**Method 1: Small Farmers unreported**

Assumption: Irrigated operations under 10 acres are not reporting to DEQ

Coefficient1:

1. For counties **with DEQ withdrawals**:

C\_irr c,y = Acres under threshold c,y / Total Irrigated acres c,y  (1)

To calculate unreported withdrawals in (MG)

Step1: Using equation 2 solve for Total

(1- C\_irr c,y)% of Total = DEQ withdrawals (2)

Step 2: Unreported withdrawals = Total – DEQ withdrawals

1. For counties without DEQ withdrawals:

C\_tot c,y = Volume of Irrigtaion c,y / Total DEQ withdrawals c,y

Volume of Irrigtaion c,y = (Acres unreported \* Irrigation)

Irrigtaion(inches) = (30 – Precipitation)

Precipitation for June to August