



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Champhai

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/Mizo

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	19	16	16	9	14
Max Temp (oC)	27	27	28	27	28
Min Temp (oC)	20	20	20	20	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	98	99	99	99
Min RH (%)	71	71	81	85	68
Wind Speed (Kmph)	2	2	0	2	2
*Wind Direction	S	S-E	N-E	E	E

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

STATUS OF MONSOON- 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**

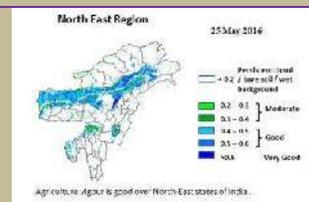
**June 15, 2016 atanga June 19, 2016 sik leh
sa dinhmun hmuhlawk dan**

Khua a lum lai berin 28.2-29.9^oC leh a vawh lai berin 17.4-18.3^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 91-99% leh a hniam lai 51-89% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **21.00mm** ani. (Source- **Mosdac.gov.in**)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-28^oC a ni ang a. A vawh lai ber in 20-21^oC ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 68-85% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 74.0mm

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
<p>Serthlum</p>	<p>Vegetative stage</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
<p>Oil palm</p>	<p>A than lai/a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.



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<p>Balhla</p>	<p>A than lai/ a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. ✚ Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
<p>Lakhuihthei</p>	<p>A than lai</p>		<ul style="list-style-type: none"> ✚ Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. ✚ Lakhuihthei kung chu thal laiin ni 20-25 inkar ah tui vawi 5/6 pek tur. ✚ Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. ✚ Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
<p>Lakhuihthei</p>	<p>A par lai</p>		<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



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			<p>ang.</p> <ul style="list-style-type: none"> ✚ 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"> ✚ 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	<p>1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnah tui tha taka pek tur.</p>	<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		<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 emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlath a tuh in lei panggai a vur leh tur.
Tomato	A chin dan		<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).



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			<ul style="list-style-type: none"> ✚ 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 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		<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



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		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ 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)	• 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)	• Black Quarter Vaccine (BQ) ✚ 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: Kolasib

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/English

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	17	14	13	5	4
Max Temp (°C)	29	28	29	29	30
Min Temp (°C)	21	21	21	21	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	99	100	99	99	98
Min RH (%)	70	81	76	87	71
Wind Speed (Kmph)	4	2	0	2	2
*Wind Direction	S-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

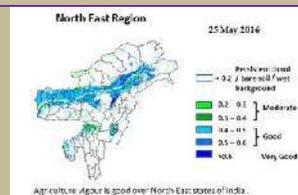
The temperature range for maximum and minimum were 26.2-28.1°C and 20.6-22.0°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 89-96% & minimum of 77-96%. Rainfall recorded for the past three days is **47.60mm.** (Source-mosdac.gov.in)

Weather forecast valid from 15th June, 2016 To 19th 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 21-22°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 70-87%. Wind direction would be southeasterly to easterly with the wind speed of 0-4 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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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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			<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.
			<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		<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		<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		weed near to the plant.	
			<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			<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			<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		<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		<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
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Mizoram Centre, Kolasib- 796081, MIZORAM
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Guwahati)



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Mizoram Centre, Kolasib- 796081, MIZORAM
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District: Kolasib

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/Mizo

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	17	14	13	5	4
Max Temp (oC)	29	28	29	29	30
Min Temp (oC)	21	21	21	21	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	99	100	99	99	98
Min RH (%)	70	81	76	87	71
Wind Speed (Kmph)	4	2	0	2	2
*Wind Direction	S-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**

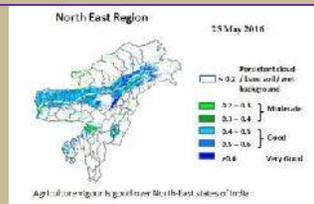
**June 15, 2016 atanga June 19, 2016 sik leh
sa dinhmun hmuhlawk dan**

Khua a lum lai berin 26.2-28.1^oC leh a vawh lai berin 20.6-22.0^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 89-96% leh a hniam lai 77-96% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **47.60mm** 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 berin 21-22^oC ni tur ah beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 70-87% 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: 53.0mm

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
<p>Serthlum</p>	<p>Vegetative stage</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
<p>Oil palm</p>	<p>A than lai/a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.



