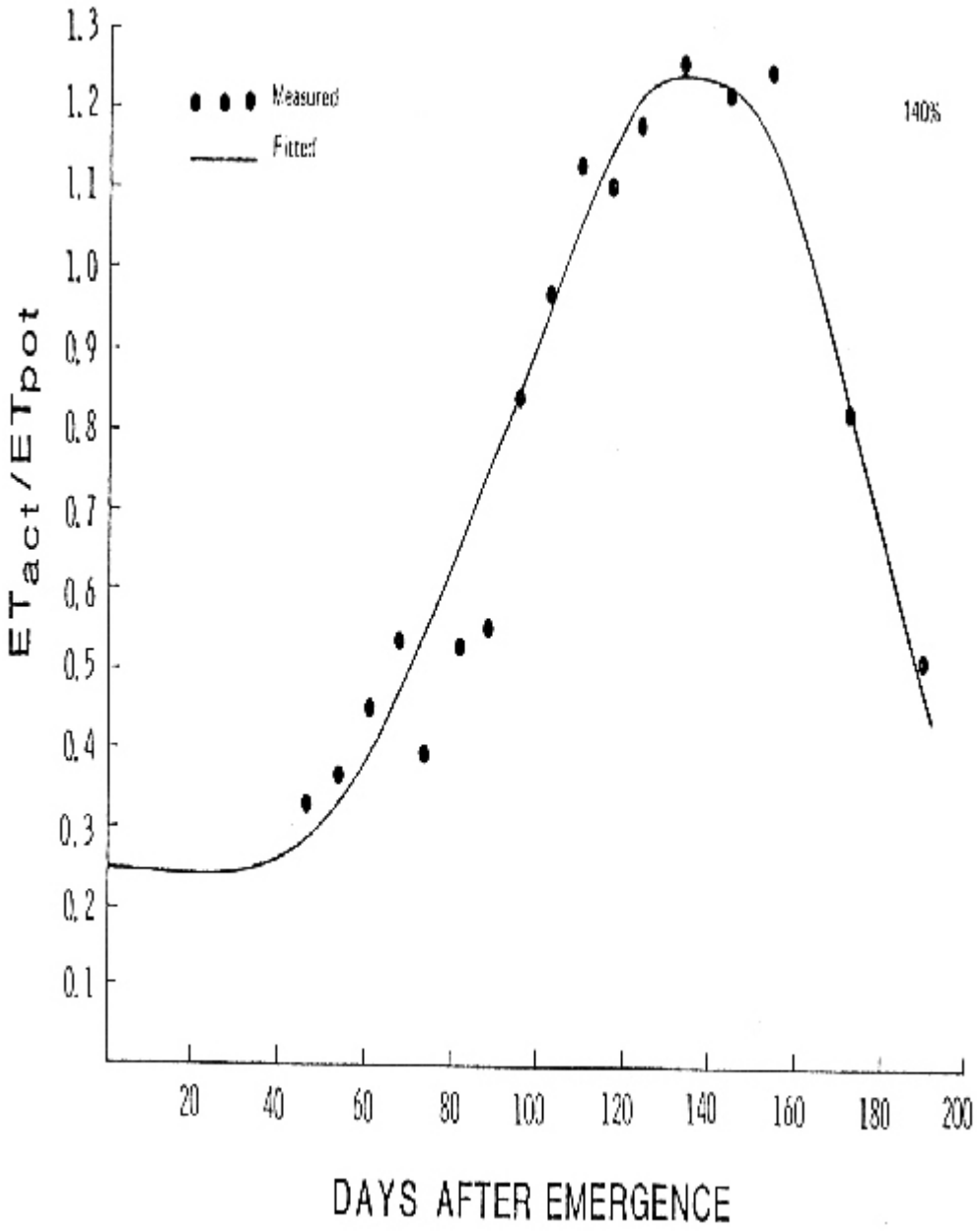
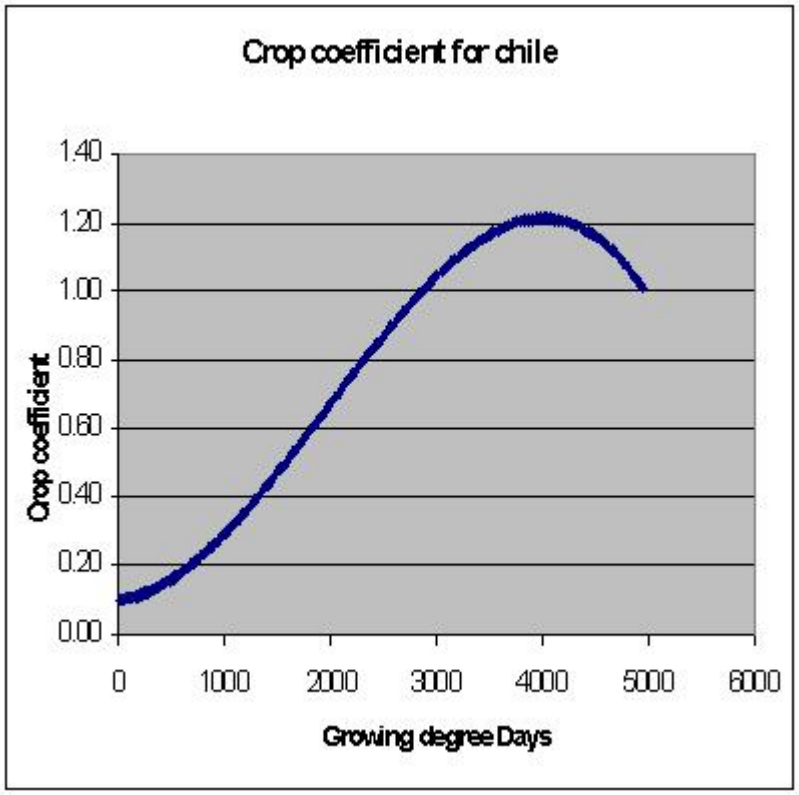
NEW MEXICO CLIMATE CENTER

New Mexico Crop Information

Chile coefficient(k) to calculate evapotranspiration(ET) where Et=k*Eto

Eto = reference evapotranspiration or potential evapotranspiration referenced to grass.





Crop Coefficient uses growing degree days (GDD) accumulated from planting based on the averaging method of calculating GDD with a maximum temperature cutoff of 86 F and a minimum cutoff temperature of 41 F. The Base Temperature is 41 F

The equation for the crop coefficient (k) is: k=9.80E-2 +3.33E-5 Gdd +1.91E-7 GDD^2-3.25E-11 GDD^3 .

Crop Coefficient =Etact/Etpot for chile yields of 37000 kg/ha green chile and 6000kg/ha red chile or 33000lb/ac green chile and 5300 lb./ac green chile.

The reference for this work is Saddiq, M. H. 1983. Soil Water Status and Water Use of Trickle -Irrigated Chile Pepper Dissertation in Agronomy at NMSU

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