appicability of Mora- Vahrson landslide hazard zonation model in Ciaroodbar watershed

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The applicability of Mora-Vahrson landslide hazard zonation model in the Ciaroodbar watershed, Iran M. Koorkinejad1 (1)Islamic Azad University , Baft branch , Department of Natural Resources , Baft , Kerman, Iran, e-mail: Masood_kn@yahoo.com

1 ABSTRACT Identification of regions having potential for landslide occurrence is one of the basic measures in natural resources management. Different landslide hazard zonation models are proposed based on the environmental condition and goals. In this research the applicability of the Mora-Vahrson Landslide hazard zonation model is investigated in the Ciaroodbar watershed. For doing this, existing landslides have been identified and an inventory map made. The topographical map(1:50000) was divided into 514 cells unit. The landslide hazard zonation map is based on the Mora-Vahrson. The level of similarity potential hazard classes and figures of this model were compared with the landslide inventory map in the SPSS and Mini-tab environments. Results of research showed that there is no significant correlation between the potential hazard classes and figures with the number of landslides, area of landslides, as well as the product of the number and area of landslides in the Mora-Varhson model. The Mora-Varhson model does not seem very suitable for application in the Ciaroodbar watershed.