Aplication Efficiency: Turfgrass and Landscape 2010 Table 1 - Application Efficiencies for different Irrigation Systems Application Efficiency (AE) is a performan-Application Efficiencies (%) ce criterion that expresses how well an irriga-Irrigation System High tion system executes when is operated to de-Surface Irrigation HR 01₌85.5 Wild Flood liver a specific amount of water. AE express-Border es how well an irrigation system can potential-Basin 83 ly distributes the water across the field. AE is the ratio of average water depth applied and Surface - Sprinkler Side-Roll Surface - Sprinkler Hand- Mov target water depth during an irrigation event Sprinkler (Burt et al.1997). The lower quartile depth Permanent was considered as the target water depth. Hand-Move 70 82 Linear-Move Side-Roll Table 1 shows the AE values used for different Micro-Mini HR 08=81.6 irrigation systems (Canessa et al. 2011). Re-Center - Pivo Drip gional AE estimates in Table 2 were estimated using a weighted average of AE and 95 Above ground irrigation system's crop acreage for each Buried drip region (Tindula et al. 2013). The main assu-Table 2 - Application Efficiency Estimates mptions is that every farmer provided the lo-HR 05=70.2 wer quartile depth during each irrigation event Hydrologic Region to meet crop water requirements. North Coast San Francisco Bay Central Coast 78.8 86.2 A correction for water losses may applied 72.8 South Coast for irrigation systems of Sprinkler and sur-Sacramento River San Joaquin River 70.2 75.2 60.2 80.1 84.7 face irrigation (Rogers et al. 1997). Tulare Lake Read Sandoval-Solis et al. (2013) for a North Lahontan 81.6 thorough description of the assumption South Lahontan 72.1 and values provided in this map. Colorado River Statewide Note. -99 values mean not data available 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 HR 06=75.2 HR 07=79.1 HR 09=72.1 High: 90 Low: 50 HR 04=72.8 100 Miles 80 100 120 140 160 Kilometers HR 10=72.4 UC Davis Water Management Research Group http://watermanagement.ucdavis.edu Developed as a cooperative project between University of California, Davis United States Geological Survey and California Department of Water Resources Map prepared by P.I.: Samuel Sandoval Solis, Ph.D. © 2013.