GRAMIN KRISHI MAUSAM SEWA

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: 21 May - 25 May, 2016**

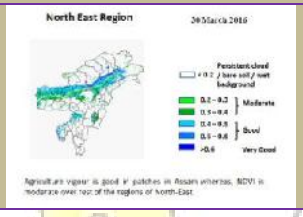
Bulletin No: - 603/2016/ Bulletin/English **Date of issue: 20th May, 2016**

Parameters	21.05.2016	22.05.2016	23.05.2016	24.05.2016	25.05.2016
Rainfall (mm)	110	90	10	8	5
Max Temp (ºC)	25	25	25	27	29
Min Temp (ºC)	19	19	19	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear
Max RH (%)	99	99	99	96	98
Min RH (%)	91	94	75	63	47
Wind Speed (KmpH)	4	4	2	2	4
***Wind Direction**	S-E	E	S-W	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 MONSOON- April 1-30, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 245.10 mm (185.67mm)	Champhai- 103.20mm (119.49mm)	Saiha- 33.0 mm (109.81mm)	Kolasib- 293.90 mm (213.61mm)
Lawngtlai-45.40 mm (101.58mm)	Lunglei-73.06 mm (117.69mm)	Mamit-346.74 mm (236.28mm)	Serchhip-76.5mm (110.96mm)

Weather summary of the past three days	Weather forecast valid from 21th May, 2016 To 25th April, 2016.
The temperature range for maximum and minimum were 21.3-26.8ºC and 18.3-20.5ºC respectively. Mainly cloudy sky was observed. Wind direction is southeasterly to easterly. Maximum RH observed 92-100% & minimum of 84-93%. Rainfall recorded for the past three days is **158.80mm. (Source-mosdac.gov.in)**	There are chances of light to moderate and very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25-29ºC and 18-19ºC. Maximum relative humidity is expected in the range of 96-99% and minimum may from 47-94%. Wind direction would be southeasterly to easterly and southwesterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **223.0 mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Nursery stage**		**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. 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.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. 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 optimum sugar and acid blend.
Banana	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✚ 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. ✚ 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 they become 3-4 months old. ✚ Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart 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.
Colocasia	**Sowing stage**		✚ 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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
Cucurbitaceous crop	**Fruiting stage**		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.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Cowpea	**Sowing stage**		Plough the field with the help of spade. Sow 2 seed 15 X 20 cm spacing. Before sowing seed provide one or two irrigation.
Brinjal	**Transplanting stage**		Equal quantity of sand and well decomposed FYM are mixed with soil and raised beds of 75-100 cm width and convenient length are prepared and these beds are treated with a solution of 100g of 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.
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. Seed treated with Bavistin 50 WP @ 0.1%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			(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 20-30 cm wide channel for irrigation, drainage and easy movement, it takes care of the seedlings without trampling them. ➢ Treated seed should be evenly broadcasted in each bed after applying manure.
Maize	**Sowing stage**		✚ Two to three plough are necessary to get the soil well pulverized and weed free. ✚ Seed is being placed in furrows. ✚ Seed should be treated with Thiram @4 g/kg seed. ✚ Use optimum seed rate (20-25 kg/ha) for desire plant population. ✚ Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and 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 turmeric	**Land preparation**		✚ Remove all unwanted leaves, branches and weed near to the plant. ✚ Earthing up the soil for better aeration. ✚ 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 ml/lt) for controlling scales.
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth**	• FMD vaccine at 16 week and

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Disease (FMD)	repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Lawngtlai **Period:** 21 May - 25 May, 2016

Bulletin No: - 603/2016/ Bulletin/English **Date of issue:** 20th May, 2016

Parameters	21.05.2016	22.05.2016	23.05.2016	24.05.2016	25.05.2016
Rainfall (mm)	85	50	55	15	4
Max Temp (ºC)	26	26	26	26	30
Min Temp (ºC)	18	18	18	20	20
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	97	97	98	94	95
Min RH (%)	95	85	95	80	50
Wind Speed (KmpH)	7	6	6	3	5
*Wind Direction	S-E	E	S	E	E

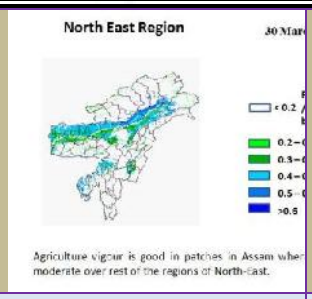
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- April 1-30, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 245.10 mm (185.67mm)	Champhai- 103.20mm (119.49mm)	Saiha- 33.0 mm (109.81mm)	Kolasib- 293.90 mm (213.61mm)
Lawngtlai-45.40 mm (101.58mm)	Lunglei-73.06 mm (117.69mm)	Mamit-346.74 mm (236.28mm)	Serchhip-76.5mm (110.96mm)

Weather summary of the past three days	Weather forecast valid from 21th May, 2016 To 25th April, 2016.
	There are chances of light to moderate and heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-30ºC and 18-20ºC. Maximum relative humidity is expected in the range of 94-98% and minimum may from 50-97%. Wind direction would be southeasterly to easterly and southerly with the wind speed of 3-7 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **209.0 mm**

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

NDVI for Mizoram		NDVI of soil moisture for Mizoram is moderate wet condition.

