

EVALUATING THE SITUATION AND PROPOSING SOLUTIONS TO MINIMIZE THE RISK OF LANDSLIDE IN TAM DUONG, LAI CHAU

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Summary

In order to assess the extent of landslide and propose solutions to reduce it in Tam Duong district, we have measured 31 specific points of landslide in the field and interview the local people. After collecting data, excel and SPSS software were used to analyze the correlation between the vegetation elements and the erosion volume while ArcGIS software was used to map the forecasting of landslides risk points in the study area. The main results include: (1) In 2018, there were 84 points of landslide in the whole district with small to medium scale. Landslides have caused huge economic losses and claimed human life; (2) Landslides in Tam Duong, Lai Chau occurred due to the main dominance reason of elevation, soil thickness characteristics and porosity; (3) According to calculations, the region was at risk of landslides accounting for 7.4% of Tam Duong district; (4) Therefore appropriate technical measures and planning are needed to cope with and mitigate the risk of landslides.

Keywords: *Landslide, landslide map, landslide situation, Tam Duong district.*