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Abstract
Evapotranspiration (ET) is one of the most important of parameters in water cycle. This parameter changes in climate different conditions. In this manner the probability of ET is important for design of irrigation systems. This study investigated climate effect on evapotranspiration changes procedure. Thus ET was estimated by Hargreaves-Samani (H-S) method in the some of regions: Gorgan(semi wet,), Gonbad (semi dry) , Maraveh-Tappeh (semi dry to dry). Then diagrams of ET were drawn for different probabilities. Investigation shown that if climate was drier, irrigation periods increased and difference of ET averages decreased.

Keyword : Evapotranspiration, Probability, Hargreave-Samani method, Climate, water use.