GIVENS PURSLEY LLP

2011 PNWS-AWWA Conference

Water Supply Strategies for Idaho Communities Expanding into the Agricultural Landscape

Jeffrey C. Fereday

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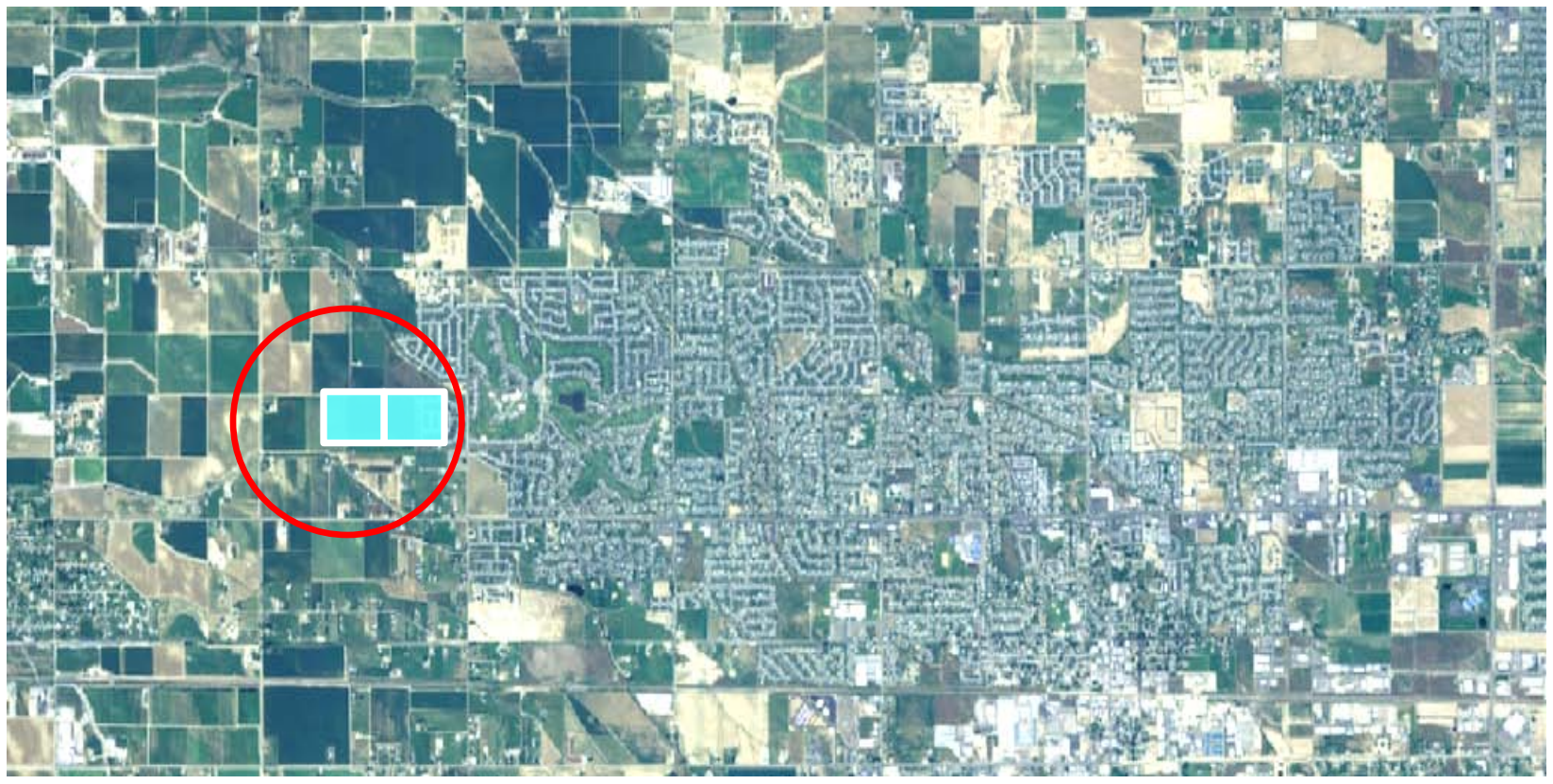
Treasure Valley Urbanization

