عنوان مقاله:

A Simulation Model for Evapotranspiration of Applied Water

محل انتشار:

ششمین کنفرانس بین المللی مهندسی عمران (سال: 1382)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

The SIMETAW program was written to provide a new and innovative tool for estimating evapotranspiration of applied water (ETAW), which is a seasonal estimate of the water requirement for evapotranspiration of a crop minus any water supplied by effective rainfall. ETAW information is needed to determine consumptive use requirements. In addition to using measured weather data, the SIMETAW program simulates daily weather data from monthly climate data. Simulation of daily weather data where only monthly means exist is a good tool for filling missing data points. In addition, the simulation program is useful for studying the effects of climate change on ETAW. All of the ETAW calculations are done on a daily basis, so the estimation of effective rainfall and, hence,ETAW is greatly improved over earlier methods. In addition, the use of the widely adopted Penman-Monteith equation for reference evapotranspiration (ETo) and improved methodology to apply crop coefficients for stimating crop evapotranspiration is used to improve ETAW accuracy

کلمات کلیدی:

Evapotranspiration, Crop Coefficients, Crop Water Requirements, Evapotranspiration of Applied Water