



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: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/Mizo

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	10	15	10	5	3
Max Temp (oC)	30	29	30	30	30
Min Temp (oC)	22	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	96	96	97	96	96
Min RH (%)	67	68	62	64	63
Wind Speed (Kmph)	5	4	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

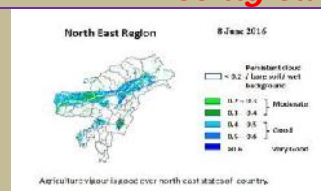
Ni thum kaltha sik leh sa dinhmun tlangpui

June 18, 2016 atanga June 22, 2016 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30°C a ni ang a.A vawh lai ber in 23°C ni tur ah beisei a ni.RH san lai berin 96-97%leh a hniam lai berin 62-68% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-5 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 43.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

Thlai/ ran /sangha

Spat zawng

Hmalakna tur/ rannung leh natna

Agricultural/Horticultural/ animal husbandry atana thurawn





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	hrik awm thei te	
Serthlum	Nursery stage 	<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage 	<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur.



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			<ul style="list-style-type: none"> Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.



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Lakhuihthei	A par lai		<ul style="list-style-type: none"> A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
			<ul style="list-style-type: none"> Corm borer Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai		<ul style="list-style-type: none"> Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan		<ul style="list-style-type: none"> 1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur. A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai		<ul style="list-style-type: none"> Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A



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			<p>chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <ul style="list-style-type: none"> A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	KOLASIB	<ul style="list-style-type: none"> Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice	<ul style="list-style-type: none"> A chi tha leh khat tha chauh hman tur. Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	<ul style="list-style-type: none"> A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		<ul style="list-style-type: none"> Lei chu vawi 2/3 laihphut phawt tur. A chi chu a line indawt a chin tur A chi chu kg khatah Thiram 4g a chiah tur. Hectare khatah buh chi chu 20-25kg hman tur. Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve



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			in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	KOLASIB	<ul style="list-style-type: none"> Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	<ul style="list-style-type: none"> Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.
		Scales	<ul style="list-style-type: none"> Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	<ul style="list-style-type: none"> Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Lunglei

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/English

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	15	15	10	3	3
Max Temp (°C)	30	29	29	29	29
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Partially clear
Max RH (%)	99	98	99	98	98
Min RH (%)	67	70	63	66	64
Wind Speed (Kmph)	3	2	2	3	3
*Wind Direction	E	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

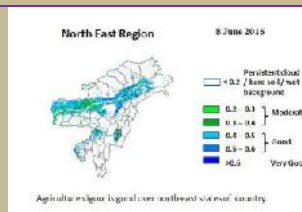
The temperature range for maximum and minimum were 26.3-31.5°C and 19.4-21.5°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 90-99% & minimum of 74-90%. Rainfall recorded for the past three days is **20.30mm.** (Source-NICRA, AWS)

Weather forecast valid from 18th June, 2016 To 22nd June, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 23°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 63-73%. Wind direction would be easterly to southeasterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 46.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

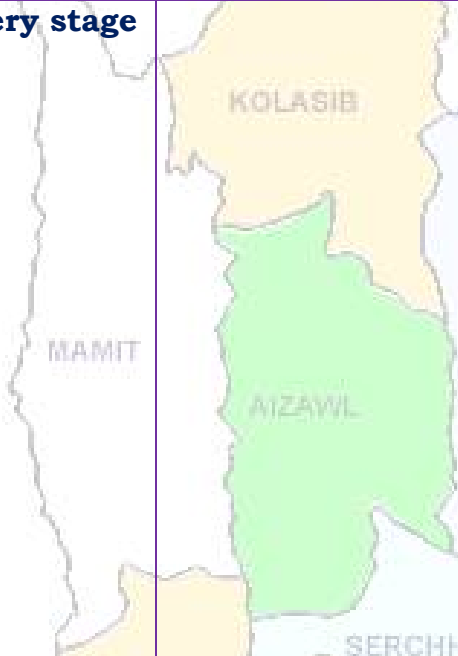




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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Nursery stage		<ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery 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		<ul style="list-style-type: none"> ✚ 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	Flowering stage		<ul style="list-style-type: none"> ✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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		KOLASIB	<ul style="list-style-type: none"> 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.
		MAMIT NIZAWL CHAMPAI	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	<p>Comb weevil and stem weevil</p> <p>SERCHHIP</p> <p>LUNGLEI</p>	<ul style="list-style-type: none"> High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. <p>Grafting:</p> <ul style="list-style-type: none"> The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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Colocasia	Vegetative stage	KOLASIB	<p>weed near to the plant.</p> <ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	<ul style="list-style-type: none"> Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> 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. Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin



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			<p>@0.5 ml/lit of water for reduce grass type weed.</p> <ul style="list-style-type: none"> Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage		<ul style="list-style-type: none"> Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. Select disease free seedling with 3-5 leaf stage. Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of the

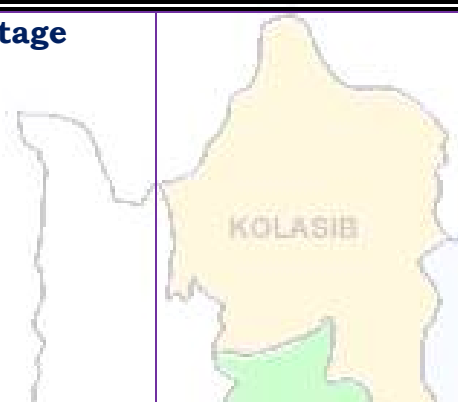



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turmeric	stage		<p>plant and cut dead branches.</p> <ul style="list-style-type: none"> Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		<ul style="list-style-type: none"> Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
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)	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> F1 vaccine at (1-6) days of birth and R₂B 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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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/Mizo

