

## عنوان مقاله:

(Studying the process of flooding by the permeability of geological formations (Case Study: Artun watershed

## محل انتشار:

دومین کنفرانس بین المللی مخاطرات محیطی (سال: 1392)

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## خلاصه مقاله:

Determining the permeability and the potential of runoff creation by geological formations in order to estimate the risk of flooding in watershed for construction of engineering structures is important to prevent flooding and soil loss. Due to the high importance of flooding parameter in soil conservation and erosion prevention so the relative control of this matter has an important role in integrated watershed management. The purpose of this study is investigation the flooding situation of Artun watershed, according to the geological condition of the watershed. Artun watershed is one of the southward sub-watershed of Taleqan basin which is located in Alborz province. On the basis of this, the geological map of the basin was prepared and the type of stones, existed formations and their area were specified. The formation permeability maps were prepared using geological maps and finally based on the permeability or infiltration, watershed flooding map was obtained. According to this matter that the northern part of basin consists of EKV lithological units, being resistant against erosion is the positive point in terms of biology, however the high flooding is its weakness. In the central and southern parts of the basin gy1 and Ngm units are seen that both units are impermeable and highly fertile to flood. The units of the Quaternary formations are located in sectors of the basin with high permeability of the flood that have lowered the flood fertility of its surrounding areas. Due to the large percentage of the area has assigned to the units which are sensitive to erosion and have high permeability, so designing and carrying out corrective measures are necessary to protect it.

## کلمات کلیدی:

Flooding; Permeability; Geological formations; Artun watershed

## لینک ثابت مقاله در پایگاه سیویلیکا:

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