 9 6 4 4 4				
*Wind Direction S-E S-E S-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- May 1-31, 2015 (Percent of deviation from normal in parenthe				
Aizawl- 383.68mm Champhai- 239.49mm Saiha- 109.52 mm Kolasib- 352.38	8mm			
(341.8mm) (250.30mm) (87.2mm) (380.9)mm)			
Lawngtlai- Lunglei-344.00mm Mamit-449.48mm Serchhip-411.7	2mm			
321.51mm (186.21mm) (442.80mm) (25.91	mm)			
(285.5mm)				
Weather summary of the Weather forecast valid from 13 th June, 2015 To 17	7 th			
past three days June, 2015.	June, 2015.			
There are chances of moderate to heavy rainfall during the r day. The maximum and minimum temperatures for the n days may range for 25-31°C and 21-22°C. Maximum re humidity is expected in the range of 97-99% and minimum from 63-81%. Wind direction would be southeasterly with wind speed of 4-9 km per hour. Dense cloudy sky will p during the next five days. Weekly cumulative rainfall: 281.0 mm	ext 5 elative n may h the revail			
Main Crop/ Stage Cultural practices/ Agricultural / Horticultural / and	imal			
Animal Pest/Diseases husbandry advisories				
/Fisheries				
Khasi Transplant 4 Well rotten FYM @ 500g/1	oit is			
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and $K_2O/plant$ and 4	g of			
$P_2O_5/plant.$	-			
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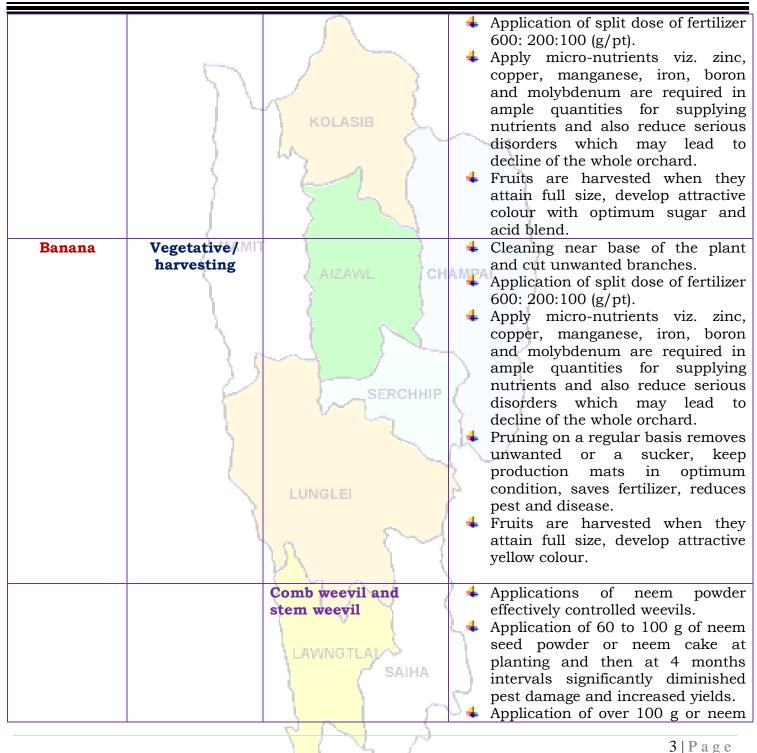




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		~ ~ ~		polythene bags.
		KOLASIB	+	The seedlings are planted in field
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			-	Mature 30-35 cm long stem with 3
	(···· 3 · / /		nodes of pencil thickness should
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	<		•	Apply well decompose FYM @
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		AIZAWL	AMP/	100.50.100 g NPK per pit.
Pineapple	Flowering		*	Apply flowering inducing chemical
	stage			(Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be
				Sodium Carbonate) should be applied in the heart of the plant. In
	\ \			evening and only when plants have
				at least 32 leaves.
	>>		4	The flowering emergence will come
		SERCHHIP	(*	out after 55-60 days after chemical
			\geq	spraying.
			4	Apply split doses of fertilizer @ 60:
			n'	50:60 g per plant.
			24	Remove all unwanted leaves,
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Colocasia	Vegetative	~ (-	Remove unwanted plant near base
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		2 ()) /	/	plant along with split doses of
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			.	avoid water logging.
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			applied in root zone when egg
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Okra	Flowering stage	1. Clean cultivation or	 Mulching (if dry spell is there)
		_remove all	4 Give irrigation at regular interval
		unwanted plant	4 Provide banana shading to
		from plot.	transplanted seedling.
)	2. Provide split doses	Provide split doses of fertilizer @
		of fertilizer.	30kg/ha. Shallow rooted inter-row
	(cultivation and hand weeding may
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			inter row zone.
	A MAMIT		↓ Black plastic mulch may be used
	ς	AIZAWL	to suppress weed growth. The
			black plastic mulch also keeps the
	1		soil warm and encourages plant
		1. Aphid (Aphis	growth.Spray surf water solution to the
		gossypii)	plat
	1 1 1		• Spray any one of the insecticides
		SERCHHIP	Imidacloprid 200 SL @ 0.25ml/lt of
	1		water (Sucking pest) or Dimethoate
			30 % EC 7ml/10lt of water.
	}	2. Blister beetle	• Manual collection of insect and destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
		LUNGLE	water.
	2	3. Flea beetle	• Shake plants to dislodge grubs,
		(Phylliodes balyi)	pupae and adults and destroy.
		NA ST	• Spray any one of the insecticides
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		(Epilachna	and egg masses and destroy them.
		viginctioctopancta	• Spray with methyl parathion 0.5%
		ta) / saiha	or dimethoate 0.3% is effective.
		5. <mark>Leafhopp</mark> er	Spray any one of the insecticides
		(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of
		devastans)	water (Sucking pest) or Dimethoate
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				30 % EC 7ml/10lt of water.
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		1	•	Spray Copper fungicides to control
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		KOLASIB		The disease is more prevalent in
	1			the presence of root knot
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			•	Soil drenching (Streptocycline
	1			sulphate 0.3 gm/lt of water) and
	/ MAMI			Blitox 50 @ 5gm/ 15lt water.
French bean	Flowering stage	AIZAWL CH		Remove all unwanted leaves,
	1 <u>1</u>			branches and weed near to the
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			•	Earthing up the soil for better
				aeration.
	1 1 1		`	Plant should be supported by
))			bamboo or woods 20-25 days after
		SERCHHIP	1	sowing.
		Blister beetle	N• -	Manual collection of insect and
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Brinjal	Vegetative		<u></u>	Remove unwanted plant near base
	stage 🔪	LUNGLEI	2	of the plant and cut dead
	(branches.
		\sim	-	Pre emergence application of
				Basalin @0.5 ml/lit of water for
				reduce grass type weed.
		\mathcal{O}		Mulching with black polythene film
				reduces weed growth, increases the
		Y Y	L.	crop growth.
		I AMINISTI AL	*	Split dose of fertilizer application @
Tomata	Vogototino			50kg/ha urea.
Tomato	Vegetative	SAIHA		Remove unwanted plant near base of the plant and cut dead
	stage		17	of the plant and cut dead branches.
			Sec. 1	Pre emergence application of
			-	
				6 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

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Basalin @0.5 ml/lit of wate reduce grass type weed.	r for
KOLASIB reduces weed growth, increase crop growth. Split dose of fertilizer application 50kg/ha urea.	s the on @
<i>gossypit</i>) <i>gossypit</i>) • Spray any one of the insecti Imidacloprid 200 SL @ 0.25ml water (Sucking pest) or Dimeth 30 % EC 7ml/10lt of water.	cides /lt of noate
2. Epilachna beetle. (Epilachna viginctioctopancta ta) • Spray with methyl parathion or dimethoate 0.3% is effe	
Rice Transplanting stage Kharif Rice Land preparation is done ploughing, harrowing, and lew the field to make it suitable crop establishment. SERCHHIP SERCHHIP Ploughing should be done weeks prior to sowing. LUNGLE After ploughing, harrowing the should be done twice, with week gap between the two. harrowing should be done at the first harrowing. UNGLE Under good management adequate nitrogen levels, optimum spacing for rice var should be around 20x15 cms for kharif and rabi crops.	elling e for 3-4 field one First ter 1 cond cross and the teties both three of s not tage,
	g e



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			 seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Sowing stage	AIZAWL	 Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and turmeric	Land preparation		 Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
		Thrips	→ ↓ Spray Roger or Monocrotophos (2.5



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			ml/lt) for controlling thrips.
		Scales	🜲 Spray Quinalphos or
			Monocrotophos (2.5 ml/lt) for
		~ ~ ~	controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or piglets.
	-	Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
			vaccines at 2 months and yearly
	7		interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and
		Disease (FMD)	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	/ MAMI		✤ Primary vaccination 6 month or
	1 5	AIZAWL CH	AMPAabove
			 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth
			and R_2B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat