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	15	15	10	3	3
Max Temp (oC)	30	29	29	29	29
Min Temp (oC)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Partially clear
Max RH (%)	99	98	99	98	98
Min RH (%)	67	70	63	66	64
Wind Speed (Kmph)	3	2	2	3	3
*Wind Direction	E	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

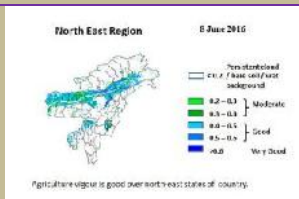
June 18, 2016 atanga June 22, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 26.3-31.5°C leh a vawh lai berin 19.4-21.5°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 90-99% leh a hniam lai 74-90% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **20.30mm** ani. (Source- **Mosdac.gov.in**)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 23°C ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 63-73% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 46.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Nursery stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah



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			<p>600:200:100g a pek tur.</p> <ul style="list-style-type: none"> Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chungin pek tur.



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Lakhuihthei	A par lai	KOLASIB	<ul style="list-style-type: none"> A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAL	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	LAWNGTLAI	<ul style="list-style-type: none"> 1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.
French bean	A par lai	SAIHA	<ul style="list-style-type: none"> Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A



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			<p>chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice MAMIT AIZAWL CHAMPAI	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a</p>



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			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	KOLASIB	<ul style="list-style-type: none"> Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	<ul style="list-style-type: none"> Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	<ul style="list-style-type: none"> Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	<ul style="list-style-type: none"> Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Mamit

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/English

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	7	3	4	4	7
Max Temp (°C)	31	30	30	30	29
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	95	99	96	97
Min RH (%)	67	72	66	72	73
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	S-E	S-E	S-E	S	S

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

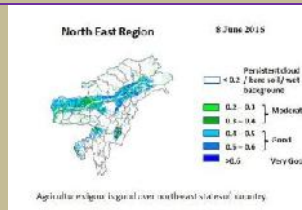
The temperature range for maximum and minimum were 26.1-31.4°C and 20.6-24.7°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 86-100% & minimum of 64-94%. Rainfall recorded for the past three days is **84.60mm.** (Source- mosdac.gov.in)

Weather forecast valid from 18th June, 2016 To 22nd June, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 23°C. Maximum relative humidity is expected in the range of 95-99% and minimum may from 67-73%. Wind direction would be southeasterly to southerly and northeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 25.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

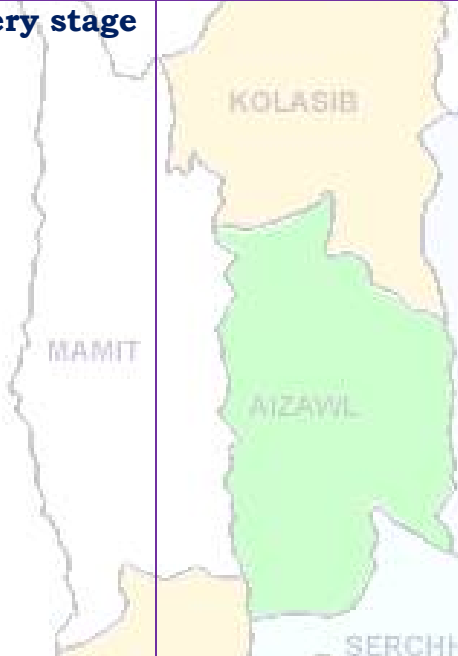




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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Nursery stage		<ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ 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	Flowering stage		<ul style="list-style-type: none"> ✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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		KOLASIB	<ul style="list-style-type: none"> 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.
		MAMIT NIZAWL CHAMPAI	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	<p>Comb weevil and stem weevil</p> <p>SERCHHIP</p> <p>LUNGLEI</p>	<ul style="list-style-type: none"> High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. <p>Grafting:</p> <ul style="list-style-type: none"> The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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Colocasia	Vegetative stage	KOLASIB	<p>weed near to the plant.</p> <ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	<ul style="list-style-type: none"> Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> 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. Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin



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)



			<p>@0.5 ml/lit of water for reduce grass type weed.</p> <ul style="list-style-type: none"> Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage		<ul style="list-style-type: none"> Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. Select disease free seedling with 3-5 leaf stage. Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of the

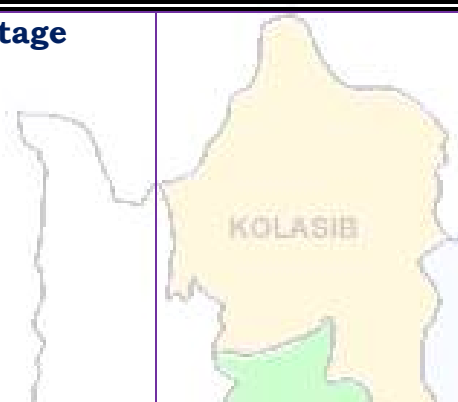



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turmeric	stage		<p>plant and cut dead branches.</p> <ul style="list-style-type: none"> Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		<ul style="list-style-type: none"> Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
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)	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> F1 vaccine at (1-6) days of birth and R₂B 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: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/Mizo

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	7	3	4	4	7
Max Temp (oC)	31	30	30	30	29
Min Temp (oC)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	95	99	96	97
Min RH (%)	67	72	66	72	73
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	S-E	S-E	S-E	S	S

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

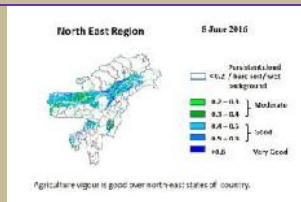
June 18, 2016 atanga June 22, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 26.1-31.4^oC leh a vawh lai berin 20.6-24.7^oC ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 86-100% leh a hniam lai 64-94% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **84.60mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31^oC a ni ang a. A vawh lai ber in 23^oC ni tur ah beisei a ni. RH san lai berin 95-99% leh a hniam lai berin 67-73% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 25.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Nursery stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah



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			<p>600:200:100g a pek tur.</p> <ul style="list-style-type: none"> Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chungin pek tur.



