

# How can remote-sensing be used to calculate ET?

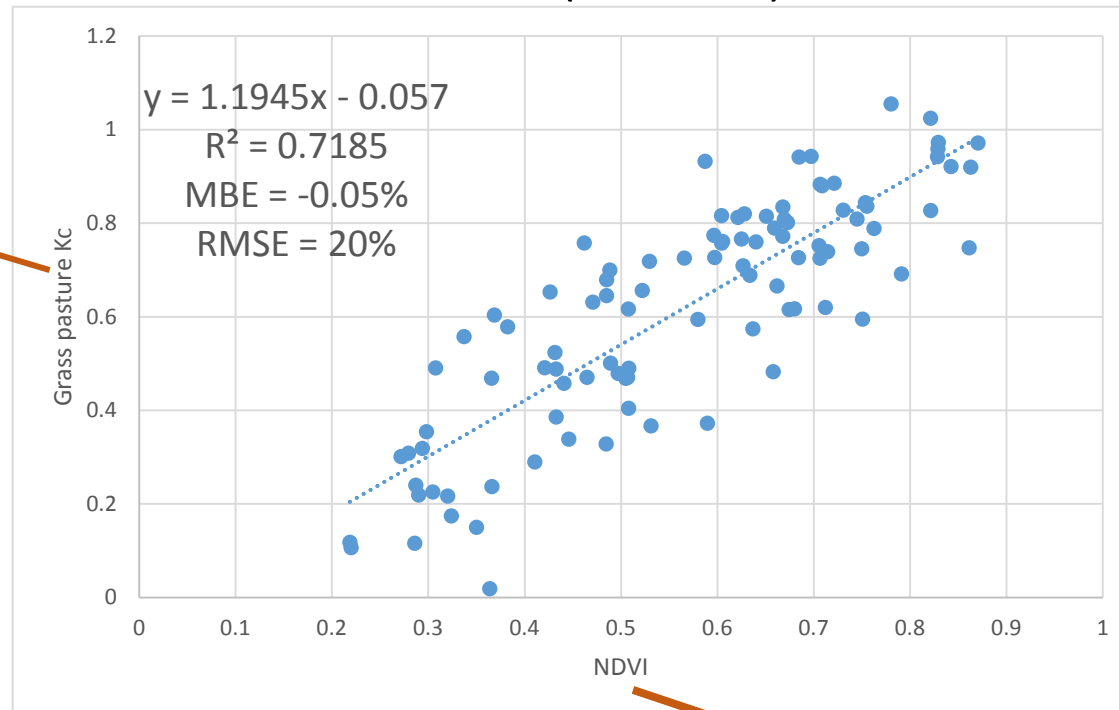
## Reflectance-based crop coefficient approach

Developed for grass pastures:

$$K_{cr} = 1.195 \text{ NDVI} - 0.057 \quad (R^2 = 0.72)$$

Obtained in 3 steps:

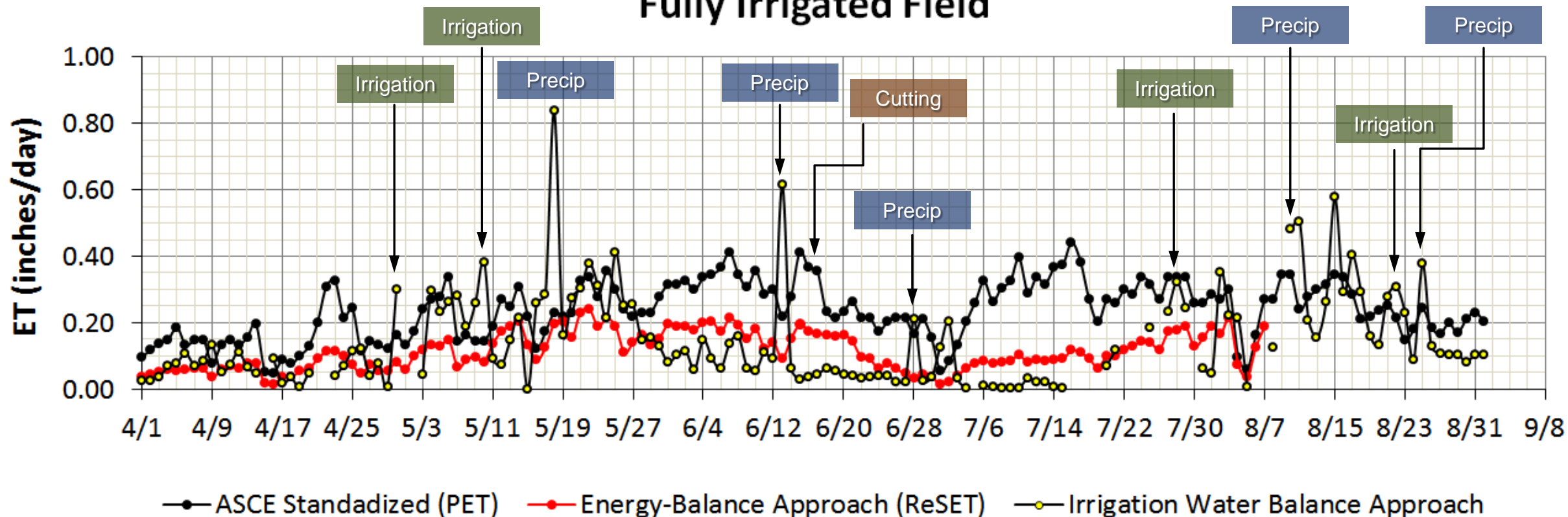
- ET\_actual from ReSET; 10 ground-truthed grass sites over 2016
- ET\_ref from COAGMET
- $K_c = \text{ET\_actual} / \text{ET\_ref}$



- $\text{NDVI} = (\text{NIR} - \text{R}) / (\text{NIR} + \text{R})$  ; 10 ground truthed grass sites
- Simple, raster calculator

# Comparison EB versus IWB (Reference)

Daily ET Rates for Montrose, CO (2016)  
Fully Irrigated Field



# Comparison EB versus IWB (Treatment)

