



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: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	25	25	25
Min Temp (°C)	4	3	2	2	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	97	98	96	96
Min RH (%)	38	33	29	28	34
Wind Speed (Kmph)	3	3	4	6	6
*Wind Direction	E	E	E	E	E

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

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

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm
Serchhip-0.00mm Lawngtlai-0.00mm Lunglei-0.00mm Chhimtuipui-0.00mm

Weather summary of the past three days

The temperature range for maximum and minimum were 21.4-23.6°C and 9.2-15.6°C respectively. Clean sky was observed. Wind direction is easterly. Maximum RH observed 54-66% & minimum of 17-27%. Rainfall recorded for the past three days is 00.0mm.

Weather forecast valid from 10th December, 2014 To 14th December, 2014.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-26°C and 2-4°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 28-38%. Wind direction would be easterly with the wind speed of 3-6 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> • Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.



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			<ul style="list-style-type: none"> • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Provide irrigation to the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation. ○ Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> ✚ Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. ✚ In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. ✚ Polythene nursery raising can be done/ initiate
		Damping off and Blight	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			<ul style="list-style-type: none"> ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Disease: Damping off-	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> ○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant. ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	<ul style="list-style-type: none"> ✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> ❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	<ul style="list-style-type: none"> ✓ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Flowering stage		<ul style="list-style-type: none"> ○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> ✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	<ul style="list-style-type: none"> ○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Damping off KOLASIB	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch MAMIT AIZAWL	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> ✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Lawngtalai

Period: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	27	26	26	27
Min Temp (°C)	6	6	6	5	6
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	97	96	95	94	94
Min RH (%)	29	27	25	24	22
Wind Speed (Kmph)	6	4	8	8	7
*Wind Direction	E	N-E	N-E	E	E

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

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

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm
Serchhip-0.00mm Lawngtalai-0.00mm Lunglei-0.00mm Chhimtuipui-0.00mm

**Weather summary of the past
three days**

**Weather forecast valid from 10th December, 2014 To 14th
December, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-27°C and 5-6°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 22-29%. Wind direction would be northeasterly with the wind speed of 4-8 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> • Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.



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			<ul style="list-style-type: none"> Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Provide irrigation to the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation. ○ Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> ✚ Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. ✚ In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. ✚ Polythene nursery raising can be done/ initiate
		Damping off and Blight	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			<ul style="list-style-type: none"> ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Disease: Damping off-	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> ○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
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Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> ❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
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		Mustard sawfly	<ul style="list-style-type: none"> ✓ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Flowering stage	LUNGLEI	<ul style="list-style-type: none"> ○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
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Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
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Wind Speed (Kmph)	5	4	6	6	6
*Wind Direction	E	E	E	E	E

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

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		Disease: Damping off-	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> ○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	<ul style="list-style-type: none"> ✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> ❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	<ul style="list-style-type: none"> ✓ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Flowering stage	LUNGLEI	<ul style="list-style-type: none"> ○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> ✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	<ul style="list-style-type: none"> ○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Damping off KOLASIB	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch MAMIT AIZAWL	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> ✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit

Period: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	25	25	25
Min Temp (°C)	6	5	4	4	5
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	98	97	96	97
Min RH (%)	43	38	35	33	37
Wind Speed (Kmph)	3	3	4	6	6
*Wind Direction	E	E	E	E	E

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

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

Kolasib- 0.00 mm **Champhai-** 0.00 mm **Mamit-**0.00 mm **Aizawl-**0.00 mm

Serchhip-0.00mm **Lawngtalai-**0.00mm **Lunglei-**0.00mm **Chhimtuipui-**0.00mm

**Weather summary of the past
three days**

**Weather forecast valid from 10th December, 2014 To 14th
December, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-26°C and 4-6°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 33-43%. Wind direction would be easterly with the wind speed of 3-6 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> • Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.



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)



			<ul style="list-style-type: none"> Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Provide irrigation to the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation. ○ Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. Polythene nursery raising can be done/ initiate
		Damping off and Blight	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			<ul style="list-style-type: none"> ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage		<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Disease: Damping off-	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> ○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	<ul style="list-style-type: none"> ✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> ❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	<ul style="list-style-type: none"> ✓ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Flowering stage		<ul style="list-style-type: none"> ○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		<ul style="list-style-type: none"> ✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	<ul style="list-style-type: none"> ○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Damping off KOLASIB	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch MAMIT AIZAWL	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		<ul style="list-style-type: none"> ✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Serchhip

Period: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	26	26	27
Min Temp (°C)	2	2	2	1	3
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	23	18	14	13	16
Wind Speed (Kmph)	5	4	6	7	6
*Wind Direction	E	E	E	E	E

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

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

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm
Serchhip-0.00mm Lawngtlai-0.00mm Lunglei-0.00mm Chhimtuipui-0.00mm

**Weather summary of the past
three days**

**Weather forecast valid from 10th December, 2014 To 14th
December, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-27⁰C and 1-3⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 13-23%. Wind direction would be easterly with the wind speed of 4-7 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> • Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.



