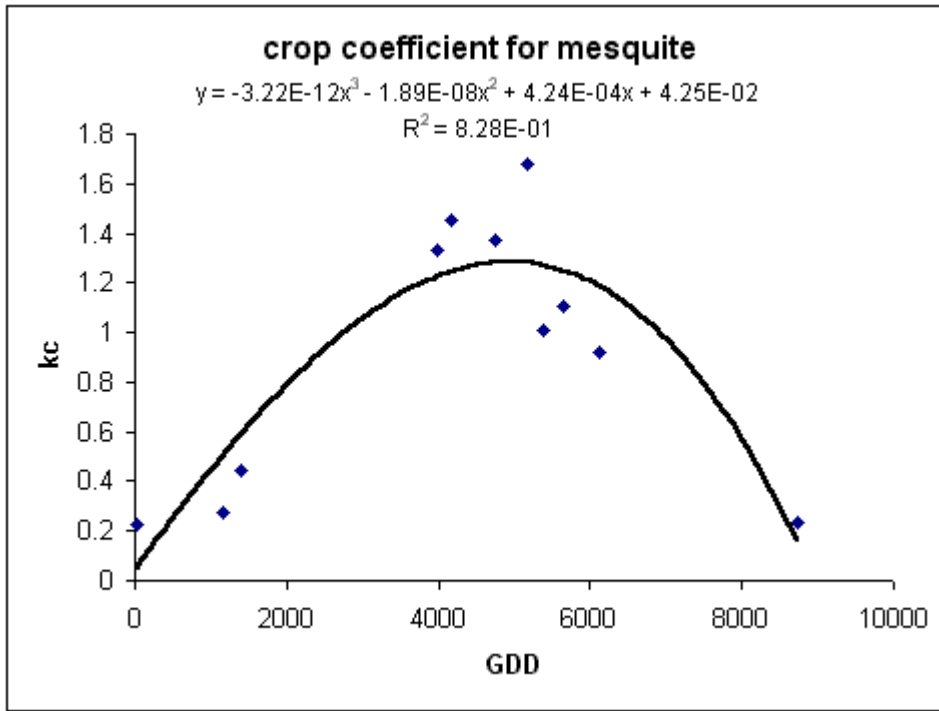


New Mexico Crop Information

Mesquite crop coefficient (kc) to calculate evapotranspiration(ET) where $Et=kc*Eto$

Eto = reference evapotranspiration or potential evapotranspiration referenced to grass.



Crop Coefficient uses growing degree days (GDD) accumulated from January 1 based on the averaging method of calculating [GDD](#) with no maximum temperature cutoff F and a minimum cutoff temperature of 55 F. The Base Temperature is 55 F. Mesquite shows leaves at the end of April in Las Cruces but in March in Tucson

The equation for the crop coefficient (k) is presented in the figure. Check the crop coefficient using Water in Desert Ecosystems by Evans and Thames.

For use in Las Cruces New Mexico set the ratio to 2 which adjust the GDD from Tucson Arizona to Las Cruces NM

The reference for this work is Levitt, D. G. , J. R. Simpson and J. L. Tipon 1995 Water use of two landscape tree species in Tucson Arizona J Amer. Soc Hort. Sci. 120(3)409-416.