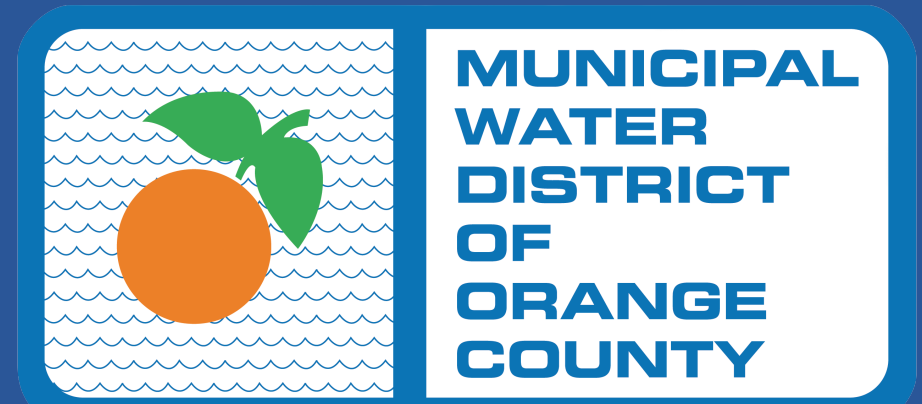


# MUNICIPAL WATER DISTRICT OF ORANGE COUNTY WATER LOSS CONTROL PROGRAM



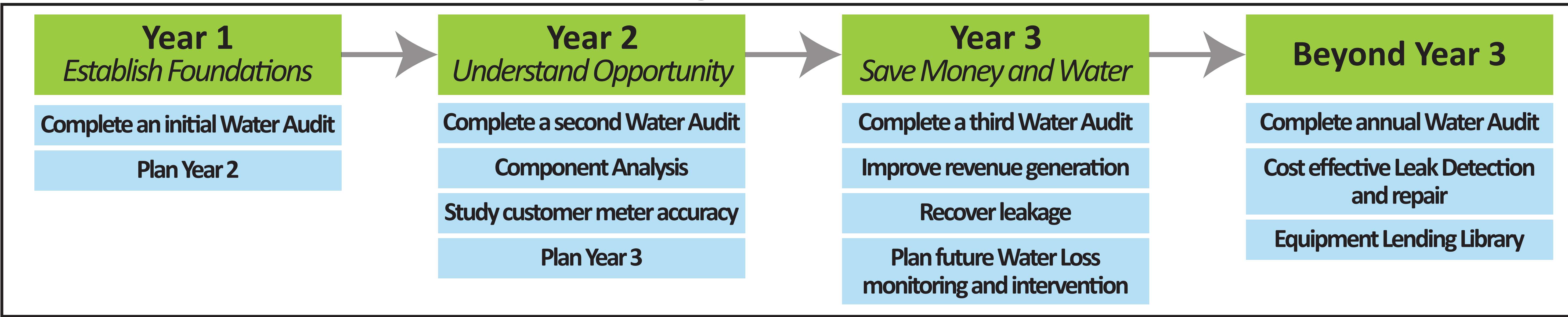
## Striving to Achieve *an Economically Optimized* Level of Water Loss

### Regulatory Influence

SB 1420 - quantification and reporting of distribution system Water Loss

SB 555 - validation and submission of Water Loss audit to Department of Water Resources (Water Loss performance targets pending)