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			<ul style="list-style-type: none"> Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Provide irrigation in the base. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation. ○ Provide irrigation in the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. Polythene nursery raising can be done/ initiate
		Damping off and Blight	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			<ul style="list-style-type: none"> ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation if require.
		Disease: Damping off-	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> ○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	<ul style="list-style-type: none"> ✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> ❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation if require. ❖ Weeding near the plant.
		Damping off	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	<ul style="list-style-type: none"> ✓ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Flowering stage		<ul style="list-style-type: none"> ○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> ✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	<ul style="list-style-type: none"> ○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the plant.
		Damping off KOLASIB	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch MAMIT AIZAWL	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> ✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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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: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	25	25	25
Min Temp (°C)	2	1	0	1	3
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Clear sky	Clear sky
Max RH (%)	99	99	99	98	98
Min RH (%)	36	31	27	26	31
Wind Speed (Kmph)	3	2	3	6	5
*Wind Direction	E	E	E	E	E

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

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

Kolasib- 0.00 mm **Champhai-** 0.00 mm **Mamit-**0.00 mm **Aizawl-**0.00 mm
Serchhip-0.00mm **Lawngtalai-**0.00mm **Lunglei-**0.00mm **Chhimtuipui-**0.00mm

Weather summary of the past three days

Weather forecast valid from 10th December, 2014 To 14th December, 2014.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-26⁰C and 0-3⁰C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 26-36%. Wind direction would be easterly with the wind speed of 2-6 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> • Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.



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)



			<ul style="list-style-type: none"> • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Provide irrigation to the base. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation. ○ Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> ✚ Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. ✚ In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. ✚ Polythene nursery raising can be done/initiate
		Damping off and Blight	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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)



			<ul style="list-style-type: none"> ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the plant.
		Disease: Damping off-	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> ○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	<ul style="list-style-type: none"> ✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> ❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	<ul style="list-style-type: none"> ✓ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Flowering stage		<ul style="list-style-type: none"> ○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> ✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	<ul style="list-style-type: none"> ○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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)



Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Damping off KOLASIB	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch MAMIT AIZAWL	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> ✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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)



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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: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	25	24	25
Min Temp (°C)	4	2	1	1	3
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	35	30	26	27	29
Wind Speed (Kmph)	4	3	4	5	4
*Wind Direction	S-E	S-E	S-E	S	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- November 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm **Champhai-** 0.00 mm **Mamit-**0.00 mm **Aizawl-**0.00 mm
Serchhip-0.00mm **Lawngtalai-**0.00mm **Lunglei-**0.00mm **Chhimtuipui-**0.00mm

Weather summary of the past three days

Weather forecast valid from 10th December, 2014 To 14th December, 2014.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 24-25°C and 1-4°C. Maximum relative humidity is expected in the range of 100% and minimum may from 26-35%. Wind direction would be southeasterly with the wind speed of 3-5 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> • Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.



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)



			<ul style="list-style-type: none"> Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Provide irrigation in the base. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation. ○ Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> ✚ Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. ✚ In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. ✚ Polythene nursery raising can be done/ initiate
		Damping off and Blight	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<ul style="list-style-type: none"> ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the field.
		Disease: Damping off-	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> ○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	<ul style="list-style-type: none"> ✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> ❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation in the plant. ❖ Weeding near the plant.
		Damping off	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	<ul style="list-style-type: none"> ✓ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Flowering stage	LUNGLEI	<ul style="list-style-type: none"> ○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> ✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	<ul style="list-style-type: none"> ○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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)



Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the plant.
		Damping off KOLASIB	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch MAMIT AIZAWL	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> ✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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)



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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: Chhimtuipui

Period: 10 - 14 December, 2014

Bulletin No: -473/2014/ Bulletin/English

Date of issue: 09th December, 2014

Parameters	10.12.2014	11.12.2014	12.12.2014	13.12.2014	14.12.2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	27	27	27	28
Min Temp (°C)	3	3	4	3	4
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	20	18	18	16	14
Wind Speed (Kmph)	6	4	7	7	7
*Wind Direction	E	E	E	E	E

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

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

Kolasib- 0.00 mm Champhai- 0.00 mm Mamit-0.00 mm Aizawl-0.00 mm
Serchhip-0.00mm Lawngtlai-0.00mm Lunglei-0.00mm Chhimtuipui-0.00mm

**Weather summary of the past
three days**

**Weather forecast valid from 10th December, 2014 To 14th
December, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-28^oC and 3-4^oC. Maximum relative humidity is expected in the range of 99% and minimum may from 14-20%. Wind direction would be easterly with the wind speed of 4-7 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> • Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.



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)



			<ul style="list-style-type: none"> Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Provide irrigation to the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation. ○ Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. Polythene nursery raising can be done/ initiate
		Damping off and Blight	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Disease: Damping off-	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> ○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	<ul style="list-style-type: none"> ✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> ❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	<ul style="list-style-type: none"> ✓ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Flowering stage		<ul style="list-style-type: none"> ○ Weeding in the toria plot. ○ Provide irrigation to the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> ✓ Weeding to the pea plot. ✓ Provide irrigation in the field.
		Aphid	<ul style="list-style-type: none"> ○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the plant.
		Damping off KOLASIB	<ul style="list-style-type: none"> ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch MAMIT AIZAWL	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> ✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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