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Nursery stage**		✚ **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. ✚ 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.
Oil plam	**Vegetative stage**		✚ Cleaning near base of the plant and cut unwanted branches. ✚ 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.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ 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. ✦ 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 they become 3-4 months old. ✦ Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	**Flowering stage**		✦ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart 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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

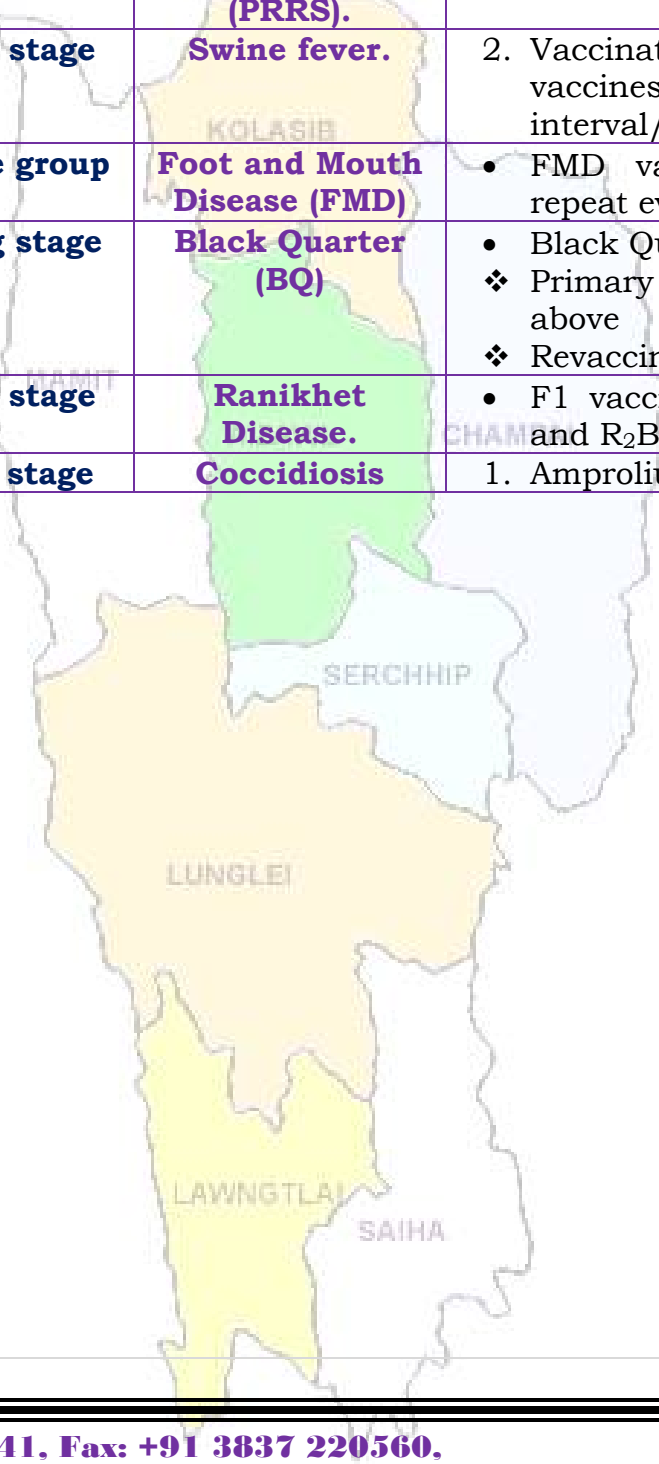
			per plant. Remove all unwanted leaves, branches and weed near to the plant.
Colocasia	**Sowing stage**		Planting is done well prepared land or pits filled up with FYM (12-15) t/ha Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
Cucurbitaceous crop	**Fruiting stage**		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.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Cowpea	**Sowing stage**		Plough the field with the help of spade. Sow 2 seed 15 X 20 cm spacing. Before sowing seed provide one or two irrigation.
Brinjal	**Transplanting stage**		Equal quantity of sand and well decomposed FYM are mixed with soil and raised beds of 75-100 cm width and convenient length are prepared and these beds are treated with a solution of 100g of blue copper dissolved in 40 litres of water or formaldehyde.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✦ The seeds can be sown in lines drawn at a spacing of 5 cm across the beds and cover with top soil.
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. ✦ 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 length in length and 1.25 m in width with 20-30 cm wide channel for irrigation, drainage and easy movement, it takes care of the seedlings without trampling them. ➢ Treated seed should be evenly broadcasted in each bed after applying manure.
Maize	**Sowing stage**		✦ Two to three plough are necessary to get the soil well pulverized and weed free. ✦ Seed is being placed in furrows. ✦ Seed should be treated with Thiram @4 g/kg seed. ✦ Use optimum seed rate (20-25 kg/ha) for desire plant population. ✦ Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and 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 turmeric	**Land preparation**		✦ Remove all unwanted leaves, branches and weed near to the plant. ✦ Earthing up the soil for better aeration. ✦ 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 ml/lt) for controlling scales.
Pig	**All stages**	**Porcine Reproductive**	1. Culling of positive pigs or piglets.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Respiratory Syndrome (PRRS).	
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat



Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

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: 21 May - 25 May, 2016**

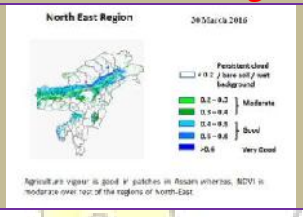
Bulletin No: - 603/2016/ Bulletin/English **Date of issue: 20th May, 2016**

Parameters	21.05.2016	22.05.2016	23.05.2016	24.05.2016	25.05.2016
Rainfall (mm)	90	50	25	20	7
Max Temp (ºC)	26	26	26	29	32
Min Temp (ºC)	18	18	20	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Partially clear
Max RH (%)	99	99	99	98	98
Min RH (%)	98	96	97	85	47
Wind Speed (KmpH)	5	4	3	2	3
***Wind Direction**	S-E	N-E	S-W	E	E

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

STATUS OF MONSOON- April 1-30, 2016 (*Percent of deviation from normal in parenthesis*)

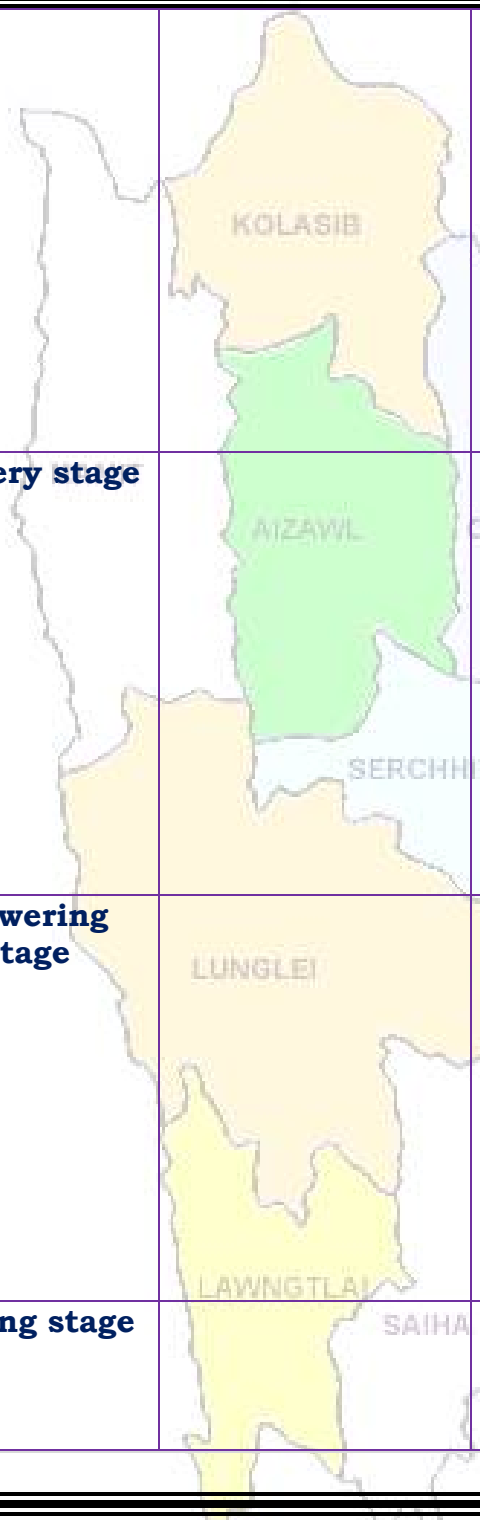
Aizawl- 245.10 mm (185.67mm)	Champhai- 103.20mm (119.49mm)	Saiha- 33.0 mm (109.81mm)	Kolasib- 293.90 mm (213.61mm)
Lawngtlai-45.40 mm (101.58mm)	Lunglei-73.06 mm (117.69mm)	Mamit-346.74 mm (236.28mm)	Serchhip-76.5mm (110.96mm)

Weather summary of the past three days	Weather forecast valid from 21th May, 2016 To 25th April, 2016.
The temperature range for maximum and minimum were 23.1-28.4ºC and 18.5-19.8ºC respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 99-95% & minimum of 48-82%. Rainfall recorded for the past three days is **012.80mm. (Source-NICRA, AWS Network)**	There are chances of light to moderate and very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-32ºC and 18-20ºC. Maximum relative humidity is expected in the range of 98-99% and minimum may from 47-98%. Wind direction would be southeasterly to northeasterly to southeasterly and easterly with the wind speed of 2-5 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **192.0 mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Nursery stage**		✦ **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. ✦ 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.
Oil plam	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ 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 optimum sugar and acid blend.
Banana	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✚ 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. ✚ 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 they become 3-4 months old. ✚ Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart 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.
Colocasia	**Sowing stage**		✚ 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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
Cucurbitaceous crop	**Fruiting stage**		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.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Cowpea	**Sowing stage**		Plough the field with the help of spade. Sow 2 seed 15 X 20 cm spacing. Before sowing seed provide one or two irrigation.
Brinjal	**Transplanting stage**		Equal quantity of sand and well decomposed FYM are mixed with soil and raised beds of 75-100 cm width and convenient length are prepared and these beds are treated with a solution of 100g of 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.
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. Seed treated with Bavistin 50 WP @ 0.1%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			(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 20-30 cm wide channel for irrigation, drainage and easy movement, it takes care of the seedlings without trampling them. ➢ Treated seed should be evenly broadcasted in each bed after applying manure.
Maize	**Sowing stage**		✚ Two to three plough are necessary to get the soil well pulverized and weed free. ✚ Seed is being placed in furrows. ✚ Seed should be treated with Thiram @4 g/kg seed. ✚ Use optimum seed rate (20-25 kg/ha) for desire plant population. ✚ Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and 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 turmeric	**Land preparation**		✚ Remove all unwanted leaves, branches and weed near to the plant. ✚ Earthing up the soil for better aeration. ✚ 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 ml/lt) for controlling scales.
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth**	• FMD vaccine at 16 week and

