

Estimation of reference evapotranspiration for Parbhani district

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■ **ABSTRACT** : Estimation of reference evapotranspiration (ET_0) is essential for planning the irrigation water use in arid and semiarid region. Estimation of reference evapotranspiration (ET_0) is an important part of agricultural water management in local and regional water balance studies. At the field scale, estimation of reference evapotranspiration (ET_0) is important in irrigation planning and scheduling and is an integral part of field management decision support tools. This study focuses on estimating the reference evapotranspiration (ET_0) using 32 years meteorological data by CROPWAT software. The FAO-56 Penman–Monteith method has been recommended as the standard method for estimating reference evapotranspiration (ET_0) was used.

■ **KEY WORDS** : Evapotranspiration, CROPWAT, Agricultural water management

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