

Distribution of the Dengue Epidemic Past and Present Prospects on Karaitivu, Ampara

S.Mathanraj
Eastern University, Sri Lanka.
mathanrajs@esn.ac.lk

Dengue fever is a common viral infection in tropical and subtropical regions that is carried and spread by mosquitoes. Sri Lanka is facing an unprecedented outbreak of dengue fever, which has resulted in more than 100,000 cases and claimed almost 300 lives so far this year. The major objective of this study is to plot the dengue severity map using previous dengue events. The gathered sample data were mapped using model and distance analysis tool in GIS application. The finding of the study are the highest people around 37 affected by dengue fever in 2016 and the lowest around 4 in 2014. Severity level was very high below 100m of breeding zone approximately 413878.6 Sq. m. in 2013, between 100m and 200m also very high sensitivity region around 702119.0 Sq. m. and between 200m to 300m zone too very effective region around 819407.2 Sq. m. as dengue spreading zone. To minimize the spreading level has to take necessary action through the dengue prevention unit.

Keywords: breeding zone; mosquitoes, severity level; viral infection