
Crop Evapotranspiration Springerlink

estimation of reference evapotranspiration using ... - actual evapotranspiration. reference evapotranspiration corresponds to the amount of water that would return to the atmosphere in case of moisture redundancy, for a reference crop [e.g., alfalfa (et r) or grass (et 0)], from a standard surface and to then apply an appropriate empirical crop coefficient, which accounts for the difference ... **calibration of mass transfer-based models to predict ...** - calibration of mass transfer-based models to predict reference crop evapotranspiration mohammad valipour received: 15 november 2014/accepted: 19 february 2015/published online: 5 march 2015 the author(s) 2015. this article is published with open access at springerlink abstract the present study aims to compare mass ... of reference crop ... **analysis of potential evapotranspiration using limited ...** - analysis of potential evapotranspiration using limited weather data mohammad valipour received: 10 may 2014/accepted: 9 september 2014/published online: 27 september 2014 the author(s) 2014. this article is published with open access at springerlink abstract the most important weather variations are **evapotranspiration estimation methods in hydrological models** - evapotranspiration estimation methods in hydrological models 361 2 evapotranspiration estimation methods in hydrological models there are two groups of evapotranspiration estimation methods in hydrological models: one first estimates separately water surface evaporation, soil evaporation and vegetable transpi- **modeling the crop transpiration using an optimality-based ...** - springerlink modeling the crop transpiration using an optimality-based approach ... irrigation is responsible for the majority of evapotranspiration. a model for crop **effects of crop growth and development on regional climate ...** - seasonal crop growth and development on regional climate are discussed in sect. 4. finally, the results of the study are concluded and discussed in sect. 5. 2 model development in this study, the regional climate model, regcm3, was used to evaluate the role of crop growth and development processes, and the ceres phenological growth and **sensitivity of penman-monteith reference crop ...** - rapid calculation of the evapotranspiration in operating irrigation schemes or other water management systems. there is hardly any research on sensitivity analysis for reference crop evapotranspiration at present in china. gong et al. (2006) calculated sensitivity coefficients of et0 for mean air temperature, wind speed, relative hu- **water requirements and irrigation scheduling of spring ...** - water requirements and irrigation scheduling of spring maize using gis and cropwat model 57 fig. 1 sketch of jing-jin-ji region ing the dominant crop of the jing-jin-ji region, crop water **application and comparison of winter wheat canopy ...** - calculate crop evapotranspiration, and there are no recom-mended value [4] of r c for different crops at different growth stages. since the availability of r c in different environments determines the accuracy of evapotranspiration, reliable r c estimation has turned out to be an important research topic, among which **evapotranspiration of an oasi s-desert transition zone in ...** - an empirical formula of kp was put forward for this region; (4) crop coefficient (kc), an important index to reflect evapotranspiration, was also analyzed. results show that mean annual values of et0 and etc were 840 and 221 mm, respectively. on the daily bases, et0 and etc were 2.3 and 0.6 mm/d, respectively. the annual tendency of **the handbook of environmental chemistry - rd.springer** - springerlink. aims and scope since 1980, the handbook of environmental chemistry has provided sound and solid knowledge about environmental topics from a chemical perspective. presenting a wide spectrum of viewpoints and approaches, the series now covers **spatial and temporal variations and controlling factors of ...** - spatial and temporal variations and controlling factors of potential evapotranspiration in china 5 2 data and methods 2.1 data monthly mean sunshine duration (su), mean maximum temperature (tm), mean minimum temperature (tn), mean relative humidity (hu) and mean wind speed (wn) at 580 stations over china are used to a **two-parameter exponential recession model for simulating ...** - the potential evapotranspiration influenced by metero-logy and crop factors and the recession coefficients de- pending on soil texture. the proposed model was vali-dated with field data at two experiment sites in north china, yongledian station in beijing and xiaohe station in shanxi, with different cropping systems and different soil textures. **response of some soil attributes to different land use ...** - erence crop evapotranspiration (1,750 mm). this area that is part of iranian plateau formed in the late period of quaternary (10000 bp). the land use types assessed included a cultivated land, a grassland, and a native forestland (as a combination forest trees and pasture plants). most of the cultivated soils have **Inee 124 - the climatic characterization of reference ...** - where etp is the reference evapotranspiration (mmday-1), r n is the net radiation at the crop surface (mjm-2day-1), g is the soil heat flux density (mjm-2day-1), t the mean daily air temperature at 2 m height (°C) u 2 the wind speed at 2 m height (ms-1), e s the saturation vapor pressure (kpa), e s-e a the saturation vapor pressure deficit (kpa),

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