
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 (et₀)], from a standard surface and to then apply an appropriate empirical crop coefficient, which accounts for the difference ... **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- **calibration of mass transfer-based models to predict ...** - when reference crop evapotranspiration is estimated for a basin, wetland, watershed, or catchment instead a state or province (different parts of them are located at more than one state or province) and/or number of weather station used is low (increasing uncertainty). therefore, this study aims to estimate reference crop evapotranspiration for **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 **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- **evapotranspiration of an oasis desert transition zone in ...** - an empirical formula of k_p was put forward for this region; (4) crop coefficient (k_c), 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 **application and comparison of winter wheat canopy ...** - calculate crop evapotranspiration, and there are no recommended 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 **study on ndvi-t space by combining lai and evapotranspiration** - scichina springerlink doi: 10.1007/s11430-006-0747-0 study on ndvi-ts space by combining lai and evapotranspiration han lijuan^{1,2,3}, wang pengxin⁴, ... drought and crop yield. **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 **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 **remote sensing and census based assessment and scope for ...** - springerlink remote sensing and census based assessment and scope for improvement of rice and wheat water ... el-wise and estimate crop evapotranspiration. however, **ecohydrology and the partitioning aet between ...** - ecohydrology and the partitioning aet between transpiration and evaporation in a semiarid steppe w. k. lauenroth^{1*} and j. b. bradford² 1department of forest, rangeland, and watershed stewardship, colorado state university, fort collins, colorado 80523, usa; 2usda forest service, rocky mountain research station, 240 west prospect, fort collins, colorado 80526, usa **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 **the effect of pet calculations in drainmod on drain- age ...** - springerlink ... the effect of pet calculations in drainmod on drainage and crop yields predictions in a subhu mid vertisol soil district. ... evapotranspiration (or petcrop) and crop ...

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