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Disease (FMD)	repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Mamit **Period: 21 May - 25 May, 2016**

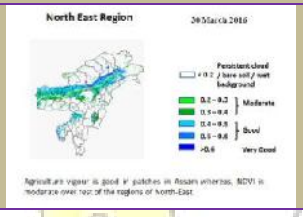
Bulletin No: - 603/2016/ Bulletin/English **Date of issue: 20th May, 2016**

Parameters	21.05.2016	22.05.2016	23.05.2016	24.05.2016	25.05.2016
Rainfall (mm)	100	80	20	12	10
Max Temp (ºC)	26	26	26	28	30
Min Temp (ºC)	21	21	21	20	22
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	99	99	99	94	98
Min RH (%)	96	96	85	64	46
Wind Speed (KmpH)	4	4	2	2	4
***Wind Direction**	S-E	N-E	S	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 MONSOON- April 1-30, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 245.10 mm (185.67mm)	Champhai- 103.20mm (119.49mm)	Saiha- 33.0 mm (109.81mm)	Kolasib- 293.90 mm (213.61mm)
Lawngtlai-45.40 mm (101.58mm)	Lunglei-73.06 mm (117.69mm)	Mamit-346.74 mm (236.28mm)	Serchhip-76.5mm (110.96mm)

Weather summary of the past three days	Weather forecast valid from 21th May, 2016 To 25th April, 2016.
The temperature range for maximum and minimum were 25.3-27.8ºC and 18.1-20.3ºC respectively. Mainly cloudy sky was observed. Wind direction is southeasterly to easterly. Maximum RH observed 97-100% & minimum of 49-84%. Rainfall recorded for the past three days is **018.80mm. (Source-mosdac.gov.in)**	There are chances of moderate to very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-30ºC and 20-22ºC. Maximum relative humidity is expected in the range of 94-99% and minimum may from 46-98%. Wind direction would be southeasterly to northeasterly to southerly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **222.0 mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Nursery stage**		✦ **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. ✦ 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.
Oil plam	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ 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 optimum sugar and acid blend.
Banana	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✚ 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. ✚ 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 they become 3-4 months old. ✚ Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart 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.
Colocasia	**Sowing stage**		✚ 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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
Cucurbitaceous crop	**Fruiting stage**		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.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Cowpea	**Sowing stage**		Plough the field with the help of spade. Sow 2 seed 15 X 20 cm spacing. Before sowing seed provide one or two irrigation.
Brinjal	**Transplanting stage**		Equal quantity of sand and well decomposed FYM are mixed with soil and raised beds of 75-100 cm width and convenient length are prepared and these beds are treated with a solution of 100g of 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.
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. Seed treated with Bavistin 50 WP @ 0.1%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			(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 20-30 cm wide channel for irrigation, drainage and easy movement, it takes care of the seedlings without trampling them. ➢ Treated seed should be evenly broadcasted in each bed after applying manure.
Maize	**Sowing stage**		✚ Two to three plough are necessary to get the soil well pulverized and weed free. ✚ Seed is being placed in furrows. ✚ Seed should be treated with Thiram @4 g/kg seed. ✚ Use optimum seed rate (20-25 kg/ha) for desire plant population. ✚ Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and 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 turmeric	**Land preparation**		✚ Remove all unwanted leaves, branches and weed near to the plant. ✚ Earthing up the soil for better aeration. ✚ 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 ml/lt) for controlling scales.
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth**	• FMD vaccine at 16 week and

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Disease (FMD)	repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Saiha **Period: 21 May - 25 May, 2016**

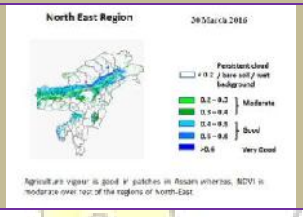
Bulletin No: - 603/2016/ Bulletin/English **Date of issue: 20th May, 2016**

Parameters	21.05.2016	22.05.2016	23.05.2016	24.05.2016	25.05.2016
Rainfall (mm)	50	40	30	10	5
Max Temp (ºC)	26	26	26	30	30
Min Temp (ºC)	20	20	20	21	22
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	99	95	95
Min RH (%)	96	85	97	87	49
Wind Speed (KmpH)	4	4	7	2	4
***Wind Direction**	E	E	S	E	E