LUNGLEI

9 | P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha

Bulletin No: -526/2015/ Bulletin/English

Period: 13 - 17 June, 2015

Date of issue: 12th June, 2015

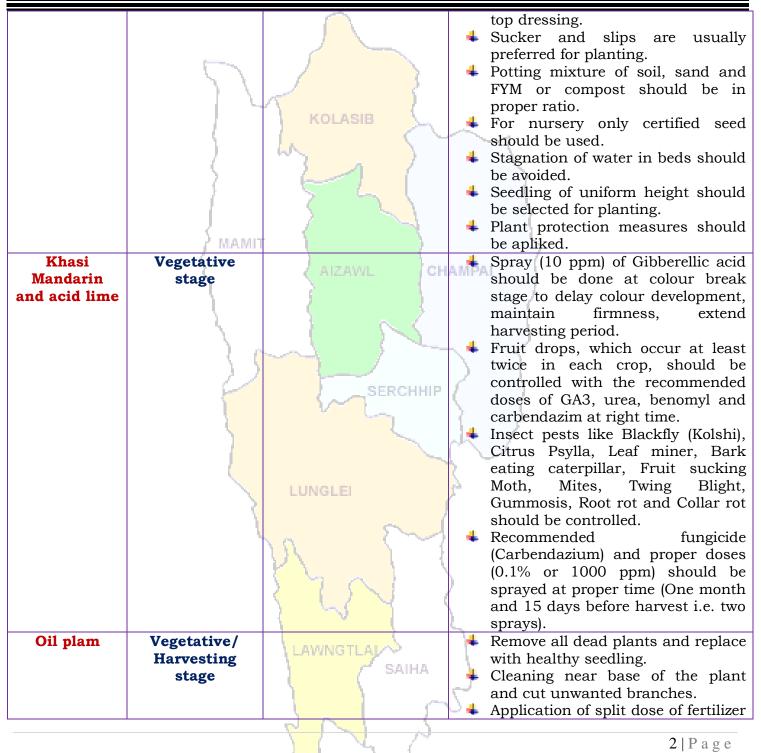
	<u> </u>		1			
Parameters	13.06.2015	14.06.2015	15.06.2015	16.06.2015	17.06.2015	
Rainfall (mm)	3	6	0	0	0	
Max Temp (oC)	30	28	30	31	31	
Min Temp (oC)	20	19	20	20	20	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	96	97	97	97	97	
Min RH (%)	60	81	55	53	51	
Wind Speed (KmpH	4	4	4	2	2	
*Wind Direction	E	E	E	E	Е	
	Northerly- N , Nor	th-Easterly- N-E, Ea	sterly- E, South-l	Easterly- <mark>S-E</mark> ,		
S	outherly- <mark>S</mark> , Sou	th-Westerly- <mark>S-W</mark> , We	esterly-W, North-	westerly- N-W.		
STATUS OF PREM	IONSOON- May	1-31, 2015 (Percen	nt of deviation	from normal ir	n parenthesis)	
Aizawl- 383.68m		i- 239.49mm	Saiha- 109.52		ib- 352.38mm	
(341.8m	m) -	(250.30mm)	(87.21	nm)	(380.9mm)	
Lawngtlai-	· · · · · · · · · · · · · · · · · · ·	344.00mm	Mamit-449.48	· · · · · · · · · · · · · · · · · · ·	hip-411.72mm	
321.51mm	Ŭ	(186.21mm)	(442.80)mm)	(25.9mm)	
(285.5m)			•	· · · · · · · · · · · · · · · · · · ·		
Weather summ		Weather forec	ast valid from	13 th June. 20	015 To 17 th	
past thre		June, 2015.				
pust three	c uuys	There are chances of light rainfall during the next 3 day. The				
		maximum and minimum temperatures for the next 5 days may				
		range for 28-31°C and 19-20°C. Maximum relative humidity is				
		expected in the range of 96-97% and minimum may from 51-81%.				
		Wind direction would be easterly with the wind speed of 2-4 km				
		per hour. Dense cloudy sky will prevail during the next five days.				
		per nour. Dense cloudy sky will prevail during the next live days.				
		TTZ1-	1			
Main Orașe I	Store at		ly cumulative r			
Main Crop/	Stage	Cultural practic	-	ural / Horticul		
Animal		Pest/ Disease	S .	husbandry advi	Isories	
/Fisheries	(Due a sul - u t	1 224	ττ7 11			
Khasi	Transplant	V I			@ 500g/pit is	
Mandarin	stage				days before	
and acid lime		LAWNGTLA	-		12 g each of N	
		/ SA	IHA and		and 4 g of	
				/plant.		
					Potash/plant is	
			reco	mmended for fi	rst and second	
			14		1 Page	



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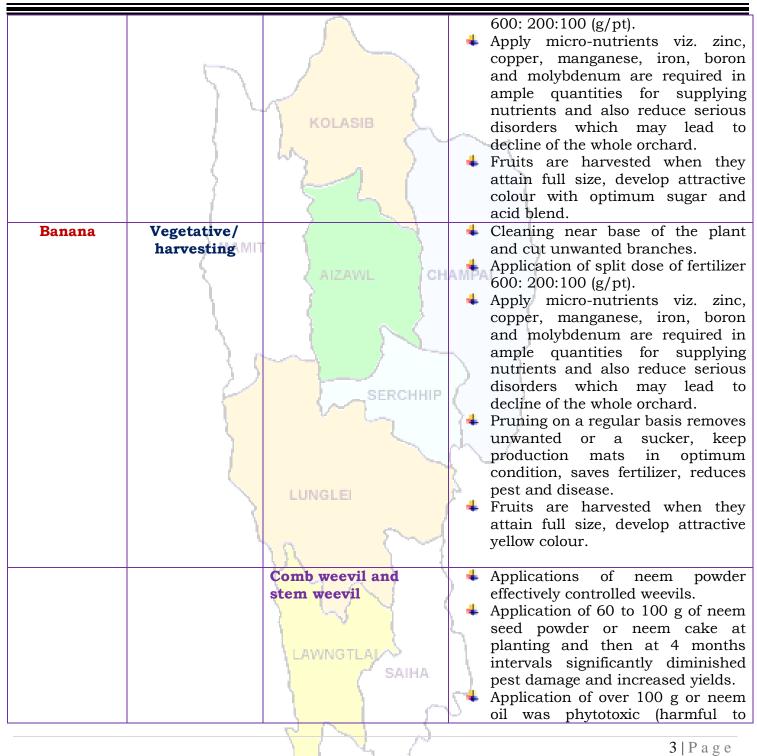




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				plants) and uneconomical.
Passion Fruit	Nursery stage		4	When two to three leaves develop,
	-			seedling should be transplanted in
				polythene bags.
	3 \	2	4	The seedlings are planted in field
				when they become 3-4 months old.
		KOLASIB		Mature 30-35 cm long stem with 3
			and the second se	nodes of pencil thickness should
)			be planted in nursery
				beds/polythene bags having
	}			suitable potting media.
				Apply well decompose FYM @
				15kg/pit/year along with
	A MAMIT			100.50.100 g NPK per pit.
Pineapple	Flowering	AIZAWL CH	A MAR	Apply flowering inducing chemical
	stage	AIZAWL CH		(Ethrel 10 PPM+2% urea+0.04%
				Sodium Carbonate) should be
		5		applied in the heart of the plant. In
				evening and only when plants have
) .		~	at least 32 leaves.
	1.5		¥	The flowering emergence will come
		SERCHHIP	1	out after 55-60 days after chemical
		~ SERCINIE	ς	spraying.
				Apply split doses of fertilizer @ 60:
				50:60 g per plant.
				Remove all unwanted leaves,
	(3	branches and weed near to the
		LUNGLEI		plant.
Colocasia	Vegetative 👌	l j		Remove unwanted plant near base
	stage	\[\lambda \] \[\]		of the plant and cut dead
	,			branches.
				Earthing up soil at base of the
				plant along with split doses of
				fertilizer.
			16	Proper drainage is required to
				avoid water logging.
		LAWNGTLAL		Mulching with black polythene is
		SAIHA		found beneficial for both reducing
				the weed and increasing the yield.
		Corm borer		Carbofuran 3G @1.5 kg a.i./ha
			·	applied in root zone when egg
				4 P a g e
				4 1 dg t



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				laying ooze is observed at plant
			<u> </u>	base.
Okra	Flowering stage	1. Clean cultivation or	- 4	Mulching (if dry spell is there)
		remove all	-	Give irrigation at regular interval
		unwanted plant	- 4	Provide banana shading to
		from plot.		transplanted seedling.
		2. Provide split doses	4	Provide split doses of fertilizer @
		of fertilizer.	\sim	
)	(MS) (I)	4	Shallow rooted inter-row
	5	2 1 (cultivation and hand weeding may
				be used to minimize weeds in the
				inter row zone.
			4	Black plastic mulch may be used
	> MAMIT		- T	to suppress weed growth. The
	1			black plastic mulch also keeps the
	1	AIZAWL CH	AMP)	soil warm and encourages plant
	1			
		1 A-hid (A-hia		growth.
	1	1. Aphid (Aphis	•	Spray surf water solution to the
		gossypii)		plat
		<u>∽</u>		Spray any one of the insecticides
				Imidacloprid 200 SL @ 0.25ml/lt of
		SERCHHIP	1	water (Sucking pest) or Dimethoate
			<u>Ŋ</u>	30 % EC 7ml/10lt of water.
		2. Blister beetle	•	Manual collection of insect and
			nh.	destroy it immediately.
			•	Apply cypermethrin 2 gm/lt of
			5	water.
		3. Flea beetle	F•	Shake plants to dislodge grubs,
	()	(Phylliodes balyi)		pupae and adults and destroy.
		5	•	Spray any one of the insecticides
				Imidacloprid 200 SL @ 0.25ml/lt or
				Dimethoate 30 % EC 7ml/10lt of
		NY OF		water.
		4. Epilachna beetle.	•	Collect damaged leaves with grubs
		(Epilachna)	and egg masses and destroy them.
		viginctioctopancta	•	Spray with methyl parathion 0.5%
		ta)wngtlaj		or dimethoate 0.3% is effective.
		5. Leafhopper SAIHA		Spray any one of the insecticides
		<mark>(Empoas</mark> ca	2	Imidacloprid 200 SL @ 0.25ml/lt of
		<mark>devastan</mark> s) —	0	water (Sucking pest) or Dimethoate
		201 (30 % EC 7ml/10lt of water.
				5 P a g e



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	1		
		✓ Bacterial Wilt	• Fields should be kept clean and
		(Pse <mark>udom</mark> onas	effected plants are to be uprooted
		solanacearum)	and burnt.
			• Spray Copper fungicides to control
	3 \	2	the disease (2% Bordeaux mixture.)
			• The disease is more prevalent in
		KOLASIB	the presence of root knot
	(Nematodes, so control of these
)	- MA	
	(disease spread.
	() () () () () () () () () ()		Soil drenching (Streptocycline
			sulphate 0.3 gm/lt of water) and
	(Blitox 50 @ 5gm/ 15lt water.
French bean	Flowering stage		Remove all unwanted leaves,
	2	AIZAWL CH	AMPA branches and weed near to the
)		plant.
)		• Earthing up the soil for better
			aeration.
			• Plant should be supported by
	1 1 1	\sim) \sim	bamboo or woods 20-25 days after
))		sowing.
		Blister beetle HHIP	 Manual collection of insect and
			destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
			water.
Brinjal	Vegetative		🖌 🖶 Remove unwanted plant near base
-	stage 🗸		of the plant and cut dead
		LUNGLEI	branches.
	(]	4 Pre emergence application of
		~ ~	Basalin @0.5 ml/lit of water for
			reduce grass type weed.
			4 Mulching with black polythene film
			reduces weed growth, increases the
			crop growth.
			🖌 🕹 Split dose of fertilizer application @
			50kg/ha urea.
Tomato	Vegetative	LAWNGTLAL	k Remove unwanted plant near base
	stage	/ SAIHA	of the plant and cut dead
			branches.
			4 Pre emergence application of
			Basalin @0.5 ml/lit of water for
	1		,
			6 P a g e



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	- T	1. Aphid(Aphis gossypii)	 reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea. Spray surf water solution to the plat. Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
		2. Epilachna beetle. (Epilachna viginctioctopancta ta)	• Spray with methyl parathion 0.5% or dimethoate 0.3% is effective AMPA against flea beetle.
Rice	Transplanting stage	Kharif Rice SERCHHIP LUNGLEI	 Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on seedlings. In case of transplanting
			7 P a g e



