New Mexico Crop Information
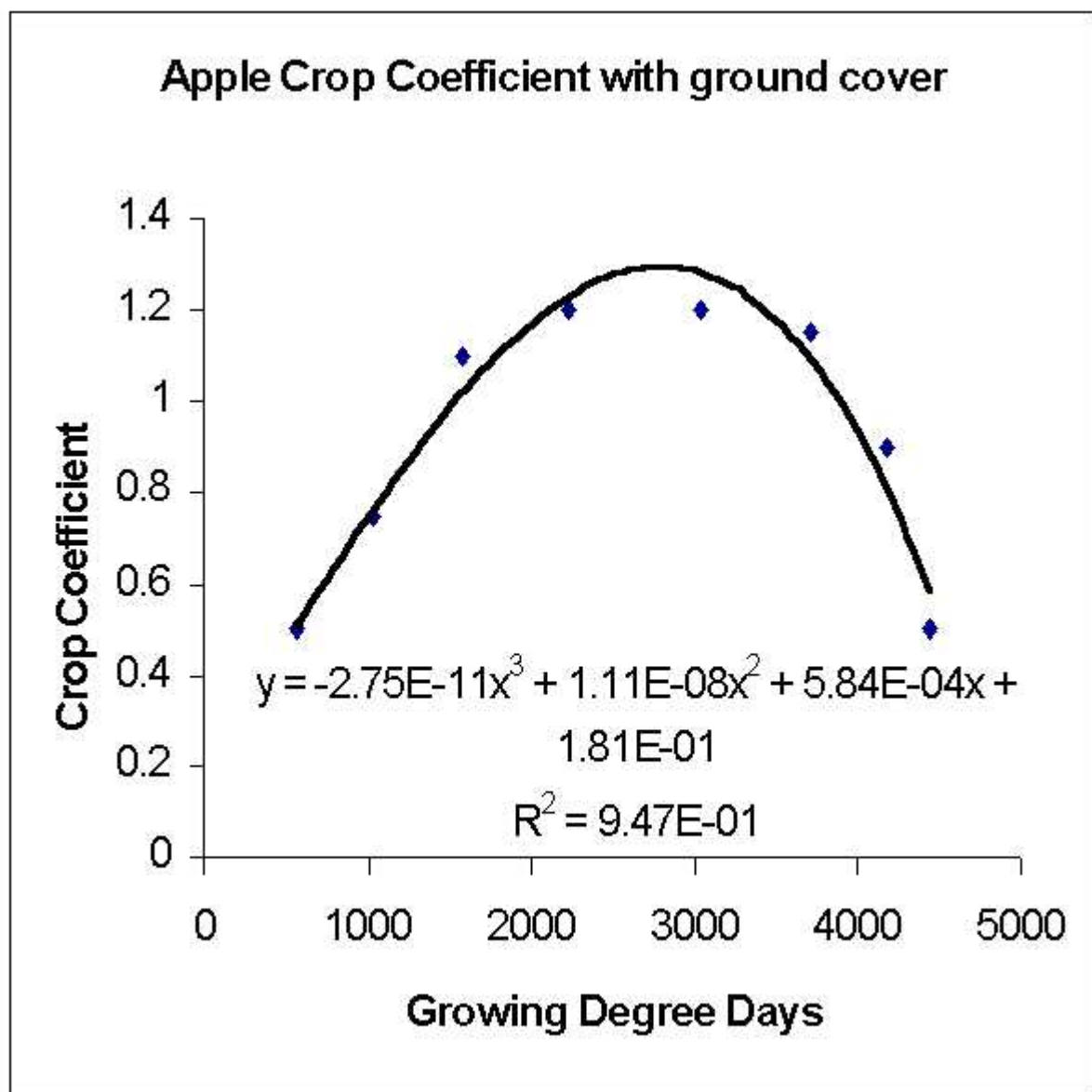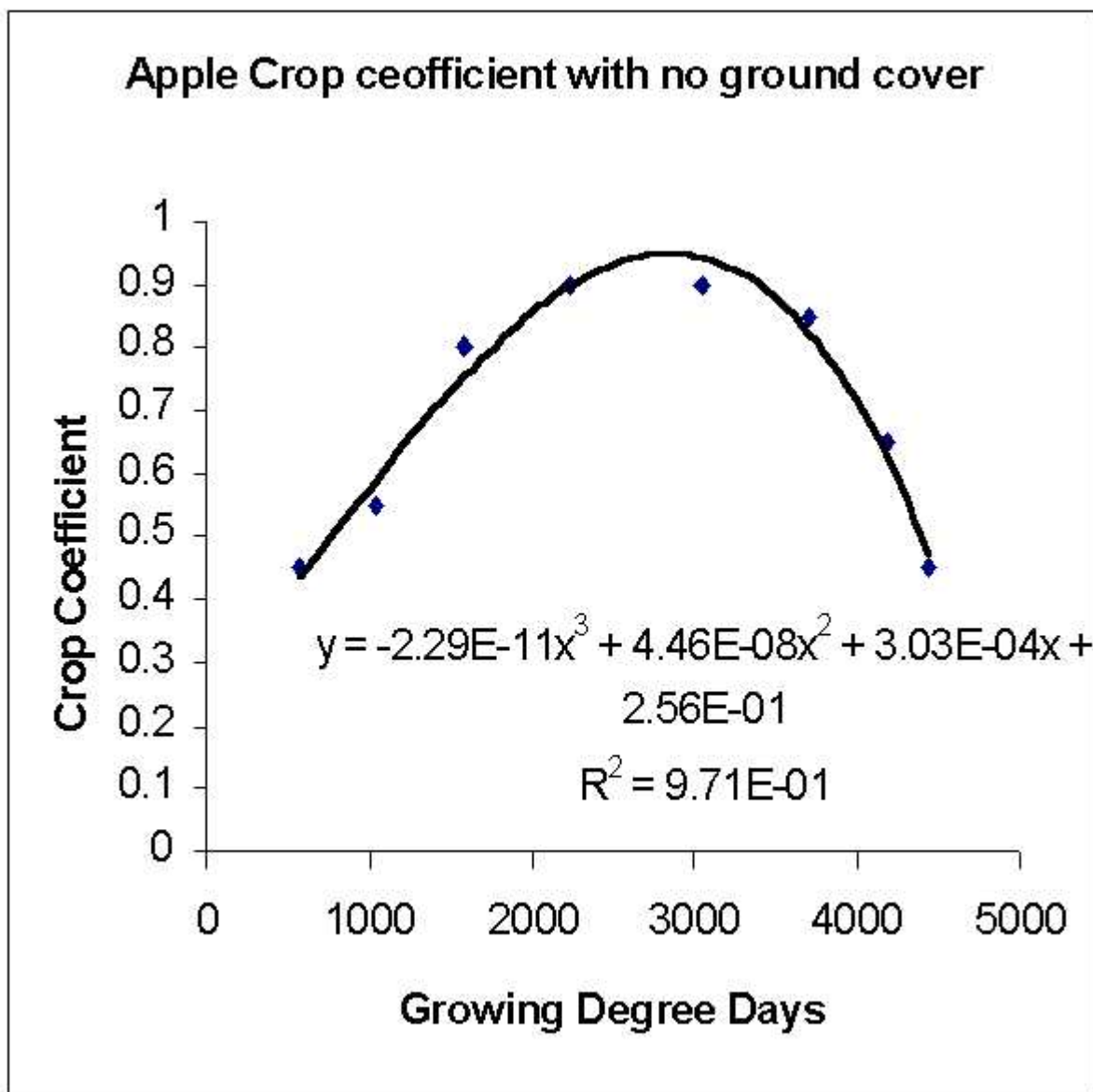
Apple coefficient(kc) to calculate evapotranspiration(ET) where Et=kc*Eto

Eto = reference evapotranspiration or potential evapotranspiration referenced to grass.

Apple Crop Coefficient with ground cover

$$y = -2.75\text{E-}11x^3 + 1.11\text{E-}08x^2 + 5.84\text{E-}04x + 1.81\text{E-}01$$

$$R^2 = 9.47\text{E-}01$$

Crop Coefficient (y-axis)

Growing Degree Days (x-axis)

Apple Crop ceofficient with no ground cover

$$y = -2.29E\text{-}11x^3 + 4.46E\text{-}08x^2 + 3.03E\text{-}04x + 2.56E\text{-}01$$

$$R^2 = 9.71E\text{-}01$$

Crop Coefficient uses growing degree days (GDD) accumulated from the first of the year based on the averaging method of calculating GDD with a maximum temperature cutoff of 97F C and a minimum cutoff temperature of 41F. The Base Temperature is 41F. At the first frost in the fall the crop coefficient go to 0.15 appropriate for Evapotranspiration from ground cover and bare soil during the winter.