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

STATUS OF MONSOON- April 1-30, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 245.10 mm (185.67mm)	**Champhai- 103.20mm (119.49mm)**	**Saiha- 33.0 mm (109.81mm)**	**Kolasib- 293.90 mm (213.61mm)**
Lawngtlai-45.40 mm (101.58mm)	**Lunglei-73.06 mm (117.69mm)**	**Mamit-346.74 mm (236.28mm)**	**Serchhip-76.5mm (110.96mm)**

Weather summary of the past three days	Weather forecast valid from 21st May, 2016 To 25th April, 2016.
The temperature range for maximum and minimum were 24.6-25.1ºC and 16.3-18.3ºC respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 94-99% & minimum of 50-85%. Rainfall recorded for the past three days is **28.30mm. (Source-mosdac.gov.in)**	There are chances of light to heavy and very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-30ºC and 20-22ºC. Maximum relative humidity is expected in the range of 95-99% and minimum may from 49-97%. Wind direction would be easterly to southerly with the wind speed of 2-7 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **135.0 mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Nursery stage**		**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. 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.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. 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 optimum sugar and acid blend.
Banana	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✚ 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. ✚ 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 they become 3-4 months old. ✚ Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart 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.
Colocasia	**Sowing stage**		✚ 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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
Cucurbitaceous crop	**Fruiting stage**		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.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Cowpea	**Sowing stage**		Plough the field with the help of spade. Sow 2 seed 15 X 20 cm spacing. Before sowing seed provide one or two irrigation.
Brinjal	**Transplanting stage**		Equal quantity of sand and well decomposed FYM are mixed with soil and raised beds of 75-100 cm width and convenient length are prepared and these beds are treated with a solution of 100g of 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.
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. Seed treated with Bavistin 50 WP @ 0.1%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			(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 20-30 cm wide channel for irrigation, drainage and easy movement, it takes care of the seedlings without trampling them. ➢ Treated seed should be evenly broadcasted in each bed after applying manure.
Maize	**Sowing stage**		✚ Two to three plough are necessary to get the soil well pulverized and weed free. ✚ Seed is being placed in furrows. ✚ Seed should be treated with Thiram @4 g/kg seed. ✚ Use optimum seed rate (20-25 kg/ha) for desire plant population. ✚ Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and 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 turmeric	**Land preparation**		✚ Remove all unwanted leaves, branches and weed near to the plant. ✚ Earthing up the soil for better aeration. ✚ 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 ml/lt) for controlling scales.
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth**	• FMD vaccine at 16 week and

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Disease (FMD)	repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Serchhip **Period:** 18 May - 22 May, 2016

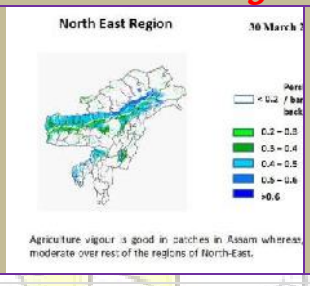
Bulletin No: - 602/2016/ Bulletin/English **Date of issue:** 17th May, 2016

Parameters	18.05.2016	19.05.2016	20.05.2016	21.05.2016	22.05.2016
Rainfall (mm)	75	45	35	12	10
Max Temp (ºC)	27	27	27	27	30
Min Temp (ºC)	19	19	20	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Partially clear
Max RH (%)	99	99	100	100	98
Min RH (%)	98	97	95	91	47
Wind Speed (KmpH)	3	4	3	2	3
*Wind Direction	S-E	E	W	E	E

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

STATUS OF MONSOON- April 1-30, 2016 (*Percent of deviation from normal in parenthesis*)

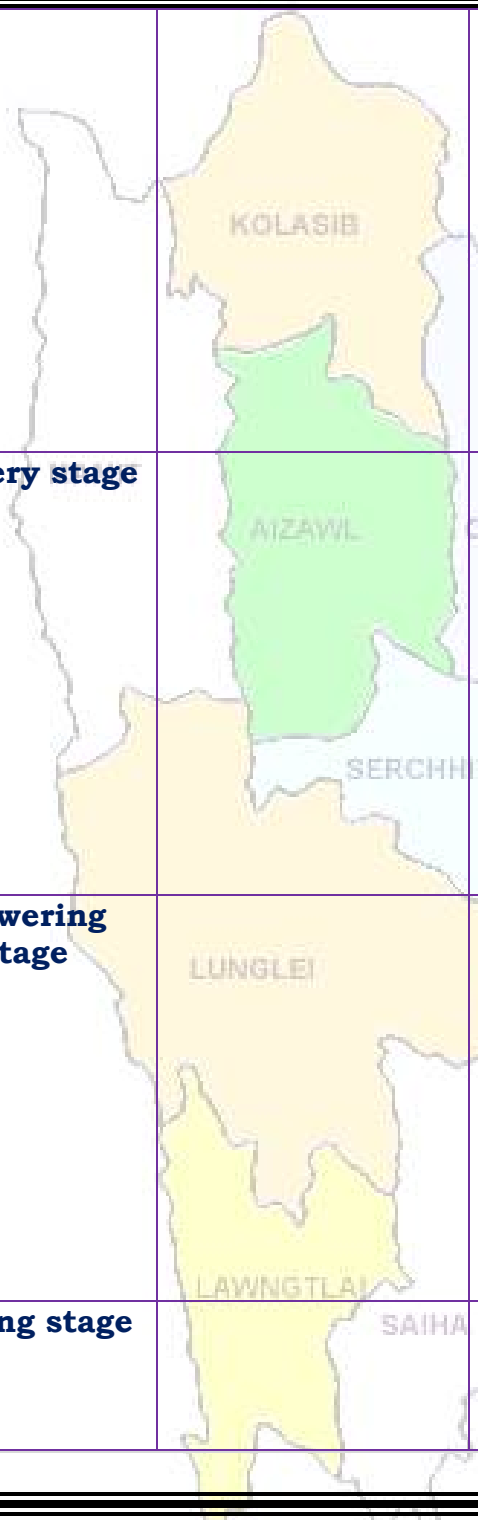
Aizawl- 245.10 mm (185.67mm)	Champhai- 103.20mm (119.49mm)	Saiha- 33.0 mm (109.81mm)	Kolasib- 293.90 mm (213.61mm)
Lawngtlai-45.40 mm (101.58mm)	Lunglei-73.06 mm (117.69mm)	Mamit-346.74 mm (236.28mm)	Serchhip-76.5mm (110.96mm)