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<p>Balhla</p>	<p>A than lai/ a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. ✚ Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
<p>Lakhuihthei</p>	<p>A than lai</p>		<ul style="list-style-type: none"> ✚ Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhahchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. ✚ Lakhuihthei kung chu thal laiin ni 20-25 inkar ah tui vawi 5/6 pek tur. ✚ Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. ✚ Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
<p>Lakhuihthei</p>	<p>A par lai</p>		<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



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			<p>ang.</p> <ul style="list-style-type: none"> ✚ 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"> ✚ 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	<p>1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.</p>	<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		<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 emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlath a tuh in lei panggai a vur leh tur.
Tomato	A chin dan		<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).



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			<ul style="list-style-type: none"> ✚ 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 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		<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



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		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ 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)	• 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)	• Black Quarter Vaccine (BQ) ✚ 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: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/English

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	3	0	0	4	8
Max Temp (°C)	28	27	29	30	31
Min Temp (°C)	21	21	22	22	22
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	96	97	96	96	96
Min RH (%)	70	63	73	64	59
Wind Speed (Kmph)	5	4	2	4	4
*Wind Direction	S-E	E	E	E	S-E

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

STATUS OF 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)

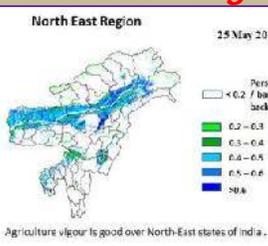
Weather summary of the past three days

Weather forecast valid from 15th June, 2016 To 19th June, 2016.

There are chances of light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 27-31°C and 21-22°C. Maximum relative humidity is expected in the range of 96-97% and minimum may from 59-73%. Wind direction would be southeasterly to easterly with the wind speed of 2-5 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 15.0 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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			<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.
		<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		<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		<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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Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD,
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District: Lawngtlai

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/Mizo

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	3	0	0	4	8
Max Temp (oC)	28	27	29	30	31
Min Temp (oC)	21	21	22	22	22
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	96	97	96	96	96
Min RH (%)	70	63	73	64	59
Wind Speed (Kmph)	5	4	2	4	4
*Wind Direction	S-E	E	E	E	S-E

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

STATUS OF 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 15, 2016 atanga June 19, 2016 sik leh
sa dinhmun hmuhlawk dan**

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-31°C a ni ang a.A vawh lai ber in 21-22°C ni tur ah beisei a ni.RH san lai berin 96-97% leh a hniam lai berin 59-73% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-5 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 15.0mm

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
<p>Serthlum</p>	<p>Vegetative stage</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
<p>Oil palm</p>	<p>A than lai/a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.



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<p>Balhla</p>	<p>A than lai/ a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. ✚ Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
<p>Lakhuihthei</p>	<p>A than lai</p>		<ul style="list-style-type: none"> ✚ Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhahwhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. ✚ Lakhuihthei kung chu thal laiin ni 20-25 inkar ah tui vawi 5/6 pek tur. ✚ Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. ✚ Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
<p>Lakhuihthei</p>	<p>A par lai</p>		<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



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			<p>chhungin a par a chhuah thei ang.</p> <ul style="list-style-type: none"> ✚ 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"> ✚ 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.
Bawrh saiabe	A chin dan	<p>1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.</p>	<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		<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 emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlata tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		<ul style="list-style-type: none"> ✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau



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			<p>leh 15cm a sei ni se).</p> <ul style="list-style-type: none"> ✚ Leitha 10kg leh bawngek 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. ✚ Bawngek 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 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 pahfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur.



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			<ul style="list-style-type: none"> ✚ 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: Lunglei

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/English

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	3	0	0	6	13
Max Temp (°C)	27	26	26	29	30
Min Temp (°C)	21	20	21	21	21
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	98	99	98
Min RH (%)	73	59	73	71	54
Wind Speed (Kmph)	4	2	2	2	2
*Wind Direction	S-E	E	S-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

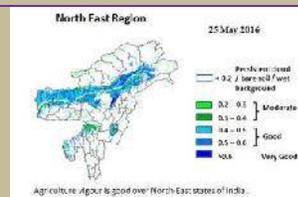
Weather forecast valid from 15th June, 2016 To 19th June, 2016.

The temperature range for maximum and minimum were 29.3-31.5°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)

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 26-30°C and 20-21°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 54-73%. Wind direction would be southeasterly to easterly with the wind speed of 2-4 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.

