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Crop evapotranspiration - Guidelines for computing crop ...

This publication presents an updated procedure for calculating reference and crop evapotranspiration from meteorological data and crop coefficients. The procedure, first presented in FAO Irrigation and Drainage Paper No. 24, Crop water requirements, in 1977, allows estimation of the amount of water used by a crop, taking into account the effect of the climate and the crop characteristics.

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Issue : 56 Extent : 300 p. Publisher : FAO ISBN : 92-5-104219-5 All titles : " Crop evapotranspiration. Guidelines for computing crop water requirements "

Crop evapotranspiration. Guidelines for computing crop ...

Crop evapotranspiration - Guidelines for computing crop water requirements - FAO Irrigation and drainage paper 56 By Richard G. Allen Utah State University Logan, Utah, USA Luis S. Pereira Instituto Superior de Agronomia Lisbon, Portugal Dirk Raes Katholieke Universiteit Leuven Leuven, Belgium Martin Smith

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the evapotranspiration for a given time period is determined by deducting the drainage water, collected at the bottom of the lysimeters, from the total water input . (2) Method on the basis of reference crop evapotranspiration This method have two steps i.Computing reference crop evapotranspiration ET_0 from meteorological data

CROP WATER REQUIREMENTS AND ITS CALCULATION

(2) $ET_c = ET_o * K_c$ where ET_c is the Actual evapotranspiration; ET_o is the Reference evapotranspiration and K_c is the Crop coefficient. Crop coefficient is varying according to growth stage and also affected by the growth stage length. The tabulated values were modified to the real values of crop coefficient using Eq. .

Estimation of Evapotranspiration ET_c and Crop Coefficient ...

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In conjunction to satellite interpreted data, climate and soil data are also integrated in GIS platform. CROPWAT model is used to determine the crop evapo-transpiration (ET_c). There are 11 Water User's Associations (WUA) in the command area and under which 13 canal blocks are delineated.

Allen, E.A. (1998) Crop Evapotranspiration Guidelines for ...

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and crop evapotranspiration. They can be used for computing crop water requirements for both irrigated and rainfed agriculture, and for computing water consumption by agricultural and natural vegetation.

FAO Irrigation and Drainage Paper

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Guidelines for computing crop water requirements}, author= {R. Allen and L. Pereira and D. Raes and M. Smith}, year= {1998} } This publication presents an updated procedure for calculating reference and crop evapotranspiration from meteorological data and crop coefficients.

Crop Evapotranspiration Guidelines For Computing Water

The reference evapotranspiration (ET_0), as introduced by Allen et al. (1998), denotes the evapotranspiration from a hypothesized reference crop with the height of 12 cm, surface resistance of $70 \text{ s}\cdot\text{m}^{-1}$ and albedo of 0.23. The ET_0 estimation is needed for the computation of irrigation water requirements, water resources management, hydrology, environmental issues and determination of the water budget, especially under arid conditions where water resources are scarce and fresh water is ...

Comprehensive assessment of 12 soft computing approaches ...

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Chapter 2 of Crop evapotranspiration: Guidelines for computing crop water requirements, FAO Irrigation and Drainage Paper 56 (Allen et al., 1998) (hereafter referred to as FAO-56) later recommended the FAO Penman-Monteith equation as the sole method for calculation of ET_{ref} based on the "grass" (now "short crop") reference surface (ET_0), which requires solar irradiance, air temperature, air humidity, and wind speed as inputs. The authors explained that "the use of older FAO ...

The apples and oranges of reference and potential ...

ET_0 reference evapotranspiration [mm day^{-1}], R_n net radiation at the crop surface [$\text{MJ m}^{-2} \text{ day}^{-1}$], G soil heat flux density [$\text{MJ m}^{-2} \text{ day}^{-1}$], T mean daily air temperature at 2 m [$^{\circ}\text{C}$], u_2 wind speed at 2 m [m s^{-1}], e_s saturation vapour pressure [kPa], e_a actual vapour pressure [kPa], $e_s - e_a$ saturation vapour pressure deficit [kPa], Δ slope vapour pressure curve [$\text{kPa} \dots$]

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