

[1]王萌,乔建平.基于GIS的沐川县滑坡危险度区划[J].自然灾害学报,2009,01:174-179.

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Title: GIS-based hazard zoning of landslide in Muchuan County

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摘要: 基于GIS技术及统计方法,对沐川县滑坡进行了区划研究.从与滑坡发育相关的因子中提取了5个本底因子:地层、坡度、坡形、高差和坡向,以此反演计算了研究区环境本底因子对滑坡的贡献和本底因子的权重.采用贡献率权重叠加法对研究区进行危险度区划,其中高危险度区114.7km²,中危险度区229.9km²,低危险度区100.9km².经与野外调查结果对比检验,区划可靠性达到90%以上.

Abstract: This paper gives a quantification assessment to 30 landslides in Muchuan County by GIS technology and statistical method and got 5 environmental factors related to landslide:stratum,gradient,slope shape,relative height and aspect of slope.The contribution of environmental factors in study area to landslide and the weights of the environmental factors were calculated inversely.The hazard zoning was carried out in study area by use of superposition method for contributin rate weight.

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