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Lakhuihthei	A par lai	KOLASIB	<ul style="list-style-type: none"> A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAL	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	LAWNGTLAI	<ul style="list-style-type: none"> 1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur. A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai	SAIHA	<ul style="list-style-type: none"> Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A



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			<p>chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice MAMIT AIZAWL CHAMPAT	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a</p>



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			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	KOLASIB	<ul style="list-style-type: none"> Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	<ul style="list-style-type: none"> Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	<ul style="list-style-type: none"> Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	<ul style="list-style-type: none"> Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Saiha

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/English

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	8	3	3	5	3
Max Temp (°C)	30	29	29	29	29
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	98	98	98
Min RH (%)	69	69	62	65	64
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

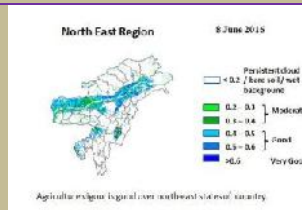
The temperature range for maximum and minimum were 24.3-28.4°C and 16.1-21.5°C respectively. Mainly clear sky was observed. Wind direction is southeasterly. Maximum RH observed 85-99% & minimum of 74-90%. Rainfall recorded for the past three days is **29.30mm.** (Source-mosdac.gov.in)

Weather forecast valid from 18th June, 2016 To 22nd June, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 23°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 62-69%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 22.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

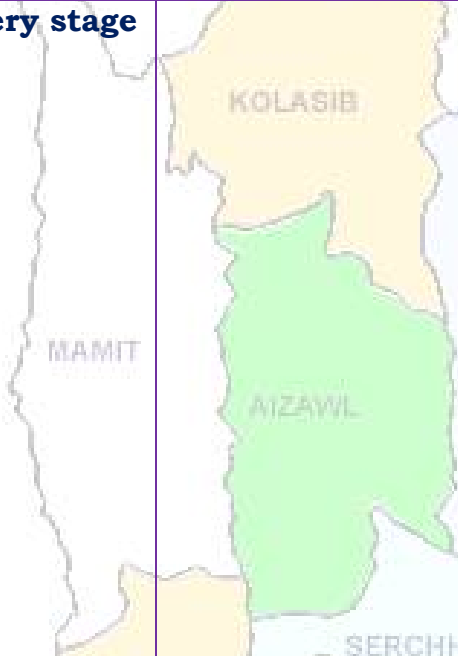




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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Nursery stage		<ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery 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		<ul style="list-style-type: none"> ✚ 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	Flowering stage		<ul style="list-style-type: none"> ✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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		KOLASIB	<ul style="list-style-type: none"> 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.
		MAMIT NIZAWL CHAMPAI	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	<p>Comb weevil and stem weevil</p> <p>SERCHHIP</p> <p>LUNGLEI</p>	<ul style="list-style-type: none"> High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. <p>Grafting:</p> <ul style="list-style-type: none"> The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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Colocasia	Vegetative stage	KOLASIB	<p>weed near to the plant.</p> <ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	<ul style="list-style-type: none"> Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none"> 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. Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin



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			<p>@0.5 ml/lit of water for reduce grass type weed.</p> <ul style="list-style-type: none"> Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage		<ul style="list-style-type: none"> Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. Select disease free seedling with 3-5 leaf stage. Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of the

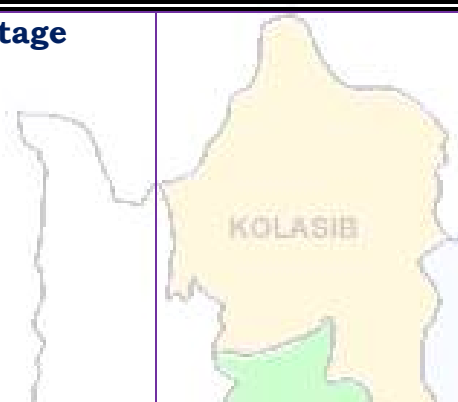



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turmeric	stage		<p>plant and cut dead branches.</p> <ul style="list-style-type: none"> Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		<ul style="list-style-type: none"> Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
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)	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Saiha

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/Mizo

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	8	3	3	5	3
Max Temp (oC)	30	29	29	29	29
Min Temp (oC)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	98	98	98
Min RH (%)	69	69	62	65	64
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

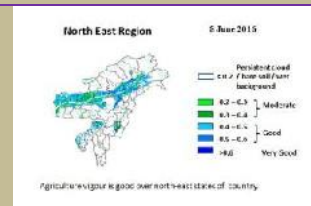
June 18, 2016 atanga June 22, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 24.3-28.4^oC leh a vawh lai berin 16.1-21.5^oC ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 85-99% leh a hniam lai 74-90% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **29.30mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30^oC a ni ang a.A vawh lai ber in 23^oC ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 62-69% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 22.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Nursery stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah



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			<p>600:200:100g a pek tur.</p> <ul style="list-style-type: none"> Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.