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				with old seedlings, the number of
				seedlings per hill can be increased.
			- 4	Remove the tip of rice seedling
				which reduces stem borer
	3 \	2		infestation.
Maize	Sowing stage	A	-	Pre-emergence application of
		KOLASIB		Atrazine (Atratraf 50 wp, Gesaprim
			-	500 fw) @ of 1.0-1.5 kg a.i ha-1in
)	NS)		600 litre water, Alachlor (Lasso) @
	ς			2-2.5 kg a.i ha-1, Metolachlor
	((Dual) $@$ 1.5-2.0 kg a.i ha-1,
				Pendamethalin (Stomp) @ 1-1.5 kg
				a.i. ha-large effective way for
	A MAMIT			
	/			control of many annual and broad leaved weeds.
	2	AIZAWL C	HAMP	
			-	Remove unwanted plant hear base
	1	1 2 2		of the plant and cut dead
	2			branches.
			-	Earting up of soil along with
			_	fertilizer mixture.
			1.7*	Foliar spray of 0.1 % Endosulfan {2
		SERCHHI	1	ml (35 EC) in litre water} at 30
			- N	days after germination is very
			-1-	effective against stem borer.
Ginger and	Land		- A-*	Remove unwanted plant near base
turmeric	preparation			of the plant and cut dead
			K.,	branches.
		LUNGLEI	- jr +	Pre-emergence application of
	2		1	Atrazine (Atratraf 50 wp, Gesaprim
		<u> </u>		500 fw) @ of 1.0-1.5 kg a.i ha-1in
			1	600 litre water, Alachlor (Lasso) @
			{	2-2.5 kg a.i ha-1, Metolachlor
		K S A L	1	(Dual) @ 1.5-2.0 kg a.i ha-1,
			1	Pendamethalin (Stomp) @ 1-1.5 kg
			1	a.i. ha-large effective way for
			5	control of many annual and broad
				leaved weeds.
		- SAIHA	1 4	Earting up of soil along with
				fertilizer mixture.
		Thrips	174	Spray Roger or Monocrotophos (2.5
			5	ml/lt) for controlling thrips.
		\sim		0 D
				8 P a g e



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

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		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for	
			controlling scales.	
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or piglets.	
		Respiratory		
		Syndrome (PRRS).		
	Adult stage	Swine fever.	2. Vaccination of pigs with SF	
	1	h S	vaccines at 2 months and yearly	
			interval/6 month interval	
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and	
		Disease (FMD)	repeat every 6 month.	
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).	
	1		Primary vaccination 6 month or	
	/ MAMD		above	
	5	AIZAWI CH	Revaccination annually	
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth	
		{ }	and R_2B vaccine for adult birds.	
	Early stage	Coccidiosis	1. Amprolium or coccidiostat	



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

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/ SAIHA

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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)



District: Serchhip

Date of issue: 12th June, 2015

Period: 13 - 17 June, 2015

Bulletin No	: -526	/2015/	Bulletin	English
		· [

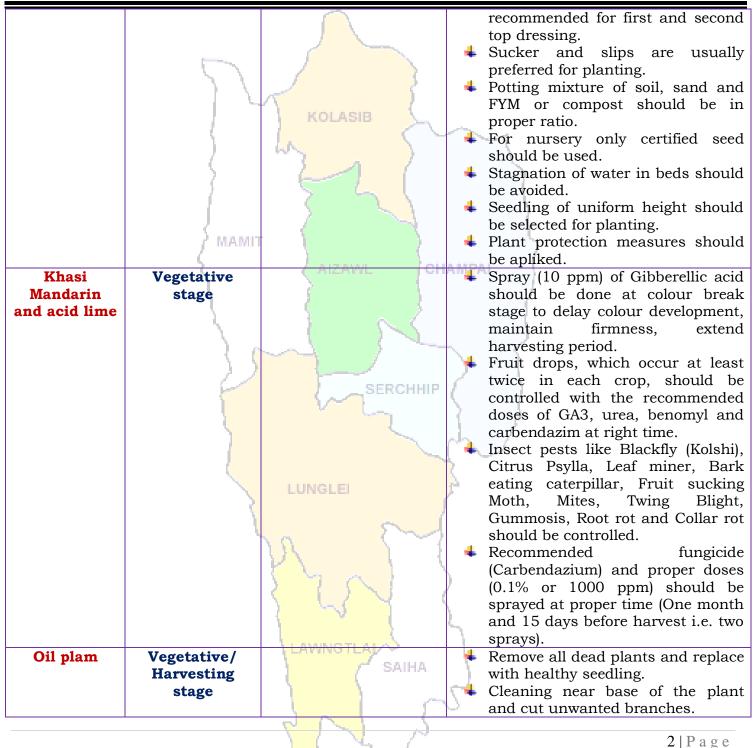
Parameters	13.06.2015		15.06.2015	16.06.2015	17.06.2015	
Rainfall (mm)	58	5	7	4	4	
Max Temp (oC)	29	29	29	30	30	
Min Temp (oC)	20	18	20	19	20	
Cloud Coverage	Mainly cloud	y Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	98	98	99	100	98	
Min RH (%)	62	59	58	56	51	
Wind Speed (Km		4	3	2	2	
*Wind Direction	S-E	S-E	S-E	E	S-E	
		orth-Easterly- <mark>N-E</mark> , Ea				
		th-Westerly- <mark>S-W</mark> , We				
		1-31, 2015 (Percen				
Aizawl- 383.6	· · · · · · · · · · · · · · · · · · ·	ai- 239.49mm	Saiha- 109.52		ib- 352.38mm	
	8mm)	(250.30mm)	(87.21		(380.9mm)	
Lawngtlai		i-344.00mm	Mamit-449.48		hip-411.72mm	
321.51mm		(186.21mm)	(442.80	(mm)	(25.9mm)	
(285.5						
	mmary of the	Weather forecast valid from 13 th June, 2015 To 17 th				
past th	nree days	June, 2015.				
		There are chances of light to heavy rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 18-20°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 51- 62%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Dense cloudy sky will prevail during the next five days.				
			ly cumulative r			
Main Crop/ Animal /Fisheries	Stage	Cultural practic Pest/ Disease		tural / Horticu husbandry advi	-	
Khasi Mandarin and acid lime	Transplant stage		HA appl plan and P ₂ O ₅	ied at 15-20 ting along with K ₂ O/plant a t/plant.	 Ø 500g/pit is days before 12 g each of N and 4 g of Potash/plant is 	
			1		1 Page	



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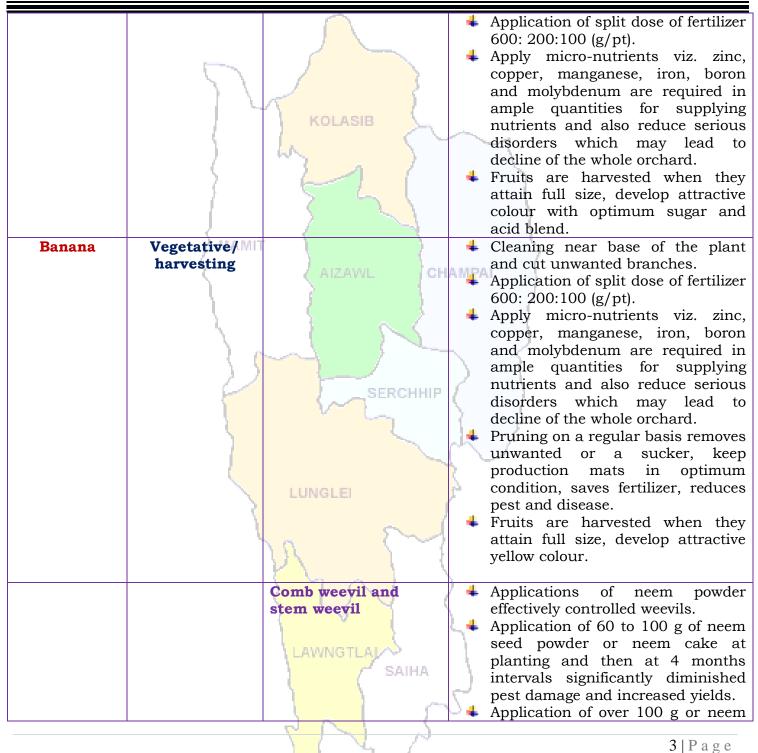




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Guwahati)



1				
				oil was phytotoxic (harmful to
			-	plants) and uneconomical.
Passion Fruit	Nursery stage		+	When two to three leaves develop,
	5			seedling should be transplanted in
	1 \	~ {		polythene bags.
		KOLASIB	+	The seedlings are planted in field
		NOLAGID A	1	when they become 3-4 months old.
			- 4 -	Mature 30-35 cm long stem with 3
	(13 A /		nodes of pencil thickness should
				be planted in nursery
	(beds/polythene bags having
				suitable potting media.
	S an a sair		-	Apply well decompose FYM @
	/ MAMIT			15kg/pit/year along with
Dinconnlo	Flowering	AIZAWL CH	AMPA	100.50.100 g NPK per pit. Apply flowering inducing chemical
Pineapple	Flowering stage		-	(Ethrel 10 PPM+2% urea+0.04%)
	stage			Sodium Carbonate) should be
				applied in the heart of the plant. In
			_	evening and only when plants have
			\mathbb{N}	at least 32 leaves.
			4	The flowering emergence will come
		SERCHHIP	(1	out after 55-60 days after chemical
			$\left(\right)$	spraying.
			4	Apply split doses of fertilizer @ 60:
			\sim	50:60 g per plant.
			} ∔ `	Remove all unwanted leaves,
		LUNGLEI	2	branches and weed near to the
	>	And the first the fact the second		plant.
Colocasia	Vegetative	6	4	Remove unwanted plant near base
	stage			of the plant and cut dead
				branches.
			+ ۱	Earthing up soil at base of the
			/	plant along with split doses of
			\ .	fertilizer.
			^ *	Proper drainage is required to
		LAWNGTLAL		avoid water logging.
		/ SAIHA	۴.	Mulching with black polythene is
			2	found beneficial for both reducing
		Corm borer	<u>}_</u>	the weed and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha
Corin borer Carboiuran SG @1.5 kg a.1./ na				
				4 P a g e



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			applied in root zone when egg
			laying ooze is observed at plant
			base.
Okra	Flowering stage	1. Clean cultivation or	4 Mulching (if dry spell is there)
	1 (_remove all	4 Give irrigation at regular interval
		🐴 unwanted plant	4 Provide banana shading to
		from plot.	transplanted seedling.
	1	2. Provide split doses	+ Provide split doses of fertilizer @
	/	of fertilizer.	30kg/ha.
	5		Shallow rooted inter-row
	5		cultivation and hand weeding may
			be used to minimize weeds in the
			inter row zone.
	A MAMIT		4 Black plastic mulch may be used
	6		to suppress weed growth The
	ξ	AIZAWL CH	black plastic mulch also keeps the
			soil warm and encourages plant
		ις <u>γ</u>	growth.
		1. Aphid (Aphis	• Spray surf water solution to the
		gossypii)	plat
			• Spray any one of the insecticides
	2	05001110	Imidacloprid 200 SL @ 0.25ml/lt of
		SERCHHIP	water (Sucking pest) or Dimethoate
			30% EC 7ml/10lt of water.
		2. Blister beetle	Manual collection of insect and
			destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
		LUNGLEI	water.
	2	3. Flea beetle	• Shake plants to dislodge grubs,
	1	(Phylliodes balyi)	pupae and adults and destroy.
			 Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt or
			Dimethoate 30 % EC 7ml/10lt of
			water.
		4. Epilachna beetle.	Collect damaged leaves with grubs
		(Epilachna	and egg masses and destroy them.
		viginctioctopancta	• Spray with methyl parathion 0.5%
		ta) SAIHA	or dimethoate 0.3% is effective.
		5. Leafhopper	 Spray any one of the insecticides
		(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of
		devastans)	water (Sucking pest) or Dimethoate
L	1		
			5 P a g e



