Aplication Efficiency: Other Truck Crops 2001

Application Efficiency (AE) is a performance criterion that expresses how well an irrigation system executes when it is operated to deliver a specific amount of water. AE expresses how well an irrigation system can potentially distributes the water across the field. AE is the ratio of average water depth applied and target water depth during an irrigation event (Burt et al. 1997). The lower quartile depth was considered as the target water depth.

Table 1 shows the AE values used for different irrigation systems (Canessa et al. 2011). Regional AE estimates in Table 2 were estimated using a weighted average of AE and irrigation system's crop acreage for each region (Tindula et al. 2013). The main assumptions is that every farmer provided the lower quartile depth during each irrigation event to meet crop water requirements.

A correction for water losses may applied for irrigation systems of Sprinkler and surface irrigation (Rogers et al. 1997). Read Sandoval-Solis et al. (2013) for a thorough description of the assumption and values provided in this map.

The AE provided in this map are intended to be used for water planning and management estimates at medium to large scale regions. Local and field AE values may vary from those displayed here due to individual irrigation practices.