MAP SHOWING LANDSLIDE SUSCEPTIBILITY IN THE COMERIO MUNICIPALITY, PUERTO RICO

ABSTRACT

The purpose of this study is to develop a Landslide Susceptibility Map of the Comerío Municipality, Puerto Rico, through the application of geographic information systems (GIS) and other techniques. Landslide susceptibility is evaluated in the context of the landslide occurrence database and various factors including land use, geology, topography, and the presence of potential triggers.

INTRODUCTION

Comerío is a municipality located in the eastern part of Puerto Rico. The study area includes a variety of land use types including agricultural, residential, and forested areas. The main goal of this study is to determine the areas of highest landslide susceptibility for the Comerío Municipality.

METHODS

A landslide susceptibility map was developed for the Comerío Municipality, Puerto Rico. The method involved the integration of various factors into a GIS model. The factors included land use, geology, topography, and potential triggers. The result was a landslide susceptibility map that shows the areas of highest, medium, and low susceptibility.

CONCLUSIONS

The developed landslide susceptibility map can be useful for planners and decision makers in the Comerío Municipality. It can help in the development of policies to minimize landslide occurrence and mitigate the effects of landslides. The map can also be used for educational purposes to raise awareness about landslide hazards in the area.

REFERENCES


Note: The map and data are for illustrative purposes only and should not be used for decision making.