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				30 % EC 7ml/10lt of water.
		✓ Bacterial Wilt	•	Fields should be kept clean and
		(Pseudomonas		effected plants are to be uprooted
		solanacearum)		and burnt.
		1	•	Spray Copper fungicides to control
		△		the disease (2% Bordeaux mixture.)
		KOLASIB		The disease is more prevalent in
	1			the presence of root knot
	1	~~~)		Nematodes, so control of these
	>			nematodes will suppress the
	2			disease spread.
			•	Soil drenching (Streptocycline
	1			sulphate 0.3 gm/lt of water) and
	/ MAMI			Blitox 50 @ 5gm/ 15lt water.
French bean	Flowering stage	AIZAWL CH	AMP	Remove all unwanted leaves,
	1 T			branches and weed near to the
	1			plant.
			•	Earthing up the soil for better
				aeration.
	1 1 1		`	Plant should be supported by
				bamboo or woods 20-25 days after
		SERCHHIP	1	sowing.
		Blister beetle	N• .	Manual collection of insect and
				destroy it immediately.
			ph.	Apply cypermethrin 2 gm/lt of
				water.
Brinjal	Vegetative		<u> </u> {} + _{}	Remove unwanted plant near base
	stage	LUNGLEI	1	of the plant and cut dead
	(branches.
			🔸	Pre emergence application of
				Basalin @0.5 ml/lit of water for
				reduce grass type weed.
			∦ +	Mulching with black polythene film
				reduces weed growth, increases the
		Y (L.,	crop growth.
			1	Split dose of fertilizer application @
Tomato	Vogototino			50kg/ha urea.
Tomato	Vegetative	C SAIHA		Remove unwanted plant near base of the plant and cut dead
	stage		5	branches.
			\square	Pre emergence application of
			-	
				6 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM



Basalin @0.5 ml/lit of water reduce grass type weed. Mulching with black polythene reduces weed growth, increase	r for
KOLASIB crop growth. KOLASIB Split dose of fertilizer applicati 50kg/ha urea. 1. Aphid(Aphis Spray surf water solution to 10 t	s the on @
<i>gossypii</i>) <i>gossypii</i>) • Spray any one of the insection Imidacloprid 200 SL @ 0.25ml water (Sucking pest) or Dimeth 30 % EC 7ml/10lt of water.	cides /lt of noate
2. Epilachna beetle. • Spray with methyl parathion (Epilachna • Spray with methyl parathion viginctioctopancta • against flea beetle. ta) • Spray with methyl parathion	
RiceTransplanting stageKharif RiceLand preparation is done ploughing, harrowing, and leve the field to make it suitable crop establishment.SERCHHIPSERCHHIPPloughing should be done weeks prior to sowing.LUNGLEILUNGLEIAfter ploughing, harrowing the should be done twice, with week gap between the two. harrowing should be done af week of ploughing. The se harrowing.LUNGLEIUnder good management adequate nitrogen levels, optimum spacing for rice vari should be around 20x15 cms for kharif and rabi crops.	elling e for 3-4 field one First ter 1 cond cross and the teties both three of s not tage,
7 Pa	ge



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	5		+	seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Sowing stage	AIZAWL	AMP/	Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and turmeric	Land preparation			Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
		Thrips	∂‡	Spray Roger or Monocrotophos (2.5 8 P a g e



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			ml/lt) for controlling thrips.
		Scales	🜲 Spray Quinalphos or
			Monocrotophos (2.5 ml/lt) for
		/ 2	controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or piglets.
		Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
			vaccines at 2 months and yearly
	2		interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and
		Disease (FMD)	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	/ MAMH		✤ Primary vaccination 6 month or
	1 - E	AIZAWL CH	AMPAabove
			 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth
			and R_2B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat

LUNGLEI

9 | P a g e



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		/ SAIHA	

10 | P a g e



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





District: Aizawl

Bulletin No: -526/2015/ Bulletin/English

Period: 13 - 17 June, 2015

Date of issue: 12th June, 2015

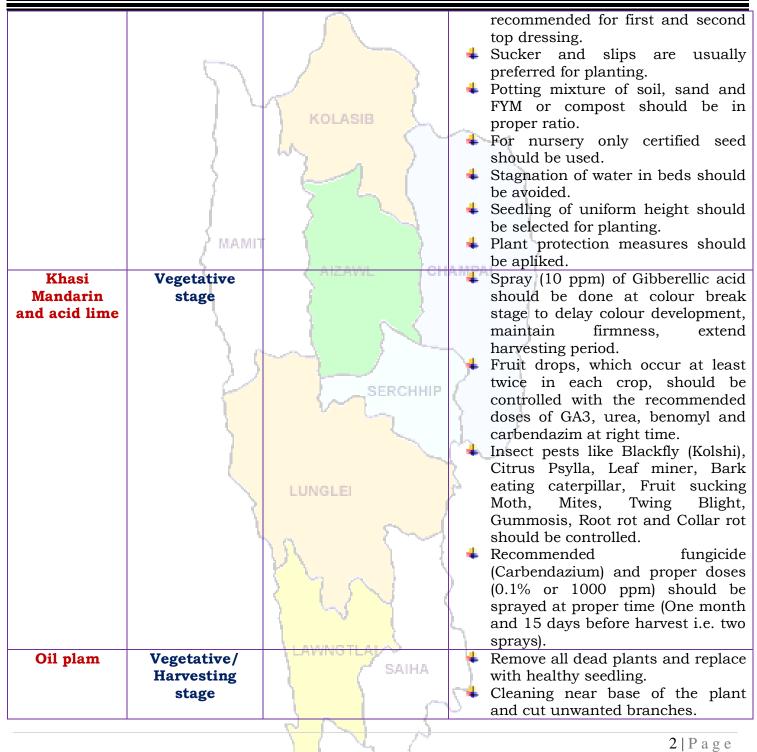
	<u> </u>	(
Parameters	13.06.2015	14.06.2015	15.06.2015	16.06.2015	17.06.2015
Rainfall (mm)	158	80	51	12	9
Max Temp (oC)	27	27	27	29	30
Min Temp (oC)	16	16	16	16	16
Cloud Coverage	Mainly cloud	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	97	98	98	98
Min RH (%)	72	80	78	68	60
Wind Speed (Km	р н) б	4	3	2	3
*Wind Direction	S-E	S-E	S-E	S-E	S-E
	Northerly- N, No	rth-Easterly- <mark>N-E</mark> , Ea	sterly- E, South-l	Easterly- <mark>S-E</mark> ,	
	Southerly- S, Sou	th-Westerly- S-W, We	esterly-W, North-	westerly- N-W.	
STATUS OF PR	EMONSOON- May	1-31, 2015 (Percen	nt of deviation	from normal ir	ı parenthesis)
Aizawl- 383.6		i- 239.49mm	Saiha- 109.52		ib- 352.38mm
(341.		(250.30mm)	(87.21	nm)	(380.9mm)
Lawngtlai	- Lunglei	-344.00mm	Mamit-449.48	mm Serch	hip-411.72mm
321.51mr	n	(186.21mm)	(442.80)mm)	(25.9mm)
(285.	5mm)		•	•	
Weather su	mmary of the	Weather forec	ast valid from	13 th June. 20	015 To 17 th
	hree days	June, 2015.			
	There are chances of moderate to heavy rainfall during the ned day. The maximum and minimum temperatures for the ned ays may range for 27-30°C and 16°C. Maximum rela humidity is expected in the range of 97-98% and minimum from 60-80%. Wind direction would be southeasterly with wind speed of 2-6 km per hour. Dense cloudy sky will pro- during the next five days. Weekly cumulative rainfall: 310.0 mm				
Main Crop/	Stage	Cultural practic	es/ Agricult	tural / Horticu	ltural/ animal
Animal		Pest/ Diseases	S I	husbandry adv	isories
/Fisheries					
Khasi	Transplant		🔰 🖊 Well	rotten FYM	@ 500g/pit is
Mandarin	stage	LAWNGTLAL	appl	ied at 15-20	days before
and acid lime	_	/ SA	IHA plan	ting along with	12 g each of N
			and		and 4 g of
			P_2O_5	/plant.	U
				, 1	Potash/plant is
L	1		<u> </u>	, <u> </u>	<i>,</i> <u>-</u>
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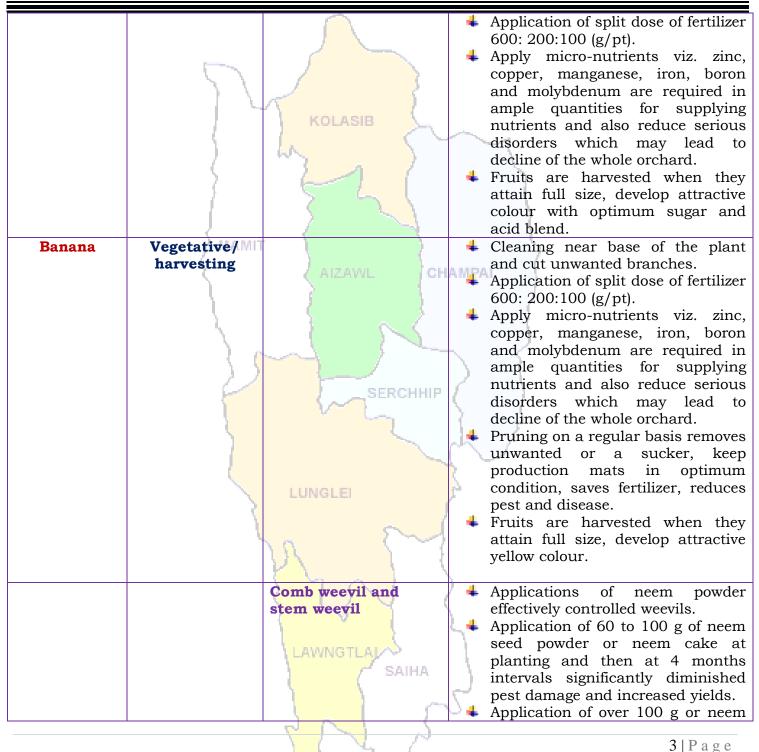




