Maximizing Water Use in a Changing Western Landscape

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Treasure Valley Urbanization
Urbanization of Agricultural Land
Turf farmer irrigates each area once every 4-7 days.
Pressurized Irrigation System

- ~ 60% Irrigated
- 4.2 to 4.4 AF/acre for actual irrigated area
- 2.5 to 2.6 AF/acre for gross area

Source: SPF Water Engineering
Pressurized Residential Irrigation System

1 inch/acre for 100 acres agricultural irrigation (900 gpm)

1 inch/acre for irr’n of 65 acres of residential pervious area (585 gpm)

Source: SPF Water Engineering

Hypothetical example
PRESSURIZED IRRIGATION SYSTEM FLOW MONITORING - BOISE, IDAHO

Canal Delivery
Rate = 900 gpm
(100 miners inches)

Water Delivered
But Not Used

Average Use = 450 gpm
(50 miners inches)

Water Delivered
and Used