Weather summary of the past three days	Weather forecast valid from 18th May, 2016 To 22nd April, 2016.
	There are chances of light to moderate and heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-30ºC and 19-20ºC. Maximum relative humidity is expected in the range of 98-100% and minimum may from 47-98%. Wind direction would be southeasterly to westerly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **177.0 mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Nursery stage**		**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. 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.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. 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 optimum sugar and acid blend.
Banana	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✚ 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. ✚ 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 they become 3-4 months old. ✚ Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart 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.
Colocasia	**Sowing stage**		✚ 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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
Cucurbitaceous crop	**Fruiting stage**		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.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Cowpea	**Sowing stage**		Plough the field with the help of spade. Sow 2 seed 15 X 20 cm spacing. Before sowing seed provide one or two irrigation.
Brinjal	**Transplanting stage**		Equal quantity of sand and well decomposed FYM are mixed with soil and raised beds of 75-100 cm width and convenient length are prepared and these beds are treated with a solution of 100g of 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.
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. Seed treated with Bavistin 50 WP @ 0.1%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			(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 20-30 cm wide channel for irrigation, drainage and easy movement, it takes care of the seedlings without trampling them. ➢ Treated seed should be evenly broadcasted in each bed after applying manure.
Maize	**Sowing stage**		✚ Two to three plough are necessary to get the soil well pulverized and weed free. ✚ Seed is being placed in furrows. ✚ Seed should be treated with Thiram @4 g/kg seed. ✚ Use optimum seed rate (20-25 kg/ha) for desire plant population. ✚ Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and 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 turmeric	**Land preparation**		✚ Remove all unwanted leaves, branches and weed near to the plant. ✚ Earthing up the soil for better aeration. ✚ 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 ml/lt) for controlling scales.
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth**	• FMD vaccine at 16 week and

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Disease (FMD)	repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Aizawl **Period: 21 May - 25 May, 2016**

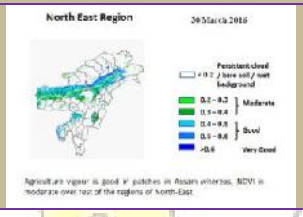
Bulletin No: - 603/2016/ Bulletin/English **Date of issue: 20th May, 2016**

Parameters	21.05.2016	22.05.2016	23.05.2016	24.05.2016	25.05.2016
Rainfall (mm)	95	85	30	12	10
Max Temp (ºC)	30	30	30	29	29
Min Temp (ºC)	20	20	20	20	20
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly clear	Partially clear
Max RH (%)	99	99	99	97	98
Min RH (%)	96	95	81	68	47
Wind Speed (KmpH)	4	4	2	2	4
***Wind Direction**	S-E	E	S-W	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 MONSOON- April 1-30, 2016 (*Percent of deviation from normal in parenthesis*)