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Passion Fruit				oil was phytotoxic (harmful to
Passion Fruit				oil was phytotoxic (harmful to
Passion Fruit				plants) and uneconomical.
rassion Fruit	Nursery stage		-	When two to three leaves develop,
	5			seedling should be transplanted in
	1	5		polythene bags.
		KOLASIB		The seedlings are planted in field
				when they become 3-4 months old.
				Mature 30-35 cm long stem with 3
	(3 4 /		nodes of pencil thickness should
	7			be planted in nursery
	1			beds/polythene bags having
				suitable potting media.
	A MAMIT		-	Apply well decompose FYM @
				15kg/pit/year along with
Dimographo	Flowering	AIZAWL CH	AMPA	100.50.100 g NPK per pit. Apply flowering inducing chemical
Pineapple	stage		-	(Ethrel 10 PPM+2% urea+0.04%
	stage			Sodium Carbonate) should be
				applied in the heart of the plant. In
	\		_	evening and only when plants have
			\mathbf{N}	at least 32 leaves.
			A .	The flowering emergence will come
		SERCHHIP	()	out after 55-60 days after chemical
			$\left \right\rangle$	spraying.
			4	Apply split doses of fertilizer @ 60:
			\sim	50:60 g per plant.
			2 🗸 🗍	Remove all unwanted leaves,
		LUNGLEI	è	branches and weed near to the
	>		F	plant.
Colocasia	Vegetative	S (4	Remove unwanted plant near base
	stage			of the plant and cut dead
				branches.
				Earthing up soil at base of the
				plant along with split doses of
			1.	fertilizer.
				Proper drainage is required to
				avoid water logging.
		SAIHA		Mulching with black polythene is
				found beneficial for both reducing
				the weed and increasing the yield.
		Corm borer	-	Carbofuran 3G @1.5 kg a.i./ha
		N. M		4 P a g e



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			applied in root zone when egg
			laying ooze is observed at plant
			base.
Okra	Flowering stage	1. Clean cultivation or	4 Mulching (if dry spell is there)
		remove all	4 Give irrigation at regular interval
		unwanted plant	4 Provide banana shading to
		from plot.	transplanted seedling.
		2. Provide split doses	+ Provide split doses of fertilizer @
	/	of fertilizer.	30kg/ha.
	5		4 Shallow rooted inter-row
	5		cultivation and hand weeding may
			be used to minimize weeds in the
			inter row zone.
	A MAMIT		♣ Black plastic mulch may be used
	1		to suppress weed growth The
	1	AIZAWL CH	black plastic mulch also keeps the
	L L		soil warm and encourages plant
			growth.
		1. Aphid (Aphis	• Spray surf water solution to the
		gossypii)	plat
			• Spray any one of the insecticides
		05001000	Imidacloprid 200 SL @ 0.25ml/lt of
		SERCHHIP	water (Sucking pest) or Dimethoate
			30 % EC 7ml/10lt of water.
		2. Blister beetle	Manual collection of insect and
			destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
		LUNGLE	water.
		3. Flea beetle	• Shake plants to dislodge grubs,
		(Phylliodes balyi)	pupae and adults and destroy.
	L		 Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt or
			Dimethoate 30 % EC 7ml/10lt of
		2 1 5 1 1	water.
		4. Epilachna beetle.	Collect damaged leaves with grubs
		(Epilachna	and egg masses and destroy them.
		viginctioctopancta	
			• Spray with methyl parathion 0.5% or dimethoate 0.3% is effective.
		5. Leafhopper	
			Spray any one of the insecticides
		(Empoasca devastans)	Imidacloprid 200 SL @ 0.25ml/lt of (Suplains next) on Dimetheoto
		aevasiansj	water (Sucking pest) or Dimethoate
			5 P a g e



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			30	0 % EC 7ml/10lt of water.
		✓ Bacterial Wilt	• Fi	elds should be kept clean and
		(Pseudomonas	eff	fected plants are to be uprooted
		solanacearum)		nd burnt.
) (2	• Sp	oray Copper fungicides to control
		Δ	-	e disease (2% Bordeaux mixture.)
		KOLASIB		ne disease is more prevalent in
	1		th	-
				ematodes, so control of these
	\rangle			ematodes will suppress the
	· · · · · · · · · · · · · · · · · · ·		di	sease spread.
			• Sc	
	1		su	ulphate 0.3 gm/lt of water) and
	/ MAMI			itox 50 @ 5gm/ 15lt water.
French bean	Flowering stage	AIZAWL CH		emove all unwanted leaves,
			br	anches and weed near to the
	1		pla	ant.
	1	~ 1	• Ea	arthing up the soil for better
			ae	eration.
		$\sim \rightarrow$) \sim	▶ Pla	ant should be supported by
) ba	amboo or woods 20-25 days after
		SERCHHIP	so	wing.
		Blister beetle)• Ma	anual collection of insect and
			de	estroy it immediately.
				oply cypermethrin 2 gm/lt of
				ater.
Brinjal	Vegetative	LUNGLEI		emove unwanted plant near base
	stage	LONGLEI		the plant and cut dead
		~ (anches.
	1		🔸 Pr	0 11
				asalin @0.5 ml/lit of water for
				duce grass type weed.
		2 2 5 1 1		ulching with black polythene film duces weed growth, increases the
				op growth.
				blit dose of fertilizer application @
				Dkg/ha urea.
Tomato	Vegetative	/ SAIHA		emove unwanted plant near base
	stage			the plant and cut dead
	8-			anches.
		2010	🖌 🕌 Pr	
				6 P a g e
				Uliage



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	KOLASIB 1. Aphid(Aphis gossypii)	 Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea. Spray surf water solution to the plat.
		 Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
	ta)	
Rice Transpla stag		 Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not
		5 being any additional advantage, involves an extra expense on
		7 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



	5		4	seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased. Remove the tip of rice seedling which reduces stem borer
		KOLASIR		infestation.
Maize	Sowing stage			Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and turmeric	Land preparation	LUNGLEI	4	Remove unwanted plant near base of the plant and cut dead branches.
				Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
		Thrips	ੇ 🖡	Spray Roger or Monocrotophos (2.5
				8 P a g e



