

عنوان مقاله:

Assessment of Factors Influencing Occurrence of Izeh Plain Watershed Springs

محل انتشار:

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خلاصه مقاله:

The Izeh watershed plain with considerable limestone units is located in the Zagros folded Territory. The Asmari Limestone Formation is the most significant water-bearing one in the Izeh area, where various springs are found in this karstic formation. In this investigation the effective factors governing the development of the springs such as stratigraphy, structure and topography have been assessed, and in this regard geology and structural evaluation, including folds, faults and fractures, have been carried out with the help of remote sensing and GIS facilities. The achieved results indicate that a promising correlation exists between spring locations and the distance from fractures, and similarly a promising correlation is noticed between spring occurrence and fractures frequency. The water temperature and its seasonal fluctuation reflect diffuse fractures and diffuse flow systems. The assembled data also show a relation between the density of fractures and saturation index. The seasonal variation of their temperature is emphasized on diffuse and diffuse-fracture flow.

کلمات کلیدی:

spring, Izeh, Asmari limestone, Fracture, Karst

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