### Program Timeline

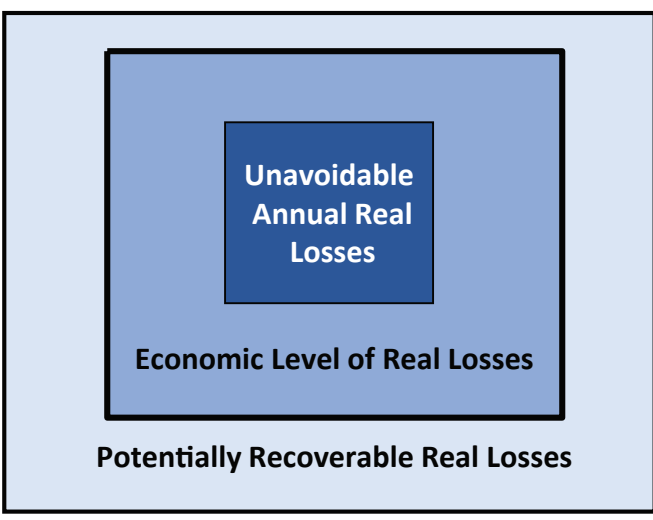


### Performance Indicators

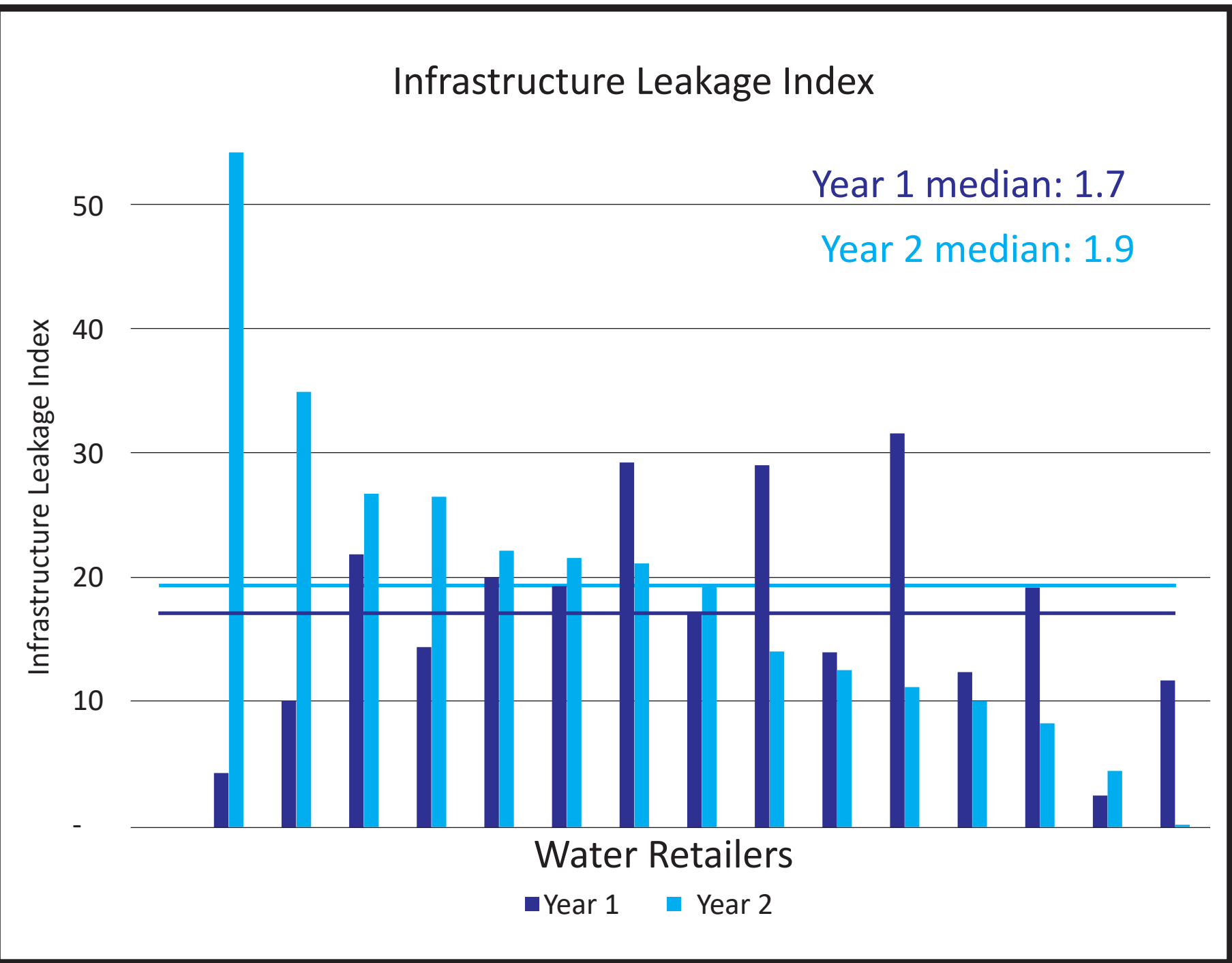
