

## The Study of Dengue Vector Distribution in Taiwan from 2009 to 2011

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### Abstract

This study was a part of dengue vector surveillance from 2009 to 2011 conducted by requesting local health bureau to submit at least 100 *Aedes* larvae or pupae for species identification to understand the distribution of dengue vectors in Taiwan. Additionally, 2 locations each in low and high sea level were also included each year from northern, central, southern, and eastern Taiwan for larval and adult survey. A total of 1,105,408 mosquito larvae or pupae and 9,667 non-mosquitoes were identified, which collected from 7,141 villages, 365 townships, and 22 counties/cities. Among the 77,470 found of *Ae. aegypti*, these were existed only in Tainan, Kaohsiung, Pingtung, Taitung, and Penghu. Compared to the previous surveys on 1988-1996 and 2003-2004, the distribution of this species was decreased in 31 townships and increased in 6 townships, including Gaoshu Township, Pingtung County; Nanhua, Baihe, and Danei Districts, Tainan City; and Wangan and Xiyu Townships, Penghu County. Among the 735,235 found of *Ae. albopictus*, these occurred in all surveyed townships except Juguang Township, Lienchiang County with the sea level up to 1,760 m.

**Keywords:** Dengue vectors, *Aedes aegypti*, *Aedes albopictus*, distribution, Taiwan

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