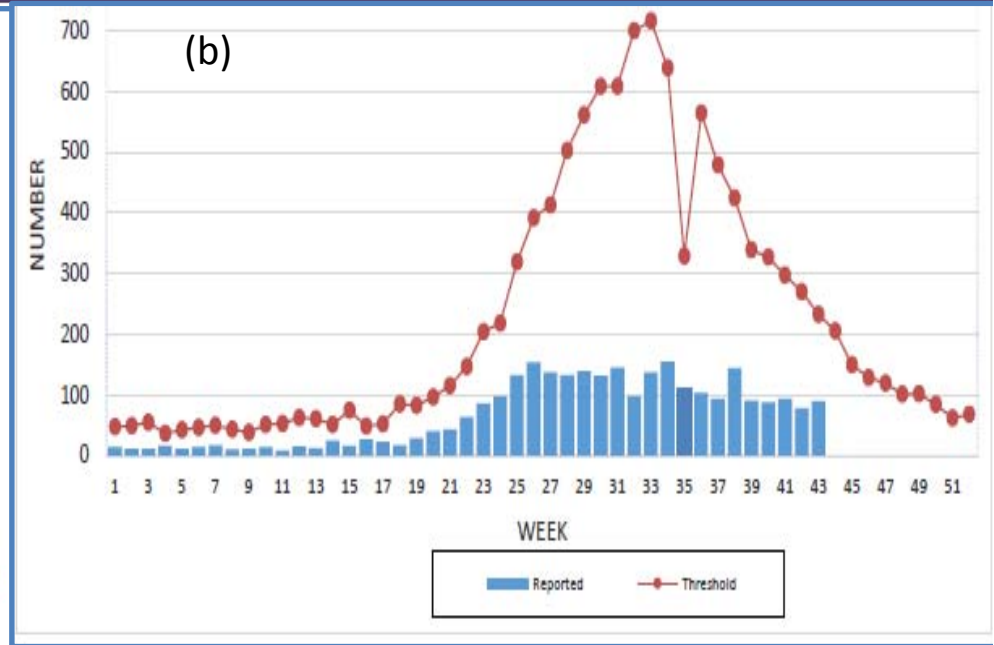
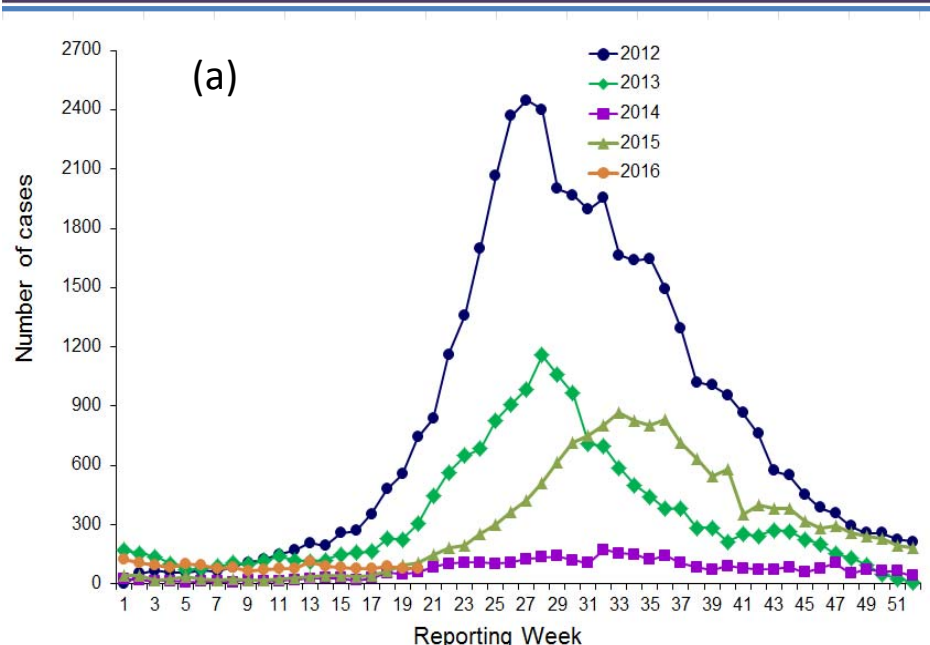