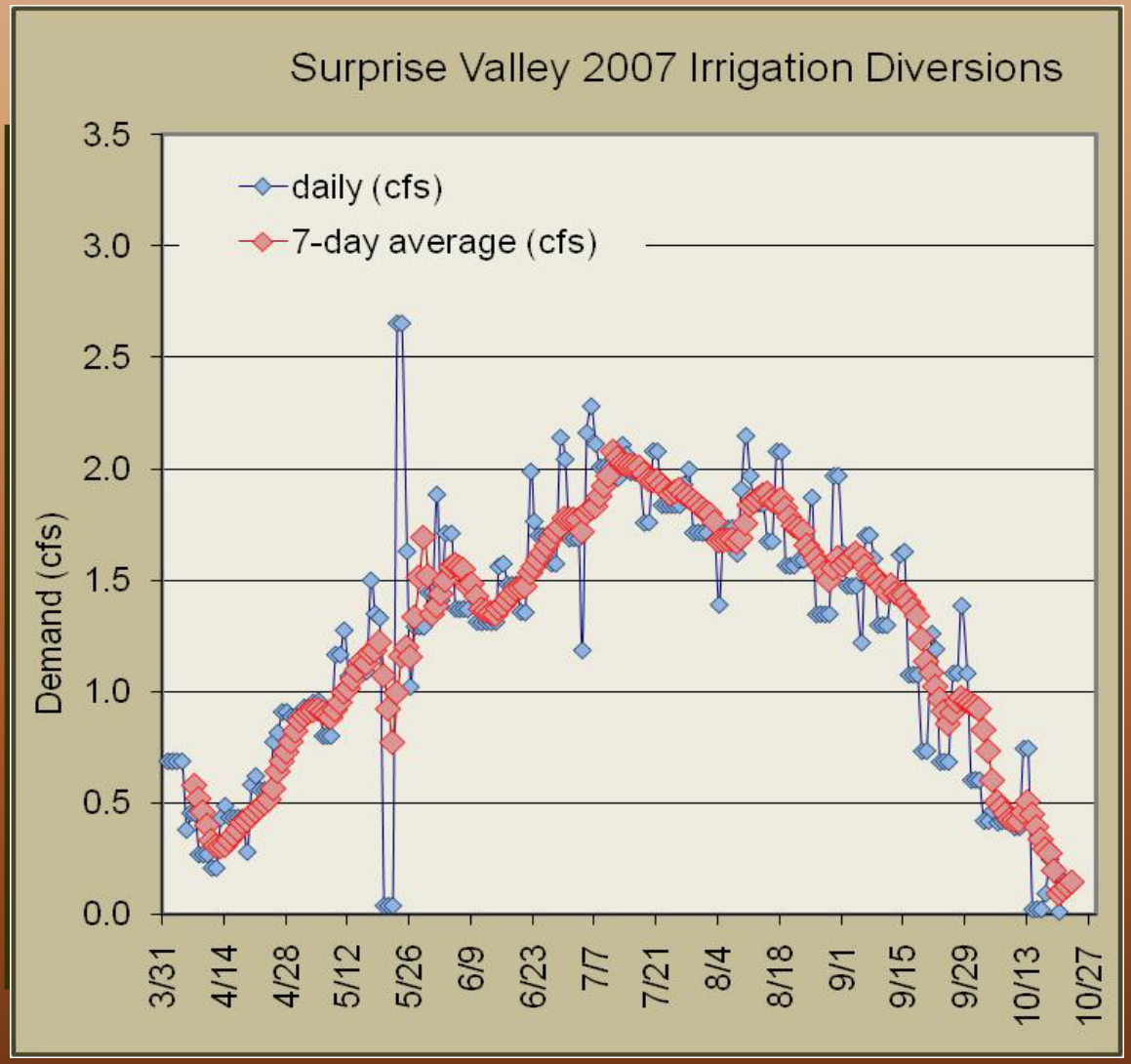


Urbanization of Agricultural Land

Turf farmer irrigates each area once every 4-7 days.