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			ml/lt) for controlling thrips.
		Scales	👃 Spray Quinalphos or
			Monocrotophos (2.5 ml/lt) for
			controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or piglets.
		Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
		~~~ /	vaccines at 2 months and yearly
	2		interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and
		Disease (FMD)	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	/ MAMH		✤ Primary vaccination 6 month or
	2	AIZAWL CH	a mpa above
			<ul> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth
			and $R_2B$ vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	





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Mizoram Centre, Kolasib- 796081, MIZORAM (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,





District: Champhai

Period: 13 - 17 June, 2015

Bulletin No: -526/2015	/ Bulletin/English
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Date of issue: 12th June, 2015

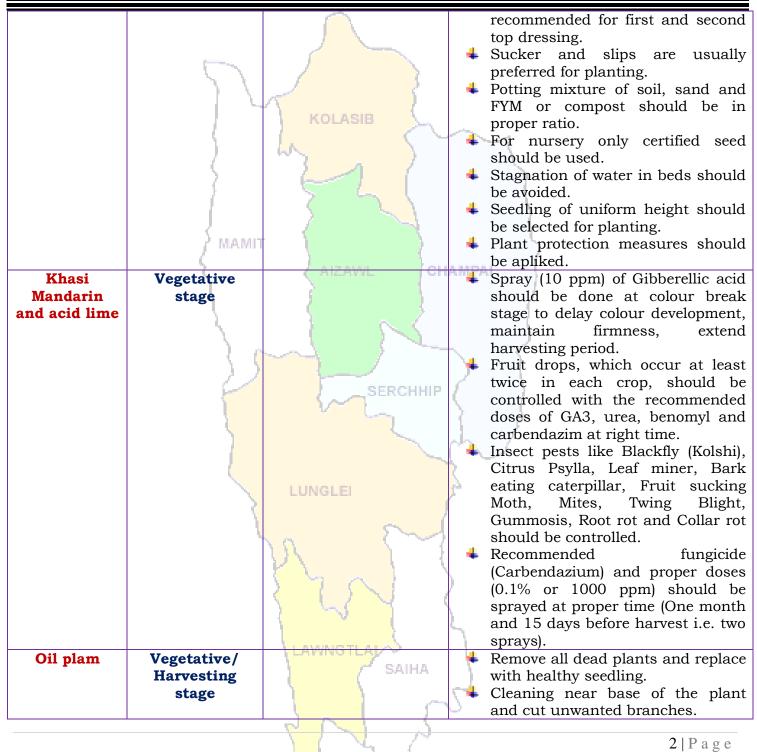
Parameters	13.06.2015		15.06.2015	16.06.2015	17.06.2015
Rainfall (mm)	139	19	21	14	8
Max Temp (oC)	28	27	28	29	29
Min Temp (oC)	21	19	20	20	21
Cloud Coverage	Mainly cloud	y Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	96	95	96	95
Min RH (%)	69	75	65	63	55
Wind Speed (Km	pH) 4	4	3	2	3
*Wind Direction	S	S	S	S	S
		rth-Easterly- <mark>N-E</mark> , Ea			
		th-Westerly- <mark>S-W</mark> , We			
STATUS OF PR	EMONSOON- May	1-31, 2015 (Percent			
Aizawl- 383.6	8mm Champha	i- 239.49mm	Saiha- 109.52	mm Kolas	ib - 352.38mm
(341.	8mm)	(250.30mm)	(87.21	nm)	(380.9mm)
Lawngtlai	- Lunglei	-344.00mm	Mamit-449.48	mm Serch	hip-411.72mm
321.51mm	n	(186.21mm)	(442.80)mm)	(25.9mm)
(285.5	5mm)				
Weather sur	mmary of the	Weather fored	cast valid from	13 th June, 20	015 To 17 th
	nree days	June, 2015.			
			m and minimum for 27-29°C and red in the range nd direction work km per hour. e days. Ly cumulative re	n temperatures d 19-21°C. Ma of 95-97% and uld be southea Dense cloudy	for the next 5 ximum relative minimum may sterly with the sky will prevail mm
Main Crop/	Stage	Cultural practic	es/ Agricult	ural / Horticu	ltural/ animal
Animal		Pest/ Disease	s 1	husbandry adv	isories
/Fisheries					
Khasi	Transplant				@ 500g/pit is
Mandarin	stage				days before
and acid lime		/ SA	-	0	12 g each of N
				K ₂ O/plant	and 4 g of
			P_2O_5	/plant.	_
		201	🛛 👌 📔 🖊 12 g	Nitrogen and	Potash/plant is
I			<u></u>	J	<i></i>
			(1 P a g e



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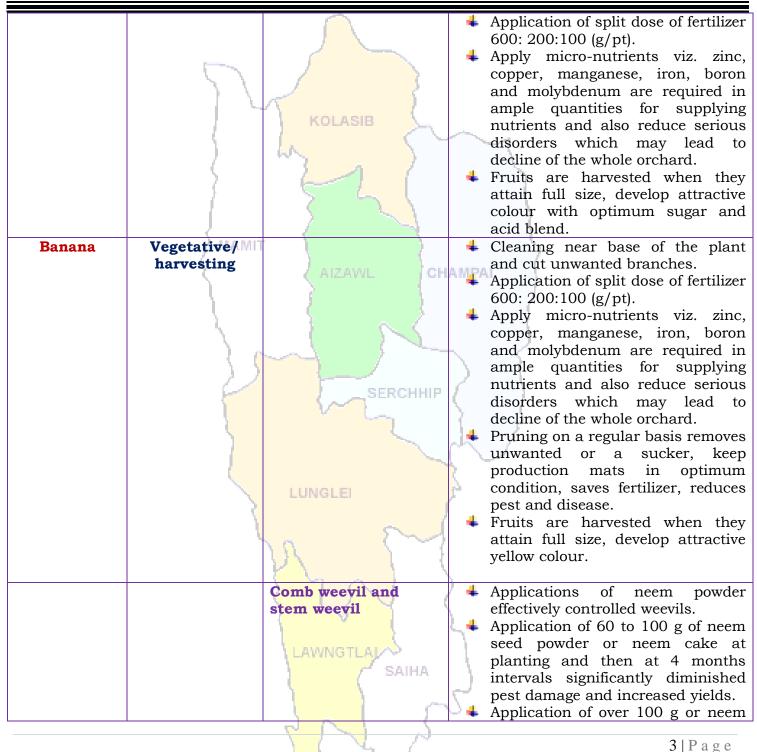




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			oil was phytotoxic (harmful t
			plants) and uneconomical.
Passion Fruit	Nursery stage		4 When two to three leaves develop
	5		seedling should be transplanted in
	1 \	× 1	polythene bags.
		KOLASIB	4 The seedlings are planted in fiel
			when they become 3-4 months old
		LA I	4 Mature 30-35 cm long stem with
	(113 1 1	nodes of pencil thickness shoul
			be planted in nurser
	1		beds/polythene bags havin
			suitable potting media.
	5		Apply well decompose FYM
	/ MAMIT		15kg/pit/year along wit
Dinconnlo	Diamating	AIZAWL	100.50.100 g NPK per pit.
Pineapple	Flowering stage		Apply flowering inducing chemica (Ethrel 10 PPM+2% urea+0.04%)
	stage		Sodium Carbonate) should b
			applied in the heart of the plant. It
	\		evening and only when plants hav
			at least 32 leaves.
	1		The flowering emergence will com
		SERCHHIP	out after 55-60 days after chemica
			spraying.
			Apply split doses of fertilizer @ 60
			50:60 g per plant.
			🖡 Remove all unwanted leaves
		LUNGLEI	branches and weed near to th
	>	New York 1 10 York New Decord	plant.
Colocasia	Vegetative	A	4 Remove unwanted plant near bas
	stage	$a \sim \gamma$	of the plant and cut dea
			branches.
			🗣 Earthing up soil at base of th
			plant along with split doses o
			fertilizer.
			4 Proper drainage is required to
			avoid water logging.
		/ SAIHA	Hulching with black polythene is
			found beneficial for both reducing
			the weed and increasing the yield.
		Corm borer	└ 🗍 Carbofuran 3G @1.5 kg a.i./ha
			4 P a g e



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			applied in root zone when egg
			laying ooze is observed at plant
			base.
Okra	Flowering stage	1. Clean cultivation or	4 Mulching (if dry spell is there)
) \	remove all	4 Give irrigation at regular interval
		🐴 unwanted plant	4 Provide banana shading to
		from plot.	transplanted seedling.
	1	2. Provide split doses	+ Provide split doses of fertilizer @
	/	of fertilizer.	30kg/ha.
	Ι · · · · ·		4 Shallow rooted inter-row
)		cultivation and hand weeding may
			be used to minimize weeds in the
			inter row zone.
	A MAMI		4 Black plastic mulch may be used
			to suppress weed growth The
	<u> </u>	AIZAWL CH	black plastic mulch also keeps the
			soil warm and encourages plant
		5	growth.
	\\	1. Aphid (Aphis	• Spray surf water solution to the
		gossypii)	plat
			• Spray any one of the insecticides
		ar normality	Imidacloprid 200 SL @ 0.25ml/lt of
		SERCHHIP	water (Sucking pest) or Dimethoate
			30 % EC 7ml/10lt of water.
		2. Blister beetle	Manual collection of insect and
			destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
		LUNGLEI	water.
	2	3. Flea beetle	• Shake plants to dislodge grubs,
		(Phylliodes balyi)	pupae and adults and destroy.
			• Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt or
			Dimethoate 30 % EC 7ml/10lt of
			water.
		4. Epilachna beetle.	• Collect damaged leaves with grubs
		(Epilachna	and egg masses and destroy them.
		viginctioctopancta	• Spray with methyl parathion 0.5%
		ta) / SAIHA	or dimethoate 0.3% is effective.
		5. Leafhopper	Spray any one of the insecticides
		(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of
		devastans)	water (Sucking pest) or Dimethoate
L	1		
			5 P a g e



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				30 % EC 7ml/10lt of water.
		✓ Bacterial Wilt	•	Fields should be kept clean and
		(Pseudomonas		effected plants are to be uprooted
		solanacearum)		and burnt.
			•	Spray Copper fungicides to control
		Δ		the disease (2% Bordeaux mixture.)
		KOLASIB		The disease is more prevalent in
	1			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
	/ MAMIT			Blitox 50 @ 5gm/ 15lt water.
French bean	Flowering stage	AIZAWL CH	AMP	Remove all unwanted leaves,
	<u> </u>			branches and weed near to the
) i i i i i i i i i i i i i i i i i i i			plant.
	2		•	Earthing up the soil for better
				aeration.
		$\sim $ $\sim $ $\sim $	\ •	Plant should be supported by
				bamboo or woods 20-25 days after
		SERCHHIP	1	sowing.
		Blister beetle	}•	Manual collection of insect and
				destroy it immediately.
			h٩,	Apply cypermethrin 2 gm/lt of
-				water.
Brinjal	Vegetative	LUNGLEI	} +	Remove unwanted plant near base
	stage	LONGLEI	r	of the plant and cut dead
		~ (branches.
	1		•	Pre emergence application of
				Basalin @0.5 ml/lit of water for
				reduce grass type weed.
		2 1 5 1 1	1 +	Mulching with black polythene film
				reduces weed growth, increases the crop growth.
			5.	Split dose of fertilizer application @
				50kg/ha urea.
Tomato	Vegetative	/ SAIHA		Remove unwanted plant near base
	stage		J	of the plant and cut dead
	5-		1	branches.
			ĭ .	Pre emergence application of
	1		· · ·	5 11
		<u> </u>		6 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



	7	KOLASIB 1. Aphid(Aphis gossypii)	 Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea. Spray surf water solution to the plat.
			• Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
		ta)	• Spray with methyl parathion 0.5% or dimethoate 0.3% is effective against flea beetle.
Rice	Transplanting stage	Kharif Rice SERCHHIP LUNGLEI	 Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on
			·
			7 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM



	5	\sum	4	seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased. Remove the tip of rice seedling
		K S		which reduces stem borer infestation.
Maize	Sowing stage	AIZAWL		Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2
	Ţ		Ş.	ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and turmeric	Land preparation	LUNGLEI	.	Remove unwanted plant near base of the plant and cut dead branches.
	1	AM		Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor
		mary.	Ĺ	(Dual) (a) 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) (a) 1-1.5 kg a.i. ha-1arge effective way for
			÷	control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
		Thrips	ି କ	Spray Roger or Monocrotophos (2.5
				8 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

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

Guwahati)



			ml/lt) for controlling thrips.
		Scales	🗍 Spray Quinalphos or
			Monocrotophos (2.5 ml/lt) for
		/ · · · · ·	controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or piglets.
		Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
	1	~~~ /	vaccines at 2 months and yearly
	7		interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and
		Disease (FMD)	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	/ MAMH		✤ Primary vaccination 6 month or