**Dynamics Of *Aedes aegypti* Larvae  
In  
A Rural Area Of Rattankiri And  
Mondukiri Provinces, Cambodia**

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**RATIONAL: Cambodia-Thailand malaria collaborative project has lunched under initiative of Princess Maha Chakri Sirindhorn and SomDeh Hunsen since 2007. Recently Dengue Fever was also included as one of the diseases target**



As of 31 October 2017, a total of 2,884 suspected dengue cases, including dengue haemorrhagic fever and dengue shock syndrome were reported in 2017, compare to 2014-2016. *Aedes aegypti*, the major vector of dengue, breeds in water storage containers and man-made waste-containers thus affecting dengue risk overtime

SOURCE: <[http://www.wpro.who.int/emerging\\_diseases/DengueSituationUpdates/en/](http://www.wpro.who.int/emerging_diseases/DengueSituationUpdates/en/)>

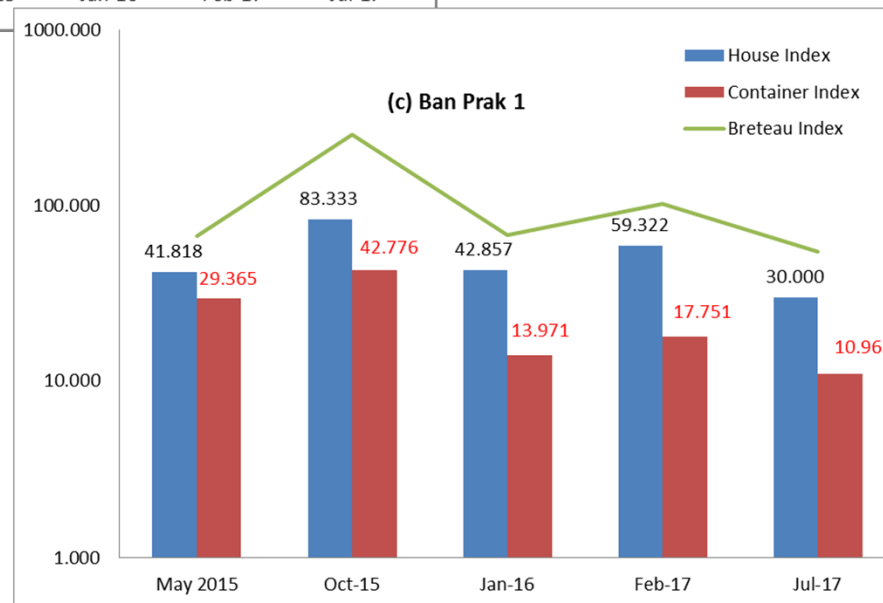
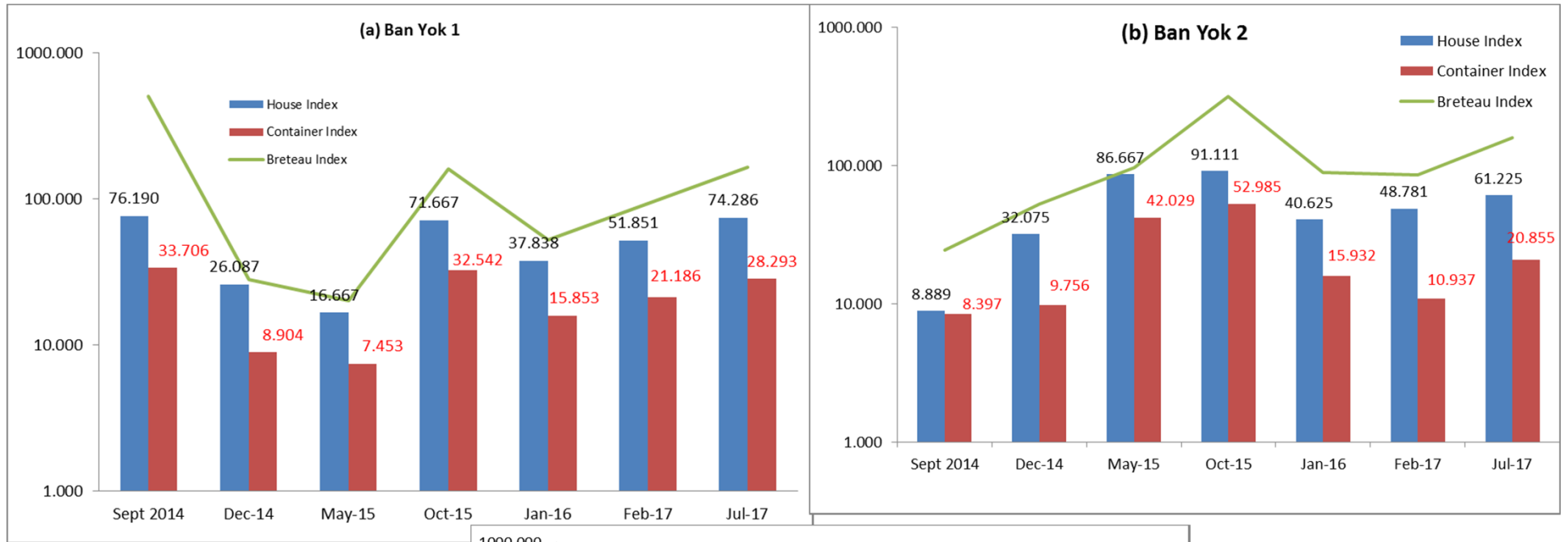
## Objectives