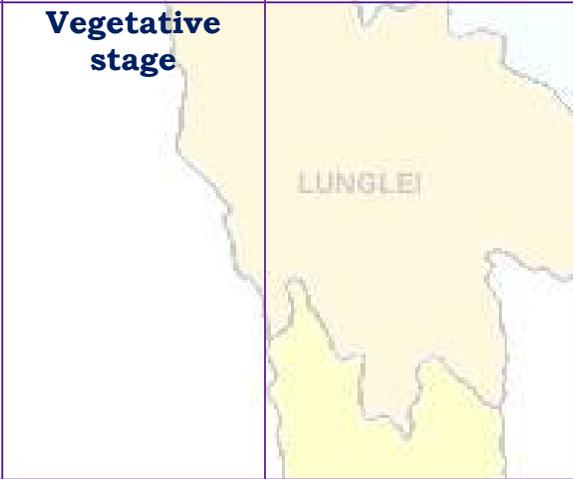


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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Nursery stage		<ul style="list-style-type: none"> ✚ By seeds: Seed should be sown in the nursery 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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			<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.
			<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		<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		<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: Lunglei

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/Mizo

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	3	0	0	6	13
Max Temp (oC)	27	26	26	29	30
Min Temp (oC)	21	20	21	21	21
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	98	99	98
Min RH (%)	73	59	73	71	54
Wind Speed (Kmph)	4	2	2	2	2
*Wind Direction	S-E	E	S-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

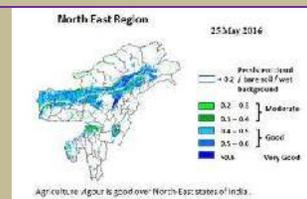
June 15, 2016 atanga June 19, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 29.3-31.5^oC leh a vawh lai berin 19.4-21.5^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 90-99% leh a hniam lai 74-90% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **20.30mm** ani. (Source- **NICRA, AWS**)

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-30^oC a ni ang a. A vawh lai berin 20-21^oC ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 54-73% 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: 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
<p>Serthlum</p>	<p>Vegetative stage</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
<p>Oil palm</p>	<p>A than lai/a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.



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<p>Balhla</p>	<p>A than lai/ a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. ✚ Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
<p>Lakhuihthei</p>	<p>A than lai</p>		<ul style="list-style-type: none"> ✚ Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhahchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. ✚ Lakhuihthei kung chu thal laiin ni 20-25 inkar ah tui vawi 5/6 pek tur. ✚ Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. ✚ Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
<p>Lakhuihthei</p>	<p>A par lai</p>		<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



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			<p>ang.</p> <ul style="list-style-type: none"> ✚ 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"> ✚ 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	<p>1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.</p>	<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		<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 emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlat a tuh in lei panggai a vur leh tur.
Tomato	A chin dan		<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).



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			<ul style="list-style-type: none"> ✚ 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 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		<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



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		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ 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)	• 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)	• Black Quarter Vaccine (BQ) ✚ 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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Guwahati)



District: Mamit

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/English

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	16	9	9	5	6
Max Temp (°C)	29	30	30	30	31
Min Temp (°C)	22	22	22	22	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	98	99	99
Min RH (%)	70	75	69	82	66
Wind Speed (Kmph)	4	2	2	2	2
*Wind Direction	S-E	E	E	E	N-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

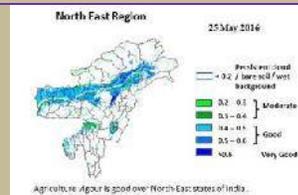
Weather forecast valid from 15th June, 2016 To 19th June, 2016.

The temperature range for maximum and minimum were 29.3-30.8°C and 21.8-22.5°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 85-99% & minimum of 71-88%. Rainfall recorded for the past three days is **31.50mm.** (Source-mosdac.gov.in)

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 29-31°C and 22°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 69-82%. Wind direction would be southeasterly to easterly 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: 45.0 mm

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
<p style="text-align: center;">Khasi Mandarin and acid lime</p>	<p style="text-align: center;">Nursery stage</p>		<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.
<p style="text-align: center;">Oil plam</p>	<p style="text-align: center;">Vegetative stage</p>		<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.
<p style="text-align: center;">Banana</p>	<p style="text-align: center;">Flowering stage</p>		<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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			<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.
			<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		<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		<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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<p>Colocasia</p>	<p>Vegetative stage</p>		<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.
		<p>Corm borer</p>	<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.
<p>Cucurbitaceous crop</p>	<p>Harvesting stage</p>		<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.
<p>Okra</p>	<p>Vegetative stage</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.
<p>Cowpea</p>	<p>Vegetative stage</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.
<p>Brinjal</p>	<p>Flowering stage</p>		<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/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