	1 - E	AIZAWL CH	AMPAabove
			 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth
			and R_2B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat

LUNGLEI

9 | P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

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

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		/ SAIHA	

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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)





District: Kolasib

Bulletin No: -526/2015/ Bulletin/English

Date of issue: 12th June, 2015

Period: 13 - 17 June, 2015

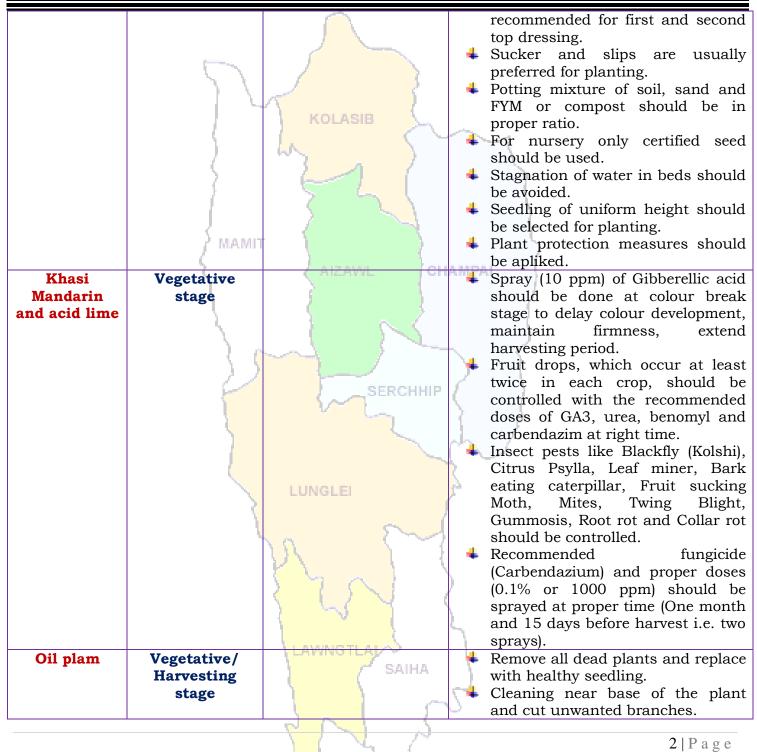
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Rainfall (mm)	152	58	38	12	8	
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Min Temp (oC)	22	21	21	22	22	
Cloud Coverage	Mainly cloud	y Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	99	99	99	98	99	
Min RH (%)	78	89	86	73	63	
Wind Speed (Km		4	4	2	4	
*Wind Direction	-	S-E	S-E	S-E	S-E	
		rth-Easterly- <mark>N-E</mark> , Eas				
		th-Westerly- S-W, We				
		1-31, 2015 (Percer				
Aizawl- 383.6	· · · · · · · · · · · · · · · · · · ·		Saiha- 109.52		ib - 352.38mm	
•	8mm)	(250.30mm)	(87.21	· · · · · · · · · · · · · · · · · · ·	(380.9mm)	
Lawngtlai	U		Mamit-449.48		hip-411.72mm	
321.51mr		(186.21mm)	(442.80)mm)	(25.9mm)	
(285.						
	mmary of the	Weather forec			015 To 17 th	
past tl	hree days	June, 2015.				
The temperat		There are chances				
maximum and	minimum were	day. The maximum and minimum temperatures for the next 5				
	and $18.4-20.6^{\circ}C$	days may range for 28-31°C and 21-22°C. Maximum relative				
	ense cloudy sky	humidity is expected in the range of 98-99% and minimum may				
	Wind direction is	from 63-89%. Wind direction would be southeasterly with the				
5	Maximum RH	wind speed of 4-6 km per hour. Dense cloudy sky will prevail				
	% & minimum of	during the next five days.				
	ll recorded for the					
past three days	is 111.50mm.		y cumulative ro			
Main Crop/	Stage	Cultural practic	-	ural / Horticu	-	
Animal		Pest/ Diseases	S]	husbandry adv	isories	
/Fisheries						
Khasi	Transplant				@ 500g/pit is	
Mandarin	stage				days before	
and acid lime		/ SAI			12 g each of N	
					and 4 g of	
				/plant.		
		JAL	📕 📕 12 g	Nitrogen and	Potash/plant is	
			19		1 Page	
			-		- 1	



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



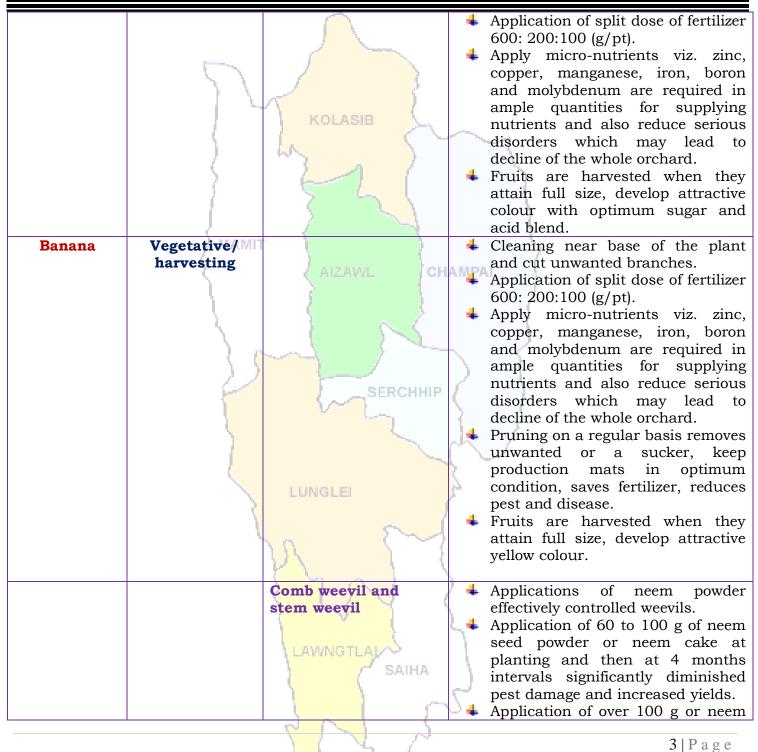




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				oil was phytotoxic (harmful to
				plants) and uneconomical.
Passion Fruit	Nursery stage		-	When two to three leaves develop,
	1	- / · · · · · · · · · · · · · · · · · ·		seedling should be transplanted in
) \	~ S		polythene bags.
		KOLASIB	-	The seedlings are planted in field
		KOLASIB	1	when they become 3-4 months old.
			- -	Mature 30-35 cm long stem with 3
	(nodes of pencil thickness should
	7			be planted in nursery
	1			beds/polythene bags having
	1			suitable potting media.
	<pre></pre>		-	Apply well decompose FYM @
	/ MAMIT			15kg/pit/year along with
D'		AIZAWL	AMP)	100.50.100 g NPK per pit.
Pineapple	Flowering		-	Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04%)
	stage			Sodium Carbonate) should be
				applied in the heart of the plant. In
				evening and only when plants have
			\mathbf{N}	at least 32 leaves.
	1		4	The flowering emergence will come
		SERCHHIP	(1	out after 55-60 days after chemical
			$\left \right\rangle$	spraying.
			4	Apply split doses of fertilizer @ 60:
			\sim	50:60 g per plant.
			2 🔸	Remove all unwanted leaves,
		LUNGLEI	\mathbf{r}	branches and weed near to the
	>			plant.
Colocasia	Vegetative		-	Remove unwanted plant near base
	stage			of the plant and cut dead
				branches.
			\ +	Earthing up soil at base of the
			1	plant along with split doses of
			\ <u>.</u>	fertilizer.
			5,*	Proper drainage is required to
		LAWNGTLAL		avoid water logging.
		/ SAIHA	1	Mulching with black polythene is
			1	found beneficial for both reducing the weed and increasing the yield.
		Corm borer	3-	Carbofuran 3G @1.5 kg a.i./ha
		Columbolier	-	Carboruran 50 @1.5 kg a.i./ na
		N. C		4 P a g e



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			applied in root zone when egg
			laying ooze is observed at plant
			base.
Okra	Flowering stage	1. Clean cultivation or	Mulching (if dry spell is there)
		remove all	4 Give irrigation at regular interval
		unwanted plant	4 Provide banana shading to
		from plot.	transplanted seedling.
		2. Provide split doses	Provide split doses of fertilizer @
)	of fertilizer.	30kg/ha.
		of fertilizer.	Shallow rooted inter-row
	1		
			cultivation and hand weeding may
			be used to minimize weeds in the
			inter row zone.
	/ MAMIT		4 Black plastic mulch may be used
	ι <u>ς</u>	AIZAWL CH	to suppress weed growth. The
	N	CALCATE	black plastic mulch also keeps the
		5	soil warm and encourages plant
		5	growth.
	\\	1. Aphid (Aphis	• Spray surf water solution to the
		gossypii)	plat
			• Spray any one of the insecticides
	1	0.550.000	Imidacloprid 200 SL @ 0.25ml/lt of
		SERCHHIP	water (Sucking pest) or Dimethoate
			30 % EC 7ml/10lt of water.
		2. Blister beetle	Manual collection of insect and
		2. Diister Deette	destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
		LUNGLEI	water.
		3. Flea beetle	• Shake plants to dislodge grubs,
		(Phylliodes balyi)	pupae and adults and destroy.
		10 10	• Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt or
		N M A I	Dimethoate 30 % EC 7ml/10lt of
			water.
		4. Epilachna beetle.	• Collect damaged leaves with grubs
		(Epilachna	and egg masses and destroy them.
		viginctioctopancta	• Spray with methyl parathion 0.5%
		ta) / SAIHA	or dimethoate 0.3% is effective.
		5. Leafhopper	-• Spray any one of the insecticides
		(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of
		devastans)	water (Sucking pest) or Dimethoate
L		ucoustuns	
			5 P a g e



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			30 % EC 7ml/10lt of water.
		✓ Bacterial Wilt	• Fields should be kept clean and
	· · · · ·	(Pseudomonas	effected plants are to be uprooted
		solanacearum)	and burnt.
			• Spray Copper fungicides to control
		KOLASIB	the disease (2% Bordeaux mixture.)
		NOLASIB	The disease is more prevalent in
			the presence of root knot
		13 A /	Nematodes, so control of these
	2		nematodes will suppress the
			disease spread.
			• Soil drenching (Streptocycline
	A MAMIT		sulphate 0.3 gm/lt of water) and
	/		Blitox 50 @ 5gm/ 15lt water.
French bean	Flowering stage	AIZAWL CH	
	l l		branches and weed near to the
		ι (<u></u> , ,	plant.
	5		• Earthing up the soil for better aeration.
)		 Plant should be supported by
	1 5		bamboo or woods 20-25 days after
		SERCHHIP	sowing.
	1	Blister beetle	Manual collection of insect and
			destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
			water.
Brinjal	Vegetative		↓ ↓ Remove unwanted plant near base
	stage	LUNGLEI	of the plant and cut dead
	1	~ (branches.
	L		+ Pre emergence application of
			Basalin @0.5 ml/lit of water for
			reduce grass type weed.
			 Mulching with black polythene film reduces weed growth, increases the
			crop growth.
			Split dose of fertilizer application @
		LAWNGTLAL	50kg/ha urea.
Tomato	Vegetative	/ SAIHA	4 Remove unwanted plant near base
	stage		of the plant and cut dead
	_		branches.
			🗕 🖶 Pre emergence application of
		N N N	6 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM



7	KOLASIB	 Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
	1. Aphid(Aphis gossypii)	 Spray surf water solution to the plat. Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
	2. Epilachna beetle. (Epilachna viginctioctopancta ta)	• Spray with methyl parathion 0.5% AMPA or dimethoate 0.3% is effective against flea beetle.
Rice Transplanting stage	Kharif Rice SERCHHIP LUNGLEI LAWINGTLAI SAIHA	 Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on
		7 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



	5		+	seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Sowing stage	AIZAWL	AMP	Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and turmeric	Land preparation	LUNGLEI		Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture. Spray Roger or Monocrotophos (2.5
			- +	8 P a g e



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			ml/lt) for controlling thrips.
		Scales	👃 Spray Quinalphos or
			Monocrotophos (2.5 ml/lt) for
			controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or piglets.
		Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
	(vaccines at 2 months and yearly
	7		interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and
		Disease (FMD)	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	/ MAMIT		Primary vaccination 6 month or
	1	AIZAWL CH	AMPAabove
			 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth
	2		and R_2B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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Guwahati)



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





District: Lawngtlai

Period: 13 - 17 June, 2015