To investigate the presence of Aedes mosquitoes and its dynamics over the time periods.

## Materials & Methods

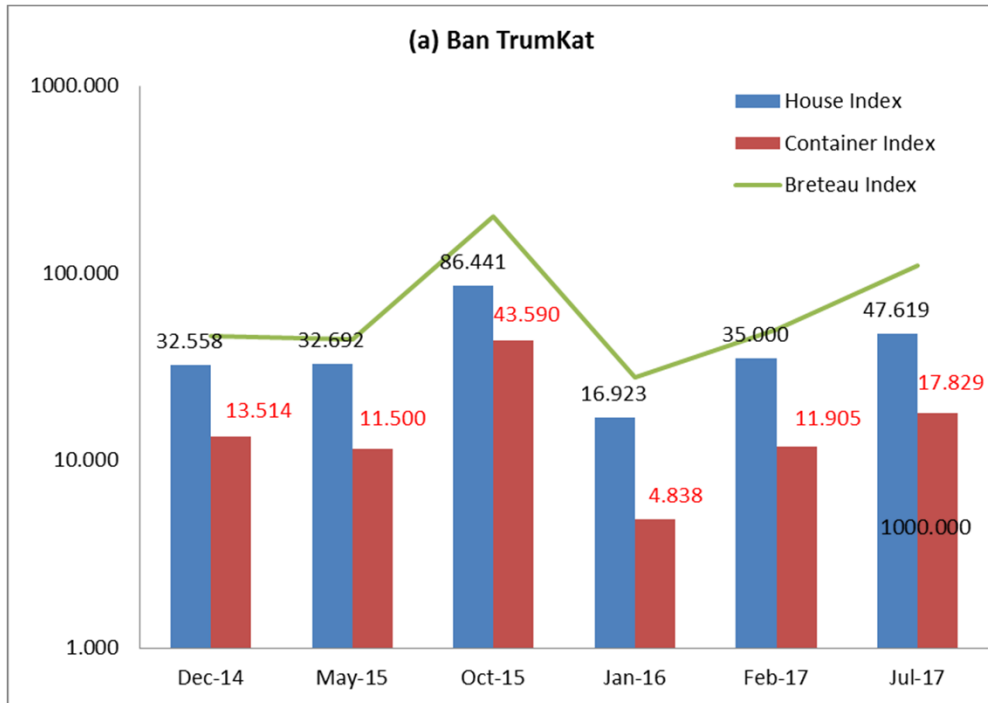
- A Visual Larval survey were performed by Bare foot Entomologist in 2&3 Villages in Mondulkiri and Rattanakiri provinces, in wet and dry seasons from 2014 to July 2017.
- Immature mosquitoes were identified to species. The Larval Index was used to determine the Mosquito dynamics in each locations.

