



# Lemongrass The Mosquito Repellent

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#### Introduction:

Malaria has been a permanent problem in our society especially in our school, as Lindi region is among the highly rated places with malaria. Introducing lemongrass as the repellent to mosquito which cause malaria.



#### Procedure

- 1.Planting lemongrass around classes and dormitories to observe if its smell is able to repel mosquito
- 2. Preparing mosquito repellent solution

#### **Method:**



- Trim off the lemongrass leaves as you will only need the white stalk on the plan.
- Clean and roughly, chop two stalks of lemongrasses in a mortar and pestle or hit it with a heavy pan several times, this will release the grasses essential oils.
- Pour the oil into the jar and add the lemongrass screw the lid on and shake. Pop the jar in a warm sport for 48hrs like window sill.
- Strain the contents of the jar through piece of cheesecloth into a second jar.
- Squeeze the cheesecloth to as much of the infuse oil into the new jar.
- Put the next batch of lemongrass sticks and return it to the warm sport.
- Repeated this until you are happy with the fragrance
- Strain ,pour into dark glass label with a 12months used by date and store
- in a cool dry place



#### **Mosquito Traps:**

1.cut the two plastic bottles in half parts and keep the both parts of each bottle of 1.5 little
2.take the lower part of the bottle A and label it with letter A dissolve the brown sugar in hot water without lemongrass smell, let it cool down to 70f
3.take lower part of the second bottle and label it with letter B" Dissolve the brown sugar(50g)r in hot water (200mls) without lemongrass smell, let it cool down to 70 f

4.Add 1g of yeast in both bottles .the composition of water sugar and yeast former carbon dioxide which attracts mosquitoes allot.

5.Cover the two bottles with a dark wrap and insert it in the top portion upside down like a funnel .place then in a corner in your house.

6.the mixture is good for up to a couple of weeks.

### **Results:**

The classes and dormitory with lemongrasses had no mosquitoes during night's preparations. there lemongrass smell is able to repel mosquitoes if planted along the domestic houses and all area that attract mosquito

The solution with lemongrass oil and coconut oil when applied to skin as lotion is able to repel mosquito for 3 to six hours if it correctly mixed.

the mosquito trap with lemongrass smell (bottle A) had no mosquito while that without lemongrasses (bottle B) had a lot of mosquitoes because they were attracted by carbon dioxide

### **Conclusions:**

Lemongrasses are very effective if used as mosquito repellent trough planting around house and all places which act as mosquito homes such as dam's .it is easy to apply and cheapest way which replaces chemical treatment to students and society as whole.

A part from preventing malaria lemongrass can stop soil erosion if planted in area with erosions because its steam multiplies itself up to 50cm. It is also useful in treating various diseases in human body such as cancer, this is provide by Grunion university of Israel.

## References:

Mwananchi news paper july 19 .2013 www Shroong .com 29/04/2014 www thaifood about .com www.md/ lemongrass

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