Bulletin No: -526/2015/ Bulletin/English

Date of issue: 12th June, 2015

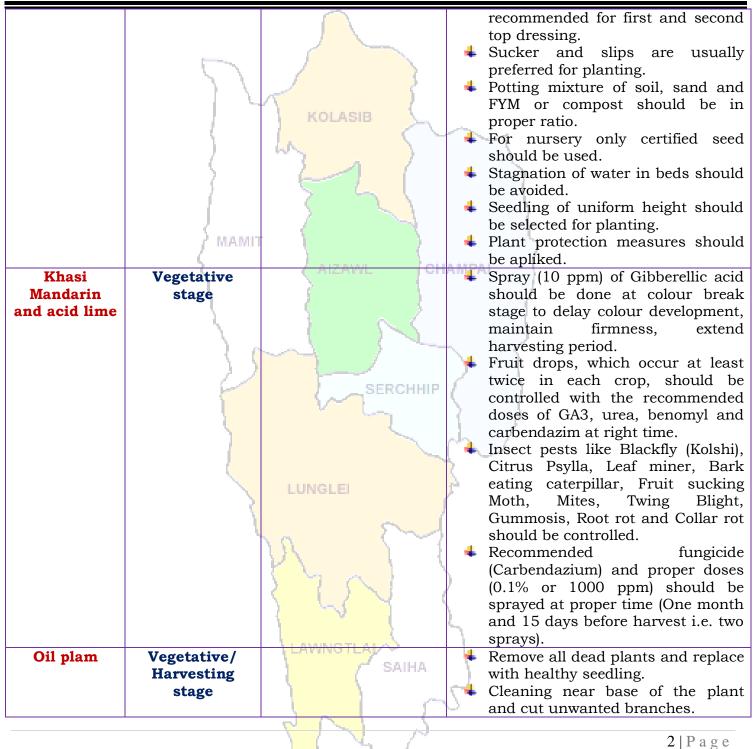
				1000000		
Parameters	13.06.2015		15.06.2015	16.06.2015	17.06.2015	
Rainfall (mm)	4	3	8	0	4	
Max Temp (oC)	31	30	31	32	32	
Min Temp (oC)	22	21	22	21	22	
Cloud Coverage	Mainly cloud	y Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	93	92	95	92	94	
Min RH (%)	62	61	61	69	83	
Wind Speed (Km	. pH) 8	7	7	9	8	
*Wind Direction		S-E	E	E	E	
	Northerly- N, No	rth-Easterly- N-E, Ea	sterly- E, South-l	Easterly- <mark>S-E</mark> ,		
	Southerly- <mark>S</mark> , Sou	th-Westerly- <mark>S-W</mark> , We	esterly-W, North-	westerly- N-W.		
STATUS OF PR	EMONSOON- May	1-31, 2015 (Perce	nt of deviation	from normal ir	n parenthesis)	
Aizawl- 383.6	8mm Champha	i- 239.49mm	Saiha- 109.52	mm Kolas	ib - 352.38mm	
(341.	8mm)	(250.30mm)	(87.2)	nm)	(380.9mm)	
Lawngtlai	- Lunglei	-344.00mm	Mamit-449.48	mm Serch	hip-411.72mm	
321.51mm	n	(186.21mm)	(442.80)mm)	(25.9mm)	
(285.5	5 mm)		•	•		
Weather su	mmary of the	Weather fored	cast valid from	13 th June, 20	015 To 17 th	
	nree days	June, 2015.				
		There are chances day. The maximum days may range humidity is expect from 61-83%. Win wind speed of 7-9 during the next five <i>Week</i>	m and minimum for 30-32°C and ted in the range and direction wor km per hour.	n temperatures d 21-22ºC. Ma of 92-95% and uld be southea Dense cloudy	for the next 5 ximum relative minimum may sterly with the sky will prevail	
Main Crop/	Stage	Cultural practic	es/ Agricult	tural / Horticu	ltural/ animal	
Animal	Ŭ	Pest/ Disease		husbandry adv	-	
/Fisheries						
Khasi	Transplant		🔰 🖊 Well	rotten FYM	@ 500g/pit is	
Mandarin	stage				days before	
and acid lime	5	/ SA			12 g each of N	
					and 4 g of	
				/plant.	6	
					Potash/plant is	
L			<u></u>	,	, <u>-</u>	
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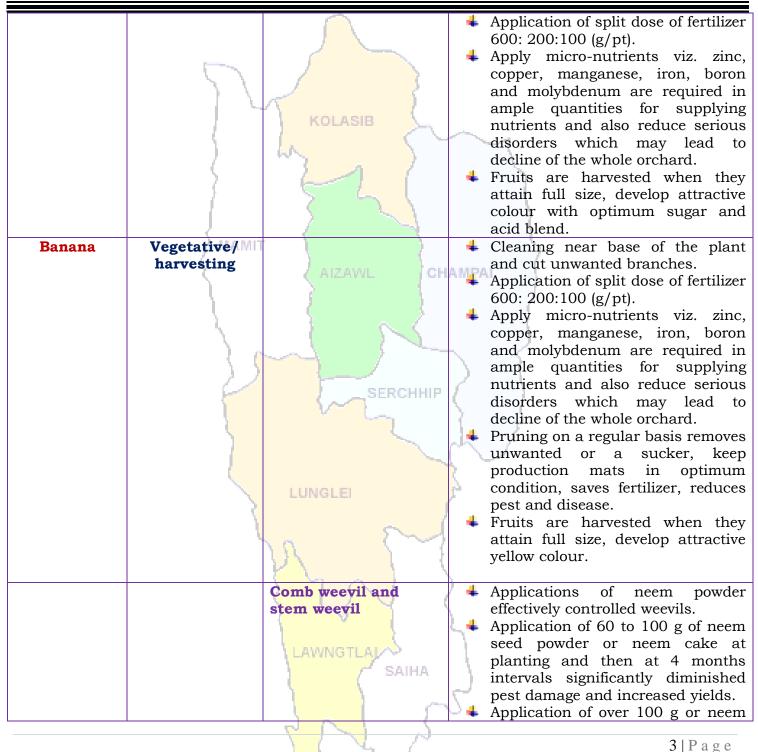




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1				
				oil was phytotoxic (harmful to
				plants) and uneconomical.
Passion Fruit	Nursery stage			When two to three leaves develop,
	\ \			seedling should be transplanted in
		5		polythene bags.
		KOLASIB		The seedlings are planted in field
	1	KOLASIB		when they become 3-4 months old.
	1			Mature 30-35 cm long stem with 3
	(113 A /		nodes of pencil thickness should
	7			be planted in nursery
	1			beds/polythene bags having
	(suitable potting media.
	<pre></pre>		+	Apply well decompose FYM @
	/ MAMIT			15kg/pit/year along with
		AIZAWI	AMPA	100.50.100 g NPK per pit.
Pineapple	Flowering		+	Apply flowering inducing chemical
	stage			(Ethrel 10 PPM+2% urea+0.04%
	2	$ \rightarrow $		Sodium Carbonate) should be
				applied in the heart of the plant. In
	1	$\sim \rightarrow$ \rightarrow \sim	10 March 10	evening and only when plants have
))			at least 32 leaves.
	5-1-1	SERCHHIP		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,
			1. Contract 1. Con	Remove all unwanted leaves, branches and weed near to the
		LUNGLEI	A	
Colocasia	Vegetative			plant. Remove unwanted plant near base
COIOCASIA	stage	- ~		of the plant and cut dead
	stage			branches.
				Earthing up soil at base of the
				plant along with split doses of
				fertilizer.
			1.	Proper drainage is required to
				avoid water logging.
		LAWNGTLAL		Mulching with black polythene is
		SAIHA		found beneficial for both reducing
				the weed and increasing the yield.
		Corm borer		Carbofuran 3G @1.5 kg a.i./ha
			-	
				4 P a g e



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			applied in root zone when egg
			laying ooze is observed at plant base.
Okra	Flowering stage	1. Clean cultivation or	 Mulching (if dry spell is there)
		_remove all	4 Give irrigation at regular interval
		unwanted plant	4 Provide banana shading to
		from plot.	transplanted seedling.
)	2. Provide split doses	Provide split doses of fertilizer @
		of fertilizer.	30kg/ha. Shallow rooted inter-row
	(cultivation and hand weeding may
			be used to minimize weeds in the
			inter row zone.
	A MAMIT		↓ Black plastic mulch may be used
	ς	AIZAWL	to suppress weed growth. The
			black plastic mulch also keeps the
	1		soil warm and encourages plant
		1. Aphid (Aphis	growth.Spray surf water solution to the
		gossypii)	plat
	1 1 1		• Spray any one of the insecticides
		SERCHHIP	Imidacloprid 200 SL @ 0.25ml/lt of
	1		water (Sucking pest) or Dimethoate
			30 % EC 7ml/10lt of water.
	}	2. Blister beetle	• Manual collection of insect and destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
		LUNGLE	water.
	2	3. Flea beetle	• Shake plants to dislodge grubs,
		(Phylliodes balyi)	pupae and adults and destroy.
		NA ST	• Spray any one of the insecticides
			Imidacloprid 200 SL @ 0.25ml/lt or
		2701	Dimethoate 30 % EC 7ml/10lt of water.
		4. Epilachna beetle.	Collect damaged leaves with grubs
		(Epilachna	and egg masses and destroy them.
		viginctioctopancta	• Spray with methyl parathion 0.5%
		ta) / saiha	or dimethoate 0.3% is effective.
		5. <mark>Leafhopp</mark> er	Spray any one of the insecticides
		(Empoasca	Imidacloprid 200 SL @ 0.25ml/lt of
		devastans)	water (Sucking pest) or Dimethoate
			5 P a g e



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			30 % EC 7ml/10lt of water.
		✓ Bacterial Wilt	• Fields should be kept clean and
		(P <mark>seudomonas</mark>	effected plants are to be uprooted
		solanacearum)	and burnt.
		~ {	Spray Copper fungicides to control
		A KOLAGID	the disease (2% Bordeaux mixture.)
		KOLASIB	The disease is more prevalent in
	1		the presence of root knot
			Nematodes, so control of these
	\rangle		nematodes will suppress the
	1		disease spread.
			Soil drenching (Streptocycline
			sulphate 0.3 gm/lt of water) and
	/ MAMIT		Blitox 50 @ 5gm/ 15lt water.
French bean	Flowering stage	AIZAWL CH	Remove all unwanted leaves,
) i i i i i i i i i i i i i i i i i i i		branches and weed near to the
			plant.
	2		• Earthing up the soil for better
			aeration.
		<u>∽</u>	Plant should be supported by
))		bamboo or woods 20-25 days after
		SERCHHIP	sowing.
		Blister beetle	• Manual collection of insect and
			destroy it immediately.
			• Apply cypermethrin 2 gm/lt of
			water.
Brinjal	Vegetative	LUNGLEI	↓ ↓ Remove unwanted plant near base
	stage		of the plant and cut dead
		~ (branches.
	1		Pre emergence application of Basalin @0.5 ml/lit of water for
			reduce grass type weed.
			Mulching with black polythene film
			reduces weed growth, increases the
			crop growth.
			Split dose of fertilizer application (a)
			50kg/ha urea.
Tomato	Vegetative	SAIHA	 Remove unwanted plant near base
	stage		of the plant and cut dead
			branches.
		1261	🛛 🖶 Pre emergence application of
	•		6 P a g e
			Uliage



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 Basalin @0.5 ml/lit of water freduce grass type weed. Mulching with black polythene firreduces weed growth, increases the crop growth. Split dose of fertilizer application 50kg/ha urea. Spray surf water solution to the plat. Spray any one of the insecticid Imidacloprid 200 SL @ 0.25ml/lthe water (Sucking pest) or Dimethora 30 % EC 7ml/10lt of water. Spray with methyl parathion 0.5
Spray any one of the insecticid Imidacloprid 200 SL @ 0.25ml/lt water (Sucking pest) or Dimethor 30 % EC 7ml/10lt of water.
(<i>Epilachna</i> <i>viginctioctopancta</i> <i>ta</i>) - Spray with hethyl paratholi 0.3 or dimethoate 0.3% is effective against flea beetle.
Rice Transplanting stage Kharif Rice Land preparation is done ploughing, harrowing, and levelli the field to make it suitable for crop establishment. Ploughing should be done 3 weeks prior to sowing. Ploughing, harrowing the field should be done twice, with o week gap between the two. Fin harrowing should be done after week of ploughing. The secon harrowing should be done acro the first harrowing. Under good management an adequate nitrogen levels, t optimum spacing for rice varietis should be around 20x15 cms bo for kharif and rabi crops. HAWNGTLAT HAWNGTLAT SAIHA
7 Page



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	5		 seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Sowing stage	AIZAWL	 Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and turmeric	Land preparation		 Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
		Thrips	→ ↓ Spray Roger or Monocrotophos (2.5



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			ml/lt) for controlling thrips.
		Scales	👃 Spray Quinalphos or
			Monocrotophos (2.5 ml/lt) for
		``	controlling scales.
Pig	All stages	Porcine Reproduct ive	1. Culling of positive pigs or piglets.
	-	Respiratory	
		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
			vaccines at 2 months and yearly
	7		interval/6 month interval
Cattle	All age group	Foot and Mouth	• FMD vaccine at 16 week and
		Disease (FMD)	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
	/ MAMI		✤ Primary vaccination 6 month or
	1 5	AIZAWL CH	AMPAabove
			 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth
			and R_2B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat

LUNGLEI

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