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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)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Mamit

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/Mizo

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	16	9	9	5	6
Max Temp (oC)	29	30	30	30	31
Min Temp (oC)	22	22	22	22	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	98	99	99
Min RH (%)	70	75	69	82	66
Wind Speed (Kmph)	4	2	2	2	2
*Wind Direction	S-E	E	E	E	N-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

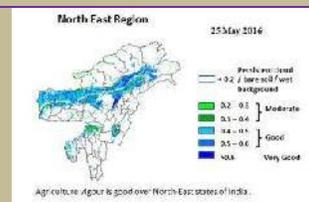
June 15, 2016 atanga June 19, 2016 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 29.3-30.8°C leh a vawh lai berin 21.8-22.5°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 85-99% leh a hniam lai 71-88% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **31.50mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31°C a ni ang a. A vawh lai ber in 22°C ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 69-82% 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: 45.0mm

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
<p>Serthlum</p>	<p>Vegetative stage</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
<p>Oil palm</p>	<p>A than lai/a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.



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<p>Balhla</p>	<p>A than lai/ a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. ✚ Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
<p>Lakhuihthei</p>	<p>A than lai</p>		<ul style="list-style-type: none"> ✚ Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhahchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. ✚ Lakhuihthei kung chu thal laiin ni 20-25 inkar ah tui vawi 5/6 pek tur. ✚ Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. ✚ Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
<p>Lakhuihthei</p>	<p>A par lai</p>		<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



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			<p>ang.</p> <ul style="list-style-type: none"> ✚ 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"> ✚ 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	<p>1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.</p>	<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		<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 emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlata tuh in lei panggai a vur leh tur.
Tomato	A chin dan		<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).



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			<ul style="list-style-type: none"> ✚ 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 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		<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



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		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ 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)	• 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)	• Black Quarter Vaccine (BQ) ✚ 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.



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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District: Saiha

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/English

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	0	0	0	5	10
Max Temp (°C)	30	30	30	29	29
Min Temp (°C)	19	20	21	20	21
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	98	99
Min RH (%)	72	62	79	67	59
Wind Speed (Kmph)	3	2	2	3	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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

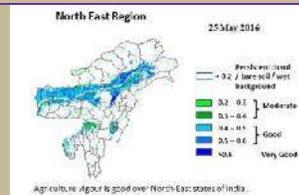
Weather forecast valid from 15th June, 2016 To 19th June, 2016.

The temperature range for maximum and minimum were 26.2-27.3°C and 18.3-20.6°C respectively. Mainly clear sky was observed. Wind direction is southeasterly. Maximum RH observed 89-97% & minimum of 74-96%. Rainfall recorded for the past three days is **19.30mm.** (Source-mosdac.gov.in)

There are chances of moderate to light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 19-21°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 59-79%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 15.0 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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			<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.
			<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		<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		<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: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/Mizo

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	0	0	0	5	10
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Max RH (%)	99	99	99	98	99
Min RH (%)	72	62	79	67	59
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*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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**

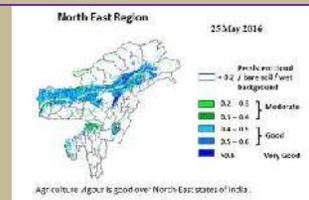
**June 15, 2016 atanga June 19, 2016 sik leh
sa dinhmun hmuhlawk dan**

Khua a lum lai berin 26.2-27.3^oC leh a vawh lai berin 18.3-20.6^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 89-97% leh a hniam lai 74-96% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **19.30mm** ani. (Source- **Mosdac.gov.in**)

Ni 2 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 19-21^oC ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 59-79% 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: 15.0mm

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
<p>Serthlum</p>	<p>Vegetative stage</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
<p>Oil palm</p>	<p>A than lai/a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.



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<p>Balhla</p>	<p>A than lai/ a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. ✚ Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
<p>Lakhuihthei</p>	<p>A than lai</p>		<ul style="list-style-type: none"> ✚ Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhahchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. ✚ Lakhuihthei kung chu thal laiin ni 20-25 inkar ah tui vawi 5/6 pek tur. ✚ Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. ✚ Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
<p>Lakhuihthei</p>	<p>A par lai</p>		<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



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			<p>ang.</p> <ul style="list-style-type: none"> ✚ 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"> ✚ 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	<p>1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnah tui tha taka pek tur.</p>	<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		<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 emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlat a tuh in lei panggai a vur leh tur.
Tomato	A chin dan		<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).



