

**RISK ZONE MAPPING OF 2010 DENGUE FEVER AND DENGUE HEMORRHAGIC  
FEVER CASES IN THE PROVINCE OF ILOILO BASED ON LAND COVER**

A Special Problem Paper

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## **ABSTRACT**

Dengue is considered as one of the most important vector-borne diseases in many tropical and subtropical countries. Iloilo Province had 8201 cases in 2010. Heterogeneity in the risk of disease transmission results from spatial heterogeneity in both land use and land cover. Thus, the present study was conducted to identify the risk zones of Dengue Fever and Dengue Hemorrhagic Fever in Province of Iloilo in 2010 based on land cover types by using GIS software. Results of the study show that all land covers in the 6<sup>th</sup> district pose moderately low risk on dengue incidence. In the case of the 1st district of Iloilo, on the other hand, water bodies have the highest probability of dengue incidence, while the rest of the districts (2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>), built-up areas have the highest probability of dengue incidence. The land cover type in Iloilo, therefore, with the highest risk for dengue incidence are built up areas due to its high population density, multitude of households and stagnant water areas.