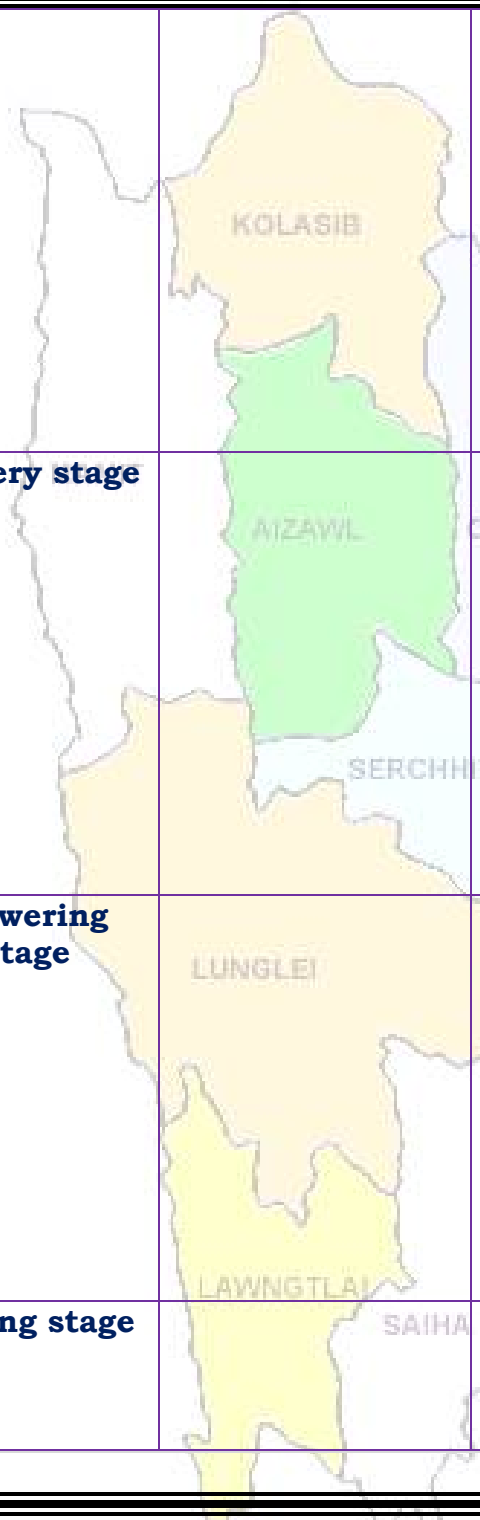
Aizawl- 245.10 mm (185.67mm)	Champhai- 103.20mm (119.49mm)	Saiha- 33.0 mm (109.81mm)	Kolasib- 293.90 mm (213.61mm)
Lawngtlai-45.40 mm (101.58mm)	Lunglei-73.06 mm (117.69mm)	Mamit-346.74 mm (236.28mm)	Serchhip-76.5mm (110.96mm)

Weather summary of the past three days	Weather forecast valid from 21th May, 2016 To 25th April, 2016.
The temperature range for maximum and minimum were 25.2-26.8ºC and 17.8-18.5ºC respectively. Mainly cloudy sky was observed. Wind direction is southeasterly to easterly. Maximum RH observed 97-99% & minimum of 42-56%. Rainfall recorded for the past three days is **042.30mm. (Source-mosdac.gov.in)**	There are chances of moderate to very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30ºC and 20ºC. Maximum relative humidity is expected in the range of 97-99% and minimum may from 47-96%. Wind direction would be southeasterly to easterly southwesterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 232.0 mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Nursery stage**		**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. 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.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. 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 optimum sugar and acid blend.
Banana	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✚ 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. ✚ 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 they become 3-4 months old. ✚ Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart 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.
Colocasia	**Sowing stage**		✚ 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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
Cucurbitaceous crop	**Fruiting stage**		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.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Cowpea	**Sowing stage**		Plough the field with the help of spade. Sow 2 seed 15 X 20 cm spacing. Before sowing seed provide one or two irrigation.
Brinjal	**Transplanting stage**		Equal quantity of sand and well decomposed FYM are mixed with soil and raised beds of 75-100 cm width and convenient length are prepared and these beds are treated with a solution of 100g of 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.
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. Seed treated with Bavistin 50 WP @ 0.1%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			(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 20-30 cm wide channel for irrigation, drainage and easy movement, it takes care of the seedlings without trampling them. ➢ Treated seed should be evenly broadcasted in each bed after applying manure.
Maize	**Sowing stage**		✚ Two to three plough are necessary to get the soil well pulverized and weed free. ✚ Seed is being placed in furrows. ✚ Seed should be treated with Thiram @4 g/kg seed. ✚ Use optimum seed rate (20-25 kg/ha) for desire plant population. ✚ Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and 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 turmeric	**Land preparation**		✚ Remove all unwanted leaves, branches and weed near to the plant. ✚ Earthing up the soil for better aeration. ✚ 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 ml/lt) for controlling scales.
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth**	• FMD vaccine at 16 week and

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Disease (FMD)	repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period: 21 May - 25 May, 2016**

Bulletin No: - 603/2016/ Bulletin/English **Date of issue: 20th May, 2016**

Parameters	21.05.2016	22.05.2016	23.05.2016	24.05.2016	25.05.2016
Rainfall (mm)	75	65	60	10	8
Max Temp (ºC)	28	28	28	28	30
Min Temp (ºC)	18	18	18	18	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear
Max RH (%)	99	99	99	99	97
Min RH (%)	94	94	87	81	52
Wind Speed (KmpH)	3	4	2	2	3
***Wind Direction**	S-E	S-E	S-W	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 MONSOON- April 1-30, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 245.10 mm (185.67mm) **Champhai- 103.20mm (119.49mm)** **Saiha- 33.0 mm (109.81mm)** **Kolasib- 293.90 mm (213.61mm)**

Lawngtlai-45.40 mm (101.58mm) **Lunglei-73.06 mm (117.69mm)** **Mamit-346.74 mm (236.28mm)** **Serchhip-76.5mm (110.96mm)**

Weather summary of the past three days

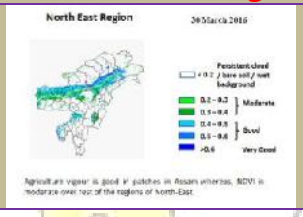
The temperature range for maximum and minimum were 24.1-26.5ºC and 16.4-21.8ºC respectively. Mainly cloudy sky was observed. Wind direction is southeasterly to easterly. Maximum RH observed 95-99% & minimum of 42-61%. Rainfall recorded for the past three days is **065.00mm. (Source-mosdac.gov.in)**

Weather forecast valid from 21th May, 2016 To 25th April, 2016.