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> ✚ 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 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		<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



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		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ 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)	• 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)	• Black Quarter Vaccine (BQ) ✚ 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: Serchhip

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/English

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	7	7	6	8	17
Max Temp (°C)	28	28	29	28	27
Min Temp (°C)	19	19	20	20	20
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	75	60	81	80	56
Wind Speed (Kmph)	2	2	0	2	2
*Wind Direction	S-E	E	E	E	N-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)

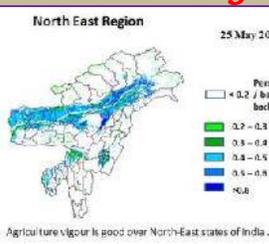
Weather summary of the past three days

Weather forecast valid from 15th June, 2016 To 19th 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 27-29°C and 19-20°C. Maximum relative humidity is expected in the range of 100% and minimum may from 56-81%. Wind direction would be southeasterly to easterly and northeasterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 45.0 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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			<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.
			<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		<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		<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		<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.
			<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		<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		<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		<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		<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/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



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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: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/Mizo

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
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Wind Speed (Kmph)	2	2	0	2	2
*Wind Direction	S-E	E	E	E	N-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- 245.10 mm (185.67mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-45.40 mm (101.58mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

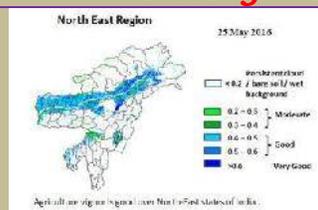
**Ni thum kaltha sik leh sa
dinhmun tlangpui**

**June 15, 2016 atanga June 19, 2016 sik leh
sa dinhmun hmuhlawk dan**

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 19-20^oC ni tur ah beisei a ni.RH san lai berin 100% leh a hniam lai berin 56-81% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 45.0mm

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
<p>Serthlum</p>	<p>Vegetative stage</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
<p>Oil palm</p>	<p>A than lai/a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.



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<p>Balhla</p>	<p>A than lai/ a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. ✚ Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
<p>Lakhuihthei</p>	<p>A than lai</p>		<ul style="list-style-type: none"> ✚ Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhawhchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. ✚ Lakhuihthei kung chu thal lain ni 20-25 inkar ah tui vawi 5/6 pek tur. ✚ Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. ✚ Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
<p>Lakhuihthei</p>	<p>A par lai</p>		<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 thlain hnah 32 a neih hunah pek tur. ✚ Chemical pek atangin ni 55-60



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			<p>chhungin a par a chhuah thei ang.</p> <ul style="list-style-type: none"> ✚ 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"> ✚ 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.
Bawrh saiabe	A chin dan	<p>1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.</p>	<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		<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 emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlata tuh in lei panggai a vur leh tur.
Tomato	A chin dan		<ul style="list-style-type: none"> ✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau



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Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD,
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			<p>leh 15cm a sei ni se).</p> <ul style="list-style-type: none"> ✚ 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 K2O 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 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.



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			<ul style="list-style-type: none"> 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 chhonzawm 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 chhonzawm 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
(Prepared based on District wise Weather Forecast received from IMD,
Guwahati)



District: Aizawl

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/Mizo

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	19	18	16	10	5
Max Temp (oC)	28	28	28	27	29
Min Temp (oC)	20	19	20	20	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	100	99	99	99
Min RH (%)	69	77	77	85	68
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	S-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**

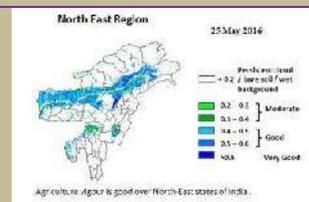
**June 15, 2016 atanga June 19, 2016 sik leh
sa dinhmun hmuhlawk dan**

Khua a lum lai berin 28.3-29.3^oC leh a vawh lai berin 20.4-21.0^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 93-99% leh a hniam lai 45-83% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **25.30mm** 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 berin 19-21^oC ni tur ah beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 68-85% 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: 68.0mm

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
<p>Serthlum</p>	<p>Vegetative stage</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian serthlum huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Serthlum rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.
<p>Oil palm</p>	<p>A than lai/a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar thlak hnuah Bordeaux mixture tah tur ani. ✚ Oil palm rah chu a pian a len tawh hnu ah leh a rawng pawh a hmin rawng a nih hun ah a seng theih ani.