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Lakhuihthei	A par lai		<ul style="list-style-type: none"> A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai		<ul style="list-style-type: none"> Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan		<ul style="list-style-type: none"> 1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur. A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai		<ul style="list-style-type: none"> Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A



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			<p>chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <ul style="list-style-type: none"> A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	KOLASIB	<ul style="list-style-type: none"> Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> A chi tha leh khat tha chauh hman tur. Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method SERCHHIP	<ul style="list-style-type: none"> A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Lei chu vawi 2/3 laihphut phawt tur. A chi chu a line indawt a chin tur A chi chu kg khatah Thiram 4g a chiah tur. Hectare khatah buh chi chu 20-25kg hman tur. Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a



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			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	KOLASIB	<ul style="list-style-type: none"> Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	<ul style="list-style-type: none"> Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	<ul style="list-style-type: none"> Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	<ul style="list-style-type: none"> Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Serchhip

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/English

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	7	4	4	4	4
Max Temp (°C)	30	29	28	28	28
Min Temp (°C)	23	24	24	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	100	100	100	99	100
Min RH (%)	70	74	64	71	67
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

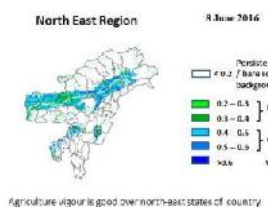
Weather summary of the past three days

Weather forecast valid from 18th June, 2016 To 22nd June, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-30°C and 23-24°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 64-71%. Wind direction would be easterly to southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 23.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

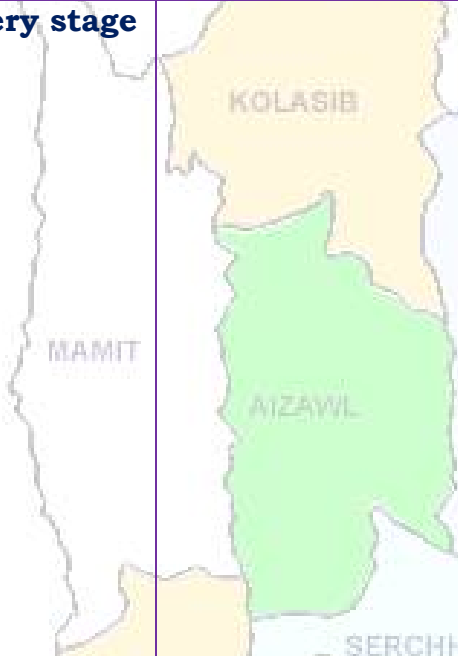




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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Nursery stage		<ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ 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	Flowering stage		<ul style="list-style-type: none"> ✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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		KOLASIB	<ul style="list-style-type: none"> 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.
		MAMIT NIZAWL CHALPAI	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	<p>Comb weevil and stem weevil</p> <p>SERCHHIP</p> <p>LUNGLEI</p>	<ul style="list-style-type: none"> High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. <p>Grafting:</p> <ul style="list-style-type: none"> The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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Colocasia	Vegetative stage	KOLASIB	<p>weed near to the plant.</p> <ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	<ul style="list-style-type: none"> Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> 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. Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin



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			<p>@0.5 ml/lit of water for reduce grass type weed.</p> <ul style="list-style-type: none"> Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage		<ul style="list-style-type: none"> Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. Select disease free seedling with 3-5 leaf stage. Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of the

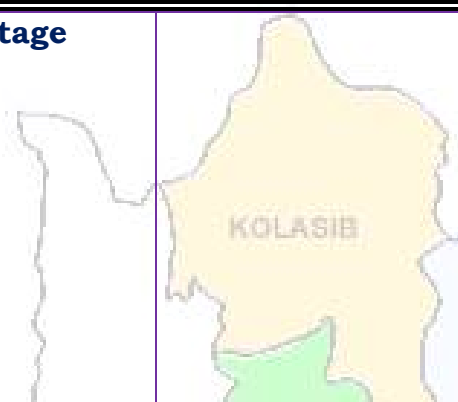



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turmeric	stage		<p>plant and cut dead branches.</p> <ul style="list-style-type: none"> Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		<ul style="list-style-type: none"> Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
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)	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Serchhip

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/Mizo

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	7	4	4	4	4
Max Temp (°C)	30	29	28	28	28
Min Temp (°C)	23	24	24	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	100	100	100	99	100
Min RH (%)	70	74	64	71	67
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)					
Aizawl- 383.68mm (341.8mm) Champhai- 239.49mm (250.30mm) Saiha- 109.52 mm (87.2mm) Kolasib- 352.38mm (380.9mm)					
Lawngtlai-321.51mm (285.5mm) Lunglei-344.00mm (186.21mm) Mamit-449.48mm (442.80mm) Serchhip-411.72mm (25.9mm)					
Ni thum kaltha sik leh sa dinhmun tlangpui		June 18, 2016 atanga June 22, 2016 sik leh sa dinhmun hmuhlawk dan			
		<p>Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-30°C a ni ang a. A vawh lai berin 23-24°C ni tur ah beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 64-71% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga hhung lo awm tur ah hian chhum tlem a lan beisei a ni.</p>			
		Weekly cumulative rainfall: 23.0mm			
NDVI for Mizoram				NDVI of soil moisture for Mizoram is moderate wet condition.	
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te		Agricultural/Horticultural/ animal husbandry atana thurawn	





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Serthlum	Nursery stage 	<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tiak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage 	<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhat ah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhat ah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper,



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			<p>manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur.</p> <ul style="list-style-type: none"> Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai		<ul style="list-style-type: none"> A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04%



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		KOLASIB	<p>sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</p> <ul style="list-style-type: none"> Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	<ul style="list-style-type: none"> Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	AIZAWL	<ul style="list-style-type: none"> Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrh Saiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	<ul style="list-style-type: none"> A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai		<ul style="list-style-type: none"> Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan	LAWNGTLAI	<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah



