

Evaluation of the Quality Water Irrigation in Region of Lioua (Biskra), Algeria

Authors : F. Hiouani, M. Henouda, A. Masmoudi, M. Rechachi

Abstract : The objective of this study was to evaluate the quality of irrigation water of some underground water resources in the region of Lioua (Biskra, Algéria). Analysis of cations (Ca^{++} , Mg^{++} , Na^+ , K^+), anions (Cl^- , SO_4^{--} , CO_3^{--} , HCO_3^- , NO_3^-), pH and electrical conductivity (EC) of ten water samples taken during March 2015. The resulted showed that water samples are designated salty and very salty. On the other hand, average SAR values show that there is no alkalinity risk of soil. According to Riverside diagram water samples are grouped into five classes (C3-S1, C4-S1, C4-S3, C5-S2 and C5-S3).

Keywords : groundwater, irrigation, quality, lioua biskra

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