



## **Herbal sand abate balls eliminated mosquito larva**

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### **ABSTRACT**

From research on herbal sand abate balls eliminated mosquito larvae aimed to  
1) prevent and reduce the number of mosquito larvae in the Satreesiriket School toilets.  
2) reduce morbidity and mortality from dengue fever and disease caused by mosquito  
larvae. 3) apply local wisdom to benefit. The population was the toilets at Satreesiriket  
School, 50 rooms. The sample group of the research is toilets next to the library 10  
rooms. divided female 5 rooms and male toilets 5 rooms. by simple randomness.The  
research instruments were a satisfaction test of Herbal sand abate ball eliminated  
mosquito larvae. The basic statistic used in data analysis was the mean. The results of  
the research found that the samples were satisfied of Herbal sand abate balls eliminated  
mosquito larvae Overall it was a very agreelevel ( $X=3.73$ ) With satisfaction respectively  
including 1.performance for preventing mosquito larvae ( $X=4.15$ ) , 2.the color of the  
water changed after use ( $X=3.40$ ), 3.unpleasant smell after use. ( $X=3.00$ ) 4 and 5  
respectively. The research results were found. That the samples were satisfied with the  
use of herbal sand abate ballselimited mosquito larvae according to the aimed mentioned  
above.

**Key Word** : Herbal, Sand abate balls, mosquito larvae

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## **Herbal sand abate balls eliminated mosquito larva**

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### **INTRODUCTION**

At the present time the mosquitoes can be found everywhere. Which are divided into large group that carry diseases and do not carry diseases such as Dengue Virus, Japanese encephalitis JE, Malaria. Dangerous mosquito live in marshy water and in SATREESIRIKET School found a breeding ground for larvae. There is an increase number of cases of Aedes Aegypti and deaths from Aedes. The organizers find the problem and come up with a solution to help solve it by applying folk wisdom invented the product "Herbal sand abate balls" contains red lime, ash, ginger, kaffir lime skin and turmeric Let's make product. The above herbs are easy to find, inexpensive and safety for nature.

### **PURPOSES OF THE STUDY**

- 1.prevent and reduce of Aedes aegypti larva in toilets, Satreesiriket School toilets.
- 2.reduce morbidity and mortality from dengue fever and Aedes aegypti larva.
- 3.applies the folk wisdom to be benefit.

### **EXPECTED BENEFITS**

- 1.Reduce the breeding of Aedes aegypti larva.
- 2.Reduce the incidence of dengue fever.
- 3.Increase hygiene with students of Satreesiriket school.

### **IMPORTANT OF THE STUDY**

From the survey of the breeding sites of the Aedes aegypti larvae inside the toilets of Streeririket School. found that when exploring the number of Aedes aegypti larva was high and the substance is Spraying or injecting. It has a breeding ground for larvae Aedes mosquitoes will help reduce the use of chemicals. It is better spraying or spraying of mosquito repellent and breeding number of Aedes aegypti larva and also safe for nature.

### **SCOPE OF STUDY**

#### **population**

Toilets at Satreesiriket School, fifty rooms

#### **Sample**

Toilets near the library, number of rooms divided into 5 female toilets  
5 Male toilets by Simple randomness

### **Tools for data collection**

The satisfaction with herbs sand abet ball kill mosquito balls.

### **Duration**

28 th August Wed.2020 – 11 th November 2020

### **HYPOTHESIS**

Herbal sand abate balls effectively reduce the breeding of *Aedes aegypti* larvae.

### **LITERATURE REVIEW**

From research on Herbal sand abate ballselimied mosquito larva (**jurarat nurat. 2001,online**) with regard to different types of mosquitoes and have different personality. The mosquito-borne disease is dengue fever. (**Department of Disease Control.2019,online**) Malaria (**Faculty of Medical Technology, Prince of Songkla University.2008,online**) and Elephantiasis (**POBPAT.2016,online**) Which these diseases come from mosquito larva Elimination of aedes mosquito larva (**Assoc. Prof. Dr.Prachaya somboon.2014,online**). There are several methods such as spraying *Aedes aegypti* larvae and getting rid of the *Aedes aegypti* larvae. Herbs for protection include turmeric, lime skin, and red lime (**Assoc. Prof. Dr.Prachaya somboon.2014,online**) Can be found locally. Satisfaction test of Likert scale (**Gredingoods.2018,online**) And research work on assessment Selection of red lime innovation to eliminate aedes aegypti larvae **Pantanan kongtong (2012)** And prevention and control of dengue fever **Matuporn ponlapong (2017)**.

### **RESEARCH METHODOLOGY**

#### **Method of the Study**

All 6 members studied the video in classroom and analyzed the problem from the a video. They distinguished the problems into groups and pair them in Force Connection pattern. Then exploring the problems in school which included the problem from learners, lecturers, locations, and environment. All problems were brought from different areas and selecting the topic which was the most interesting topic for all members in order to inspire them for finding the solution. The information was collected in term of problems, factors, and environment relating to nation to community level. Choosing the ideas for solutions, study from the papers and references for ideas, study from papers and reference. Defining the topic which presents the information and found the problem. All 6 members had appointment with lecturer and advisors in order to discuss, plan, and get feedback for the paper's improvement. Describing the background of problem, objective, assumption, scope, and the benefit from the results. It was collected from the book, internet, and memo from the academic report literature. Composing the satisfaction evaluation for 7 questions with 5 levels of satisfaction towards Temefos or Abet ball. Applying improved tool with the sample group in order to follow up the tasks we created. Collecting information by gathering all data together in a pattern. Analyzing information by experiment and revision in order to get the result suitable for the set objective. Concluding the study by collecting the information from the trial the tools used, improved, revised, and presented the tasks.