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			emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	KOLASIB	✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). ✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice MAMIT AIZAWL CHAMPAL	✚ A chi tha leh khat tha chauh hman tur. ✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. ✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method SERCHHIP	✚ A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. ✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	✚ Lei chu vawi 2/3 laihphut phawt tur. ✚ A chi chu a line indawt a chin tur ✚ A chi chu kg khatah Thiram 4g a chiah tur. ✚ Hectare khatah buh chi chu 20-25kg hman tur. ✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu



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			thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		<ul style="list-style-type: none"> Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	<ul style="list-style-type: none"> Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	<ul style="list-style-type: none"> Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	<ul style="list-style-type: none"> Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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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: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/Mizo

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	10	15	15	5	7
Max Temp (oC)	30	28	28	28	27
Min Temp (oC)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	97	99	98	99
Min RH (%)	73	77	69	75	76
Wind Speed (Kmph)	2	2	2	2	3
*Wind Direction	S-E	E	S-E	S-E	S-E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

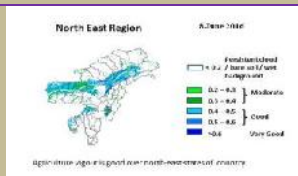
June 18, 2016 atanga June 22, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 26.2-29.1^oC leh a vawh lai berin 19.4-22.8^oC ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 87-95% leh a hniam lai 41-89% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **14.80mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-30^oC a ni ang a. A vawh lai ber in 23^oC ni tur ah beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 69-76% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 52.0mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Nursery stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah



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			<p>600:200:100g a pek tur.</p> <ul style="list-style-type: none"> Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chungin pek tur.



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Lakhuihthei	A par lai	KOLASIB	<ul style="list-style-type: none"> A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAL	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	LAWNGTLAI	<ul style="list-style-type: none"> 1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur. A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai	SAIHA	<ul style="list-style-type: none"> Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A



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			<p>chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice MAMIT AIZAWL CHAMPAI	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a</p>



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			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	KOLASIB	<ul style="list-style-type: none"> Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	<ul style="list-style-type: none"> Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	<ul style="list-style-type: none"> Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	<ul style="list-style-type: none"> Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Aizawl

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/English

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	10	15	15	5	7
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Max RH (%)	99	97	99	98	99
Min RH (%)	73	77	69	75	76
Wind Speed (Kmph)	2	2	2	2	3
*Wind Direction	S-E	E	S-E	S-E	S-E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

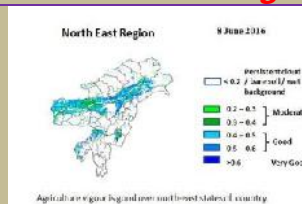
The temperature range for maximum and minimum were 26.2-29.1°C and 19.4-22.8°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 87-95% & minimum of 41-89%. Rainfall recorded for the past three days is **14.80 mm.** (Source-mosdac.gov.in)

Weather forecast valid from 18th June, 2016 To 22nd June, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-30°C and 23°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 69-76%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 52.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
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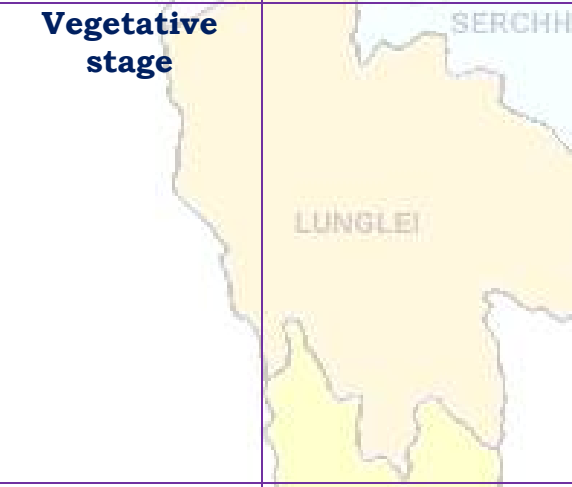



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Animal / Fisheries		practices/ Pest/ Diseases	husbandry advisories
Khasi Mandarin and acid lime	Nursery stage		<ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm 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		<ul style="list-style-type: none"> ✚ 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	Flowering stage		<ul style="list-style-type: none"> ✚ Clear 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,



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		KOLASIB	<p>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.</p> <ul style="list-style-type: none"> ✚ 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.
		MAMIT AIZAWL CHAMPAI	<p>Comb weevil and stem weevil</p> <ul style="list-style-type: none"> ✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> ✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. <p>Grafting:</p> <ul style="list-style-type: none"> ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ✚ 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.



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Colocasia	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	<ul style="list-style-type: none"> Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none"> In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle.
Okra	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> Harvest all mature fruit. Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type



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			<p>weed.</p> <ul style="list-style-type: none"> Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage		<ul style="list-style-type: none"> Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. Select disease free seedling with 3-5 leaf stage. Treat seedling with Bavistin 50 WP @ 0.1% (2 g/l) solution. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches.





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Mizoram Centre, Kolasib- 796081, MIZORAM

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



turmeric	stage		<ul style="list-style-type: none"> Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. Earing up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		<ul style="list-style-type: none"> Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
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)	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> F1 vaccine at (1-6) days of birth and R₂B 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: Champhai

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/English

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	11	15	15	6	6
Max Temp (°C)	28	27	27	28	27
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	98	98
Min RH (%)	79	81	72	73	73
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	S-E	S-E	S	S

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

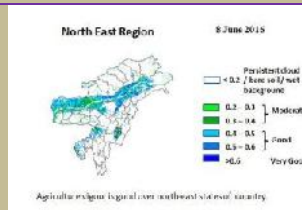
The temperature range for maximum and minimum were 26.7-28.8°C and 16.3-20.3°C respectively. Partially clear sky was observed. Wind direction is southeasterly. Maximum RH observed 84-97% & minimum of 58-92%. Rainfall recorded for the past three days is **15.50mm.** (Source- mosdac.gov.in)

