

عنوان مقاله:

ASSESSING QUALITY ZONING OF GROUNDWATER RESOURCES OF DEZ PLAIN FOR AGRICULTURE WITH GIS

محل انتشار:

سومین کنگره بین المللی نمک زدایی از آب شور "کاربرد فناوری های پیشرفته در تصفیه آبهای غیرمتعارف برای مناطق تحت تنش آبی" (سال: 1400)

تعداد صفحات اصل مقاله: 7

نویسنده:

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خلاصه مقاله:

Groundwater quality management in arid and semi-arid regions is of great importance. In studies groundwater, the study of water quality is of particular importance and the excessive increase of ion concentrations, the use of water in agriculture and other uses, it faces severe limitations (Dehghani et al., 2012). Preparing a map during salinity changes can be an important step in the proper utilization of water resources. In addition, the study of changes in the chemical properties of groundwater plays an important role in managing the use and exploitation of groundwater. Determining an appropriate method for data interpolation and zoning requires a large amount of qualitative and geographical data. Meanwhile, Geographic Information System (GIS) with the capacity of storage, retention mechanism, analysis, retrieval, display and preparation of appropriate outputs, is a suitable tool that can help researchers achieve the appropriate intermediate method. And help to understand hydraulic and environmental conditions (Ng et al., 2005). Gallichand et al In a study, different methods for mediating salinity and soil alkalinity were investigated and showed that kriging method is a suitable method for intermediation (Gallichand et al 1992). Ostovari Spatial variations examined the groundwater quality indicators of Lordegan plain for drip irrigation in 32 wells and in comparison between kriging and inverse distance methods, concluded that kriging method is more accurate (Ostovari, 2011). In a study, Qaderi et al. Conducted an extensive analysis of the groundwater aquifer of Chardoli plain using 66 samples taken from this aquifer. In this study, they introduced GIS as a suitable tool to identify areas with good groundwater quality for drinking and agricultural use (Ghaderi et al., 2014). In this research, using GIS software and Kriging statistical method, the quality of 93 agricultural wells in Dez plain was investigated. Preparation of EC, Na, SAR and TDS salinity maps Groundwater location of areas exposed to salinity were among the results of this study.

کلمات کلیدی:

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