# Aedes larval Indices, HI, CI, BI in Rattanakiri Province, Ban Yok 1 (a), Ban Yok 2 (b) and Ban Prak 1 (c) , 2014-2017

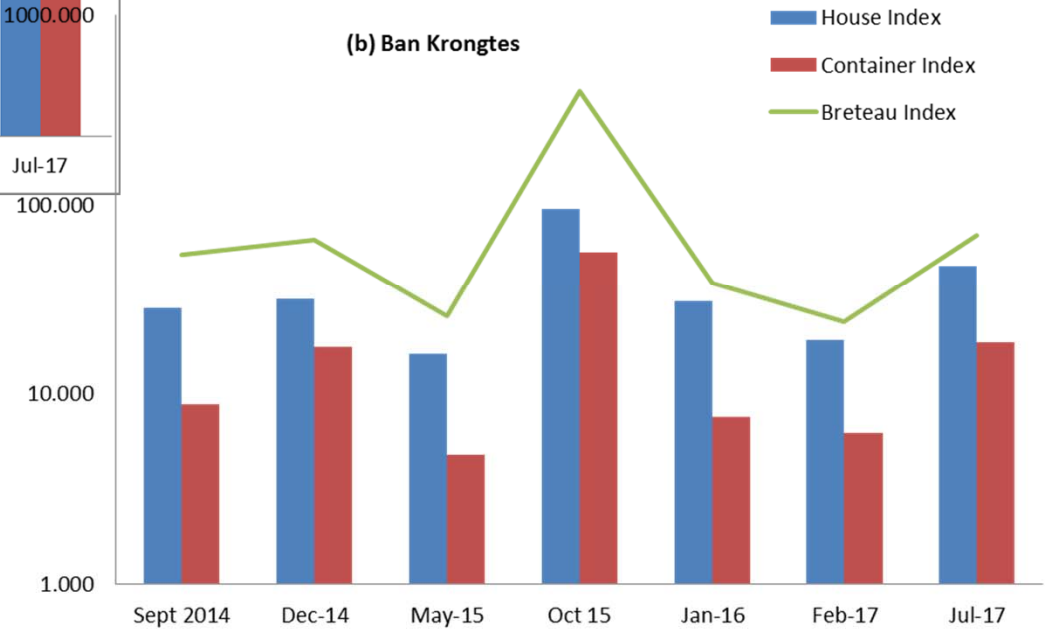


**RESULTS**

# Aedes larval Indices, HI, CI, BI in Mondulkiri Province, Ban TrumKat (a) and Ban Krongtes (b), 2014-2017



## RESULTS



## CONCLUSIONS

- *Aedes aegypti* and *Ae albopictus* were abundantly distributed and expanded their range in all the study areas of Rattanakiri and Mondulkiri. More recently, *Ae. aegypti* was found at 3.54 times in Rattanakiri, predominantly higher abundance than usual, while *Ae. albopictus* showed more abundance in Mondulkiri.
- The larval index indicated a warning sign that a Dengue outbreak can occur at all time. To reduce dengue risk and to achieve control of these mosquitoes, the integration of different methods with community participatory should used

# Thank you