Weather forecast valid from 18th June, 2016 To 22nd June, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 23°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 73-81%. Wind direction would be easterly to southeasterly to southerly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 53.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

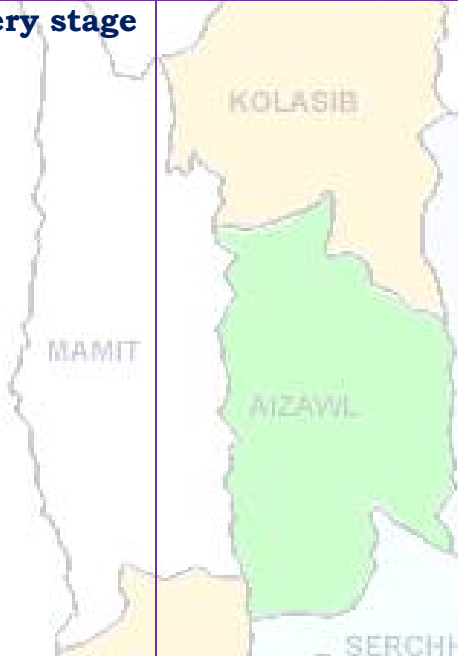




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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Nursery stage		<ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ 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	Flowering stage		<ul style="list-style-type: none"> ✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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		KOLASIB	<ul style="list-style-type: none"> 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.
		MAMIT NIZAWL CHAMPAI	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	<p>Comb weevil and stem weevil</p> <p>SERCHHIP</p> <p>LUNGLEI</p>	<ul style="list-style-type: none"> High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. <p>Grafting:</p> <ul style="list-style-type: none"> The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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Colocasia	Vegetative stage	KOLASIB	<p>weed near to the plant.</p> <ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	<ul style="list-style-type: none"> Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	MAMIT AIZAWL	<ul style="list-style-type: none"> 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. Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin



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			<p>@0.5 ml/lit of water for reduce grass type weed.</p> <ul style="list-style-type: none"> Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage		<ul style="list-style-type: none"> Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. Select disease free seedling with 3-5 leaf stage. Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of the

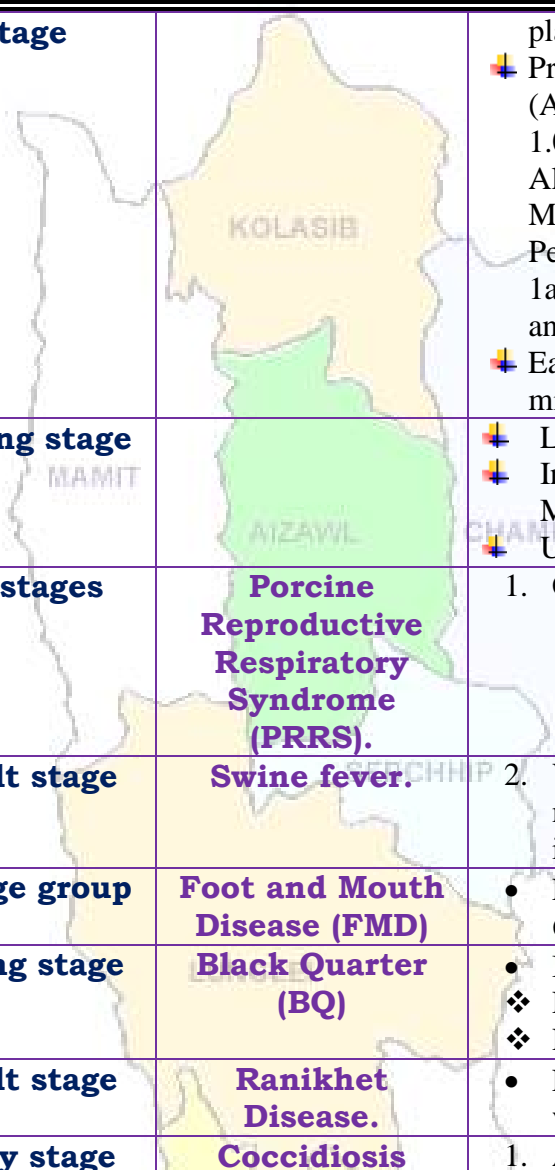


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turmeric	stage		<p>plant and cut dead branches.</p> <ul style="list-style-type: none"> Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		<ul style="list-style-type: none"> Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
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)	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Champhai

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/Mizo

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	11	15	15	6	6
Max Temp (oC)	28	27	27	28	27
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*Wind Direction	E	S-E	S-E	S	S

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

June 18, 2016 atanga June 22, 2016 sik leh sa dinhmun hmuhlawk dan

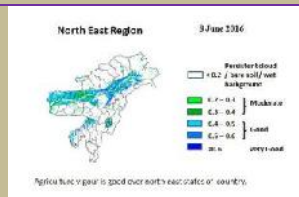
Khua a lum lai berin 26.7-28.8^oC leh a vawh lai berin 16.3-20.3^oC ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 84-97% leh a hniam lai 58-92% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **15.50mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-29^oC a ni ang a. A vawh lai ber in 23^oC ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 73-81% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 53.0mm

NDVI for Mizoram

NDVI of soil moisture for Mizoram is moderate wet condition.





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



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Nursery stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah



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			<p>600:200:100g a pek tur.</p> <ul style="list-style-type: none"> Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chungin pek tur.