### Method to collecting Data

Created satisfaction assessment of Herbal sand abate balls eliminated mosquito larvae. Used the theory of Likert Scale and asked for advice from the teachers. Then bring errors to improve and take it to check suitability for the satisfaction test and the mean.

### ANALYZING STATISTICAL DATA

mean of sample By defining the formula as follows

$$\bar{X} = \frac{\sum x}{n}$$

When  $\bar{X}$  Represents the mean of the sample  
 $\sum x$  Represents the sum of all points  
 $n$  Represents the number of samples

### RESULTS FROM DATA ANALYSIS

From the above table found that the sample group was satisfied of Herbal sand abate balls eliminated mosquito larvae at the level most agree ( $\bar{x} = 3.73$ ) which satisfaction, respectively, including 1. Performance for preventing mosquito larvae ( $\bar{x} = 4.15$ ) 2. The color of the water changed after use it. ( $\bar{x} = 3.40$ ) 3. Unpleasant smell after use it. ( $\bar{x} = 3.00$ ) and respectively.

### DISCUSSION

Sand Abet Ball protects against *Aedes aegypti* larvae as a whole to a large extent. This may be because the product style is comfortable form compact size It makes easy to use and makes users satisfied. The form was also included in the herbal anti-mosquito larva, traabetball, which the study authors studied. Research has taken into account the appropriateness, resulting in less excess, less effective and less irritation to the skin. This is different from prevention and removal by spraying or spraying. Thus making the trial user satisfied with the herbs Sand Abet Ball prevents mosquito larvae **Which is in line with the research of Patya Somboon (2014)** studied About thorny and biennial herbaceous plants Which have thorns and lums, the grass family has aromatic oils Evaporation that can handle both mosquitoes, lizards, tiger mosquitoes, chimneys and annoying mosquitoes, and helps prevent mosquitoes to lay their eggs again In accordance **with the research of Tatiya Vichaidit** It was found that the spray, the injection and the eradication of *Aedes aegypti* by the use of *aedes aegypti* larvae through these methods has had a negative effect on people, giving the concept of elimination and prevent mosquito larvae by using abet sand. By the trial in the volunteer group. In the village and the group Abate balls sand is therefore very satisfying because it does not produce an unpleasant odor like spray and spray. Not dangerous to life either. The organizers therefore proposed the concept of using abate sand from the distribution of village volunteers by changing the of chemical phosphates to the introduction of herbs that are readily available locally. Which chemical phosphates have Effects such as overstimulating the system Causing dizziness, nausea, vomiting, back pain And abdominal pain and if taken in excessive amounts can be fatal.

## **SUGGESTIONS**

### **Suggestions for use**

1. Abet ball sand herbs should be added 1 bag per 20 liters of water.
2. Store in a ventilated area.

### **Suggestions for further study**

1. Study Kan grab herbs that can get rid of *Aedes aegypti* larvae.
2. Study Kan grab on the preservation of herbal products, sand abet ball, prevent mosquito larvae.

### **Public Services**

1. Disseminate knowledge of Should use Herbal sand abate balls eliminated mosquito larvae that does not use chemicals.
2. Presentation and practice in real space are involved in the use of the product.



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# **APPENDICES**





**Before**



**After**



The Satisfaction Survey of Education and Knowledge Building Project (IS1)

Subject “The satisfaction with the Herbal sand abate balls prevent mosquito larvae”

**1. General information**

1. status  teacher  personnel  student  other .....
2. Agency / Affiliated faculty.....

**2. Satisfaction level data for users Herbal sand abate balls prevent mosquito larvae**

**Statement** Check your satisfaction by putting ✓ sign in the level of satisfaction  
**Assessment topic**

Assessment topic	Satisfaction				
	Excellent (5)	Good (4)	Average (3)	Below Average (2)	Poor (1)
1. Effective in preventing mosquito larvae					
2. The color of the water has changed from the original after using herbs. Sand Abet Ball prevents mosquito larvae					
3. The unpleasant smell caused by the use of herbs. Sand Abet Ball prevents mosquito larvae					
4. The coagulant within the water.					
5. Skin irritation after using the herbs. Sand Abet Ball prevents mosquito larvae					

**More suggestions**

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Assessment list	X	Satisfaction level
Measurement and evaluation		
1 Effective protection against mosquito larvae	4.15	Agreelavel
2 the color of the water has changed from the original	3.40	Moderate
3 unpleasant smell after use	3.00	Moderate
4 coagulants within water	2.82	Moderate
5 Skin irritation after use	2.65	Moderate
Total	3.00	Moderate
Overall	3.73	Agreelavel