There are chances of light to moderate and very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-30ºC and 18-19ºC. Maximum relative humidity is expected in the range of 97-99% and minimum may from 52-94%. Wind direction would be southeasterly to southwesterly and easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

***Weekly cumulative rainfall:* 218.0 mm**

NDVI for Mizoram

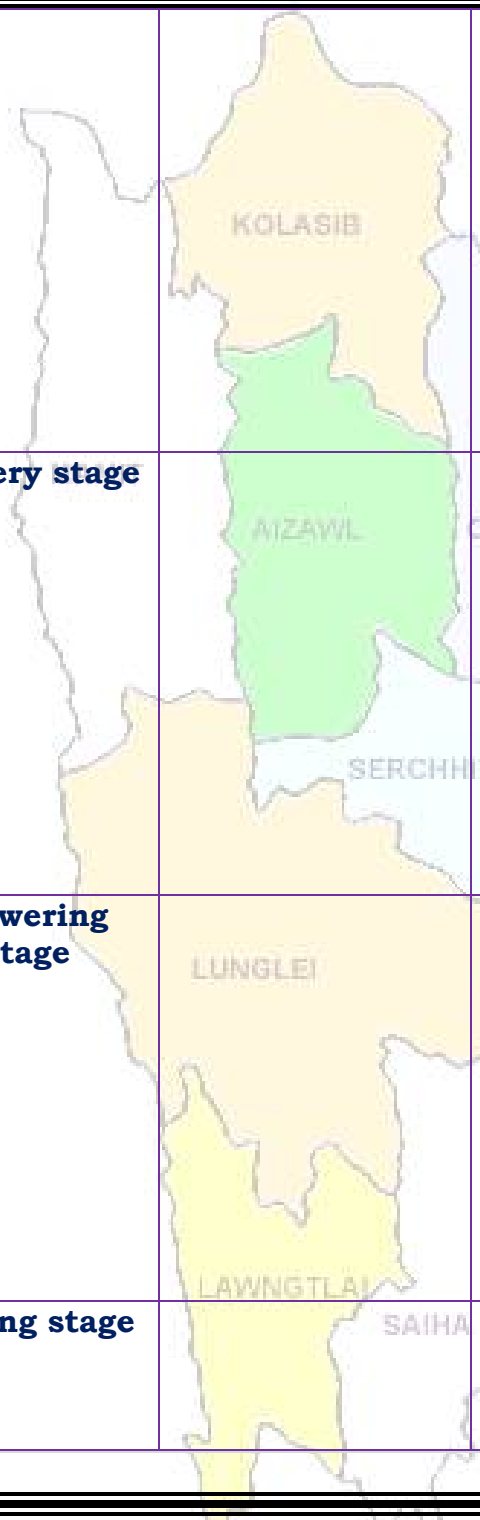


NDVI of soil moisture for Mizoram is moderate wet condition.

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Nursery stage**		✦ **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. ✦ 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.
Oil plam	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ 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 optimum sugar and acid blend.
Banana	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			✚ 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. ✚ 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 they become 3-4 months old. ✚ Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart 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.
Colocasia	**Sowing stage**		✚ 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

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
Cucurbitaceous crop	**Fruiting stage**		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.
Okra	**Sowing stage**	**Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.**	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
Cowpea	**Sowing stage**		Plough the field with the help of spade. Sow 2 seed 15 X 20 cm spacing. Before sowing seed provide one or two irrigation.
Brinjal	**Transplanting stage**		Equal quantity of sand and well decomposed FYM are mixed with soil and raised beds of 75-100 cm width and convenient length are prepared and these beds are treated with a solution of 100g of 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.
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. Seed treated with Bavistin 50 WP @ 0.1%

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			(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 20-30 cm wide channel for irrigation, drainage and easy movement, it takes care of the seedlings without trampling them. ➢ Treated seed should be evenly broadcasted in each bed after applying manure.
Maize	**Sowing stage**		✚ Two to three plough are necessary to get the soil well pulverized and weed free. ✚ Seed is being placed in furrows. ✚ Seed should be treated with Thiram @4 g/kg seed. ✚ Use optimum seed rate (20-25 kg/ha) for desire plant population. ✚ Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P_2O_5 and 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 turmeric	**Land preparation**		✚ Remove all unwanted leaves, branches and weed near to the plant. ✚ Earthing up the soil for better aeration. ✚ 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 ml/lt) for controlling scales.
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth**	• FMD vaccine at 16 week and

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

		Disease (FMD)	repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Expert committee members:

Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in