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Lakhuihthei	A par lai	KOLASIB	<ul style="list-style-type: none"> A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		MAMIT	
		AIZAWL	Corm borer
		CHAMPAL	
Cucurbitaceous crops	A rah lai	SERCHHIP	<ul style="list-style-type: none"> Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	LAWNGTLAI	<ul style="list-style-type: none"> 1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.
French bean	A par lai	SAIHA	<ul style="list-style-type: none"> Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A



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			<p>chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <p>✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</p>
Tomato	A chin dan	KOLASIB	<p>✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</p> <p>✚ Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</p>
Buh	Nursery stage	Pre kharif rice MAMIT AIZAWL CHAMPAI	<p>✚ A chi tha leh khat tha chauh hman tur.</p> <p>✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</p> <p>✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</p>
		Raised bed method SERCHHIP	<p>✚ A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.</p> <p>✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</p>
Vaimim	A chin dan	LUNGLEI LAWNGTLAI SAIHA	<p>✚ Lei chu vawi 2/3 laihphut phawt tur.</p> <p>✚ A chi chu a line indawt a chin tur</p> <p>✚ A chi chu kg khatah Thiram 4g a chiah tur.</p> <p>✚ Hectare khatah buh chi chu 20-25kg hman tur.</p> <p>✚ Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a</p>



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			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	KOLASIB	<ul style="list-style-type: none"> Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	<ul style="list-style-type: none"> Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	<ul style="list-style-type: none"> Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	<ul style="list-style-type: none"> Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Kolasib

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/English

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	10	15	10	5	7
Max Temp (°C)	30	29	28	29	28
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	97	99	98	98
Min RH (%)	75	77	69	76	79
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S	S

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

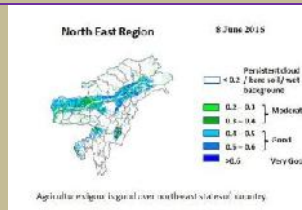
The temperature range for maximum and minimum were 26.8-29.1°C and 21.8-23.4°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 95-100% & minimum of 70-87%. Rainfall recorded for the past three days is **102.60mm.** (Source- mosdac.gov.in)

Weather forecast valid from 18th June, 2016 To 22nd June, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-30°C and 23°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 69-79%. Wind direction would be southeasterly to easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 47.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

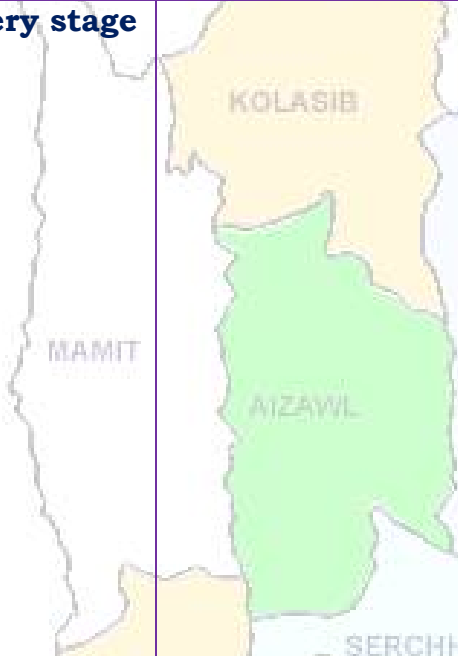




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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Nursery stage		<ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery 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		<ul style="list-style-type: none"> ✚ 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	Flowering stage		<ul style="list-style-type: none"> ✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt).



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		KOLASIB	<ul style="list-style-type: none"> 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.
		MAMIT NIZAWL CHAMPAI	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	<p>Comb weevil and stem weevil</p> <p>SERCHHIP</p> <p>LUNGLEI</p>	<ul style="list-style-type: none"> High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. <p>Grafting:</p> <ul style="list-style-type: none"> The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> 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



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Colocasia	Vegetative stage	KOLASIB	<p>weed near to the plant.</p> <ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	<ul style="list-style-type: none"> Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none"> 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. Harvest all mature fruit.
Okra	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin



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			<p>@0.5 ml/lit of water for reduce grass type weed.</p> <ul style="list-style-type: none"> Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage		<ul style="list-style-type: none"> Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. Select disease free seedling with 3-5 leaf stage. Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lit) solution. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of the

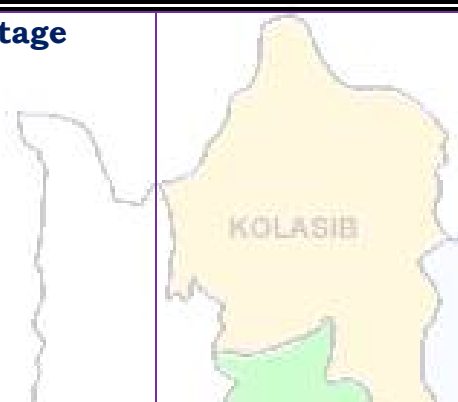



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turmeric	stage		<p>plant and cut dead branches.</p> <ul style="list-style-type: none"> Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		<ul style="list-style-type: none"> Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
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)	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Kolasib

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/Mizo

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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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
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Ni thum kaltha sik leh sa dinhmun tlangpui

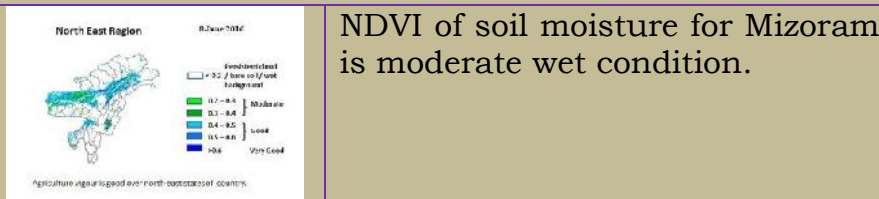
June 18, 2016 atanga June 22, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 26.8-29.1^oC leh a vawh lai berin 21.8-23.4^oC ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 95-100% leh a hniam lai 70-87% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **102.60mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-30^oC a ni ang a. A vawh lai ber in 23^oC ni tur ah beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 69-79% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 47.0mm

NDVI for Mizoram





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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Nursery stage		<ul style="list-style-type: none"> A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
Oil palm	Vegetative stage		<ul style="list-style-type: none"> Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah



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			<p>600:200:100g a pek tur.</p> <ul style="list-style-type: none"> Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Flowering stage		<ul style="list-style-type: none"> Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhtah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	<ul style="list-style-type: none"> Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	Transplanting stage		<ul style="list-style-type: none"> A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chungin pek tur.



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Lakhuihthei	A par lai		<ul style="list-style-type: none"> A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
Cucurbitaceous crops	A rah lai		<ul style="list-style-type: none"> Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhat a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan		<ul style="list-style-type: none"> 1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur. A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	A par lai		<ul style="list-style-type: none"> Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	A chin dan		<ul style="list-style-type: none"> Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A



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			<p>chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leh tur.</p> <ul style="list-style-type: none"> A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	KOLASIB	<ul style="list-style-type: none"> Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	Nursery stage	Pre kharif rice	<ul style="list-style-type: none"> A chi tha leh khat tha chauh hman tur. Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	<ul style="list-style-type: none"> A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		<ul style="list-style-type: none"> Lei chu vawi 2/3 laihphut phawt tur. A chi chu a line indawt a chin tur A chi chu kg khatah Thiram 4g a chiah tur. Hectare khatah buh chi chu 20-25kg hman tur. Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a



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			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	KOLASIB	<ul style="list-style-type: none"> Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	<ul style="list-style-type: none"> Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	<ul style="list-style-type: none"> Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	<ul style="list-style-type: none"> Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	<ul style="list-style-type: none"> Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Lawngtlai

Period: 18 June - 22 June, 2016

Bulletin No: - 611/2016/ Bulletin/English

Date of issue: 17th June, 2016

Parameters	18.06.2016	19.06.2016	20.06.2016	21.06.2016	22.06.2016
Rainfall (mm)	10	15	10	5	3
Max Temp (°C)	30	29	30	30	30
Min Temp (°C)	22	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	96	96	97	96	96
Min RH (%)	67	68	62	64	63
Wind Speed (Kmph)	5	4	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

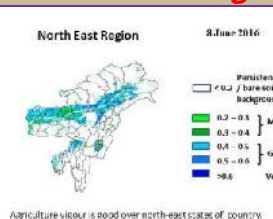
Weather summary of the past three days

Weather forecast valid from 18th June, 2016 To 22nd June, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 23°C. Maximum relative humidity is expected in the range of 96-97% and minimum may from 62-68%. Wind direction would be easterly with the wind speed of 4-5 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 43.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
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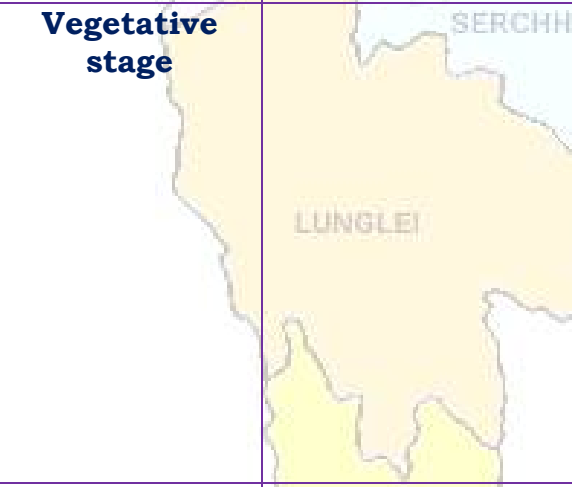



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Animal / Fisheries		practices/ Pest/ Diseases	husbandry advisories
Khasi Mandarin and acid lime	Nursery stage		<ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm 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		<ul style="list-style-type: none"> ✚ 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	Flowering stage		<ul style="list-style-type: none"> ✚ Clear 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,



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		KOLASIB	<p>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.</p> <ul style="list-style-type: none"> ✚ 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.
		MAMIT AIZAWL CHAMPAI	<p>Comb weevil and stem weevil</p> <ul style="list-style-type: none"> ✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	Transplanting stage	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> ✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. <p>Grafting:</p> <ul style="list-style-type: none"> ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	Flowering stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ✚ 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.



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Colocasia	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	<ul style="list-style-type: none"> Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none"> In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle.
Okra	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> Harvest all mature fruit. Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging.
Cowpea	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Flowering stage	LAWNGTLAI	<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type



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			<p>weed.</p> <ul style="list-style-type: none"> Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage		<ul style="list-style-type: none"> Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. Select disease free seedling with 3-5 leaf stage. Treat seedling with Bavistin 50 WP @ 0.1% (2 g/l) solution. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Vegetative stage		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	Vegetative		<ul style="list-style-type: none"> Remove unwanted plant near base of the plant and cut dead branches.


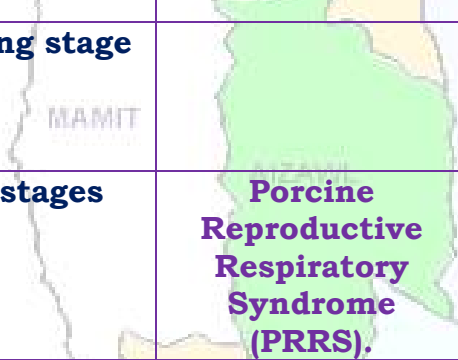


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turmeric	stage		<ul style="list-style-type: none"> Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. Earing up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage		<ul style="list-style-type: none"> Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
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)	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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