

## DECIDE THE VALUE OF A SUITABLE METHOD IN ESTIMATING EVAPOTRANSPIRATION FOR CROP WATER REQUIREMENT

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### ABSTRACT:

Tamilnadu is a water scarce state deficient in both ground water and surface water. Efficient water management techniques are required for maximizing yield of any crop that requires estimating crop water requirement in a reliable manner and realistic manner. Evapotranspiration is an essential component of the hydrological circle and its accurate estimation is necessary for many hydrologic studies. Reference crop Evapotranspiration (ET<sub>o</sub>) is independent of crop type and depends on climate and is a basis for computation of water requirements for crops it also plays significant role for the distribution of water on the earth surface and a major determinate variable in water cycle. A way of estimating Evapotranspiration may provide an insight to crop water requirement. The demand of the any crop can be computed by multiplying reference crop Evapotranspiration with crop co-efficient. To date, a lot approach are available for ET estimation, each method has its own advantages and disadvantages. Assessing a suitable methodology is focus of this paper.

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