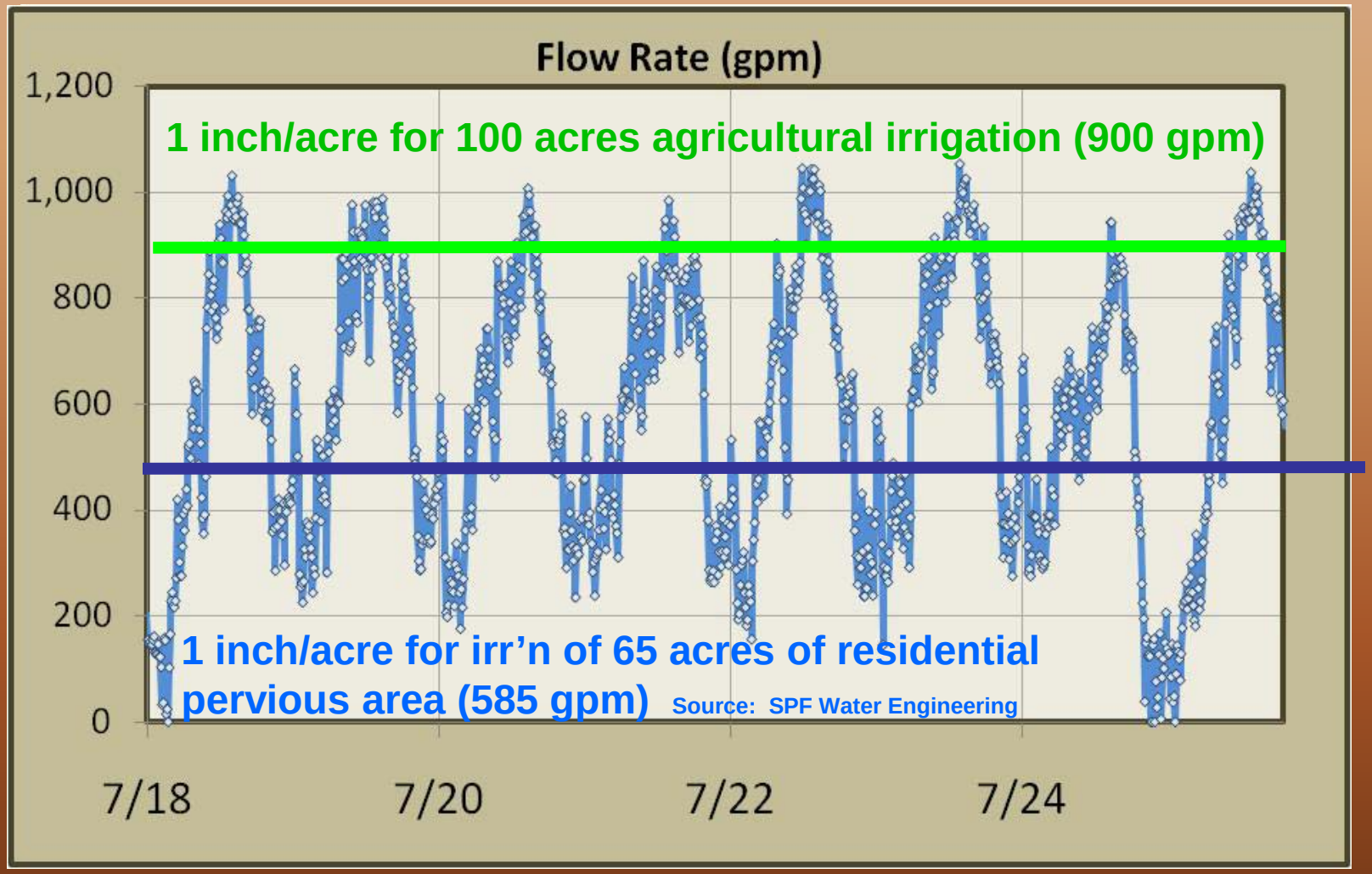
Pressurized Irrigation System

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

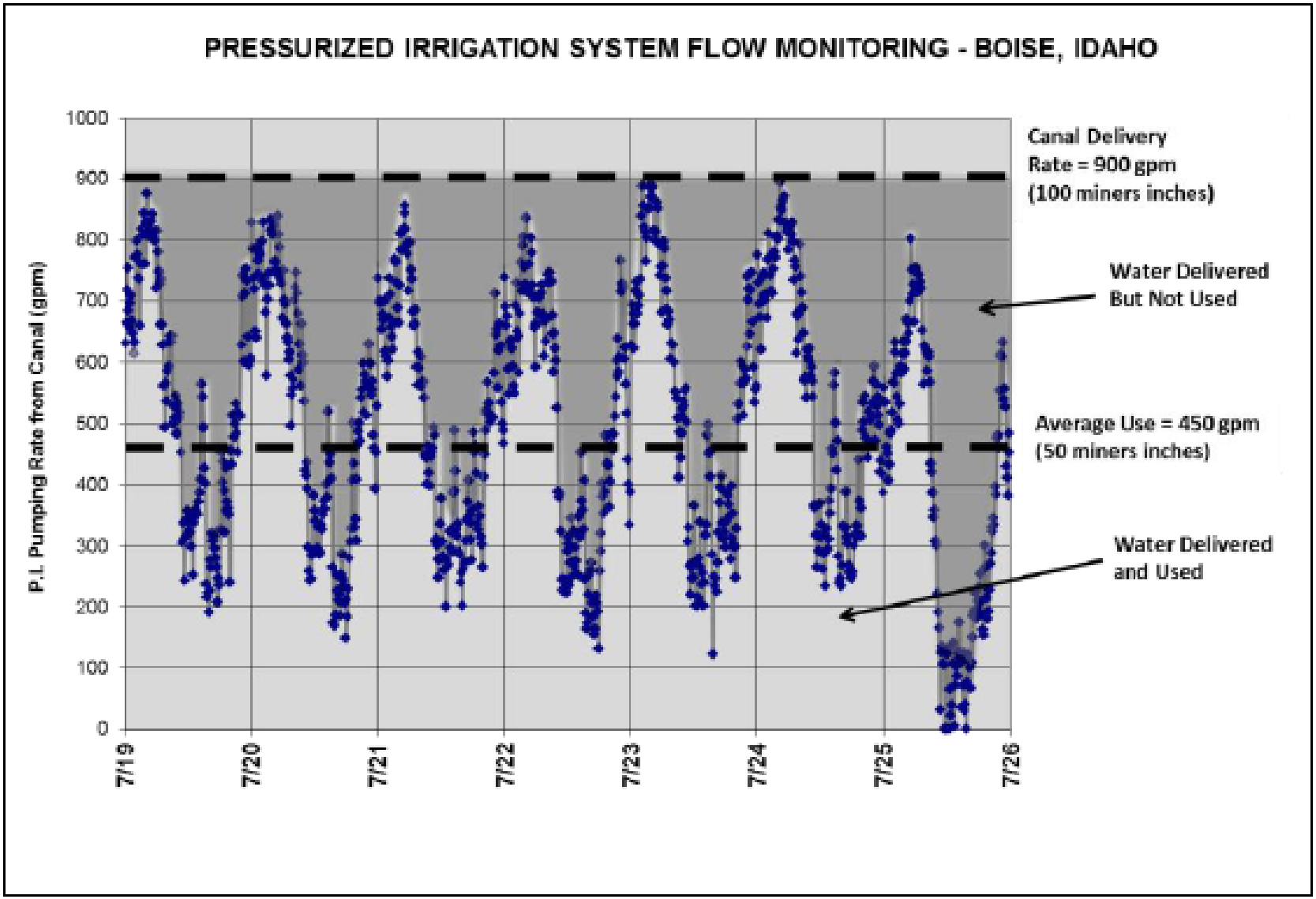


Source:
SPF Water Engineering

Pressurized Residential Irrigation System



Hypothetical example


PRESSURIZED IRRIGATION SYSTEM FLOW MONITORING - BOISE, IDAHO
P.I. Pumping Rate from Canal (gpm)
1000
900
800
700
600
500
400
300
200
100
0
7/19
7/20
7/21
7/22
7/23
7/24
7/25
7/26
Canal Delivery
Rate = 900 gpm
(100 miners inches)
Water Delivered
But Not Used
Average Use = 450 gpm
(50 miners inches)
Water Delivered
and Used