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<p>Balhla</p>	<p>A than lai/ a seng hun</p>		<ul style="list-style-type: none"> ✚ Ni 10-15 inkar danah tui pek tur. ✚ Hnim ro in a kung bul vel chu 8cm a chhah in kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei a, thlai rah a tihthat bakah hlo to tur a veng bawk dawn a ni. ✚ Leitha chu 600:200:100 (g/plt) a pek tur. ✚ Zinc, copper, manganese, iron, boron leh molybdenum te chu tam tham deuh hlek a pek tur ani a. Heng hian huan pumpui chhe tur a veng ani. ✚ A zar chu hunbi nei taka thlak anih chuan a than a titha a, leitha pek tan a ti ngailo bawk a, rannung leh thlai natana dang lakah a veng thei bawk ani. ✚ Balhla rah chu a rah a len hunah leh a rawng eng (yellow) anih hunah a seng theih.
<p>Lakhuihthei</p>	<p>A than lai</p>		<ul style="list-style-type: none"> ✚ Bal, bahra, hmarcha, zikhlum, parbawr, kawlbahra, chana, behlawi chi leh chhahchhi ten nen a chin ho hian loneitu tan a let a hlawkna a pe thin ani. ✚ Lakhuihthei kung chu thal laiin ni 20-25 inkar ah tui vawi 5/6 pek tur. ✚ Lei titha/ti hnawng turin kawlbahra pawh a chin tel theih bawk. ✚ Lei titha/ti hnawng turin a kung leithut ah hnim dah tur.
<p>Lakhuihthei</p>	<p>A par lai</p>		<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



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			<p>ang.</p> <ul style="list-style-type: none"> ✚ 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"> ✚ 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	<p>1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.</p>	<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		<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 emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlata tuh in lei panggai a vur leh tur.
Tomato	A chin dan		<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).



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			<ul style="list-style-type: none"> ✚ 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 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		<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



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		Thrips	taw kanga pek tur. ✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ 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)	• 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)	• Black Quarter Vaccine (BQ) ✚ 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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ICAR RESEARCH COMPLEX FOR NEH REGION
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Guwahati)



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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Aizawl

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/English

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	19	18	16	10	5
Max Temp (°C)	28	28	28	27	29
Min Temp (°C)	20	19	20	20	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	100	99	99	99
Min RH (%)	69	77	77	85	68
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	S-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

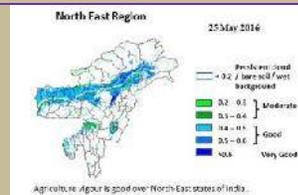
Weather forecast valid from 15th June, 2016 To 19th June, 2016.

The temperature range for maximum and minimum were 28.3-29.3°C and 20.4-21.0°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 93-99% & minimum of 45-83%. Rainfall recorded for the past three days is **25.30mm.** (Source-mosdac.gov.in)

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 27-29°C and 19-21°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 68-85%. Wind direction would be southeasterly to easterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 68.0 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,
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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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			<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.
			<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		<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		<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/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



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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: Champhai

Period: 15 June - 19 June, 2016

Bulletin No: - 610/2016/ Bulletin/English

Date of issue: 14th June, 2016

Parameters	15.06.2016	16.06.2016	17.06.2016	18.06.2016	19.06.2016
Rainfall (mm)	19	16	16	9	14
Max Temp (°C)	27	27	28	27	28
Min Temp (°C)	20	20	20	20	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	98	99	99	99
Min RH (%)	71	71	81	85	68
Wind Speed (Kmph)	2	2	0	2	2
*Wind Direction	S	S-E	N-E	E	E

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

STATUS OF MONSOON- 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

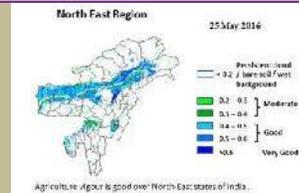
The temperature range for maximum and minimum were 28.2-29.9°C and 17.4-18.3°C respectively. Partially clear sky was observed. Wind direction is southeasterly. Maximum RH observed 91-99% & minimum of 51-89%. Rainfall recorded for the past three days is **21.00mm.** (Source-mosdac.gov.in)

Weather forecast valid from 15th June, 2016 To 19th 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 20-21°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 68-85%. Wind direction would be southerly to southeasterly to northeasterly and easterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 74.0 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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			<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.
			<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		<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		<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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