

Gündoğdu KS, Değirmenci H (2006) WATMAPGIS: Preparing of Groundwater Maps by Using Geographical Information Systems. Journal of Agronomy 5 (2): 262-266.

Abstract

For a sustainable irrigation, it is necessary to monitor and evaluate fluctuations of groundwater level and salinity. In this study, WATMAPGIS (creating of the groundWATER MAPs using Geographical Information System) software, which was prepared by in order to create groundwater observation maps on environment of ArcInfo GIS software, will be presented. Program, by using groundwater maps that have been created by State Hydraulic Works of Turkey (SHW) up to now and created by hand, is capable to create different kinds of groundwater maps automatically such as; Depth-to-Watertable (Isobath) Map in Intensive Irrigation Season (IMII), Critical Highest Isobath Map (CHIM), Critical Lowest Isobath Map (CLIM), Electrical Conductivity Map (ECM), Water-table Contour Map (WCM) and Seasonal Probable Problematic Areas Map (PAM). By using WATMAPGIS program, groundwater monitoring results can be mapped and made questionable rapidly. Thus, fluctuations of groundwater on a monthly basis can be rapidly displayed.