CHARACTERIZATION OF IRRIGATION QUALITY OF GROUND WATER IN GUJRAT DISTRICT

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ABSTRACT

For the provision of guidelines to farmers and researchers for better crop production by adopting water management practices, a detail study was carried out. A total of 680 advisory water samples were collected / received, analysed and classified for EC (Electrical conductivity), SAR (Sodium adsorption ratio) and RSC (Residual sodium carbonate) during the years July 1986 to June 2002. Out of 680 water samples, 40 percent were fit, 23 percent marginally fit and the rest of 37 percent unfit according to International Standards whereas 33 percent were fit, 19 percent marginally fit and the rest of 48 percent were unfit according to standards given by the Soil Fertility Punjab. In tehsils, Gujrat, Kharian and Sara-I-Alamgeer, 44, 30, and 100 percent were fit, 25, 22 and 0 percent marginally fit and the rest of 31, 48 and 0 percent unfit respectively according to International Standards whereas 39, 21 and 100 percent were fit, 21, 16 and 0 percent marginally fit and the rest of 40, 63 and 0 percent unfit respectively according to standards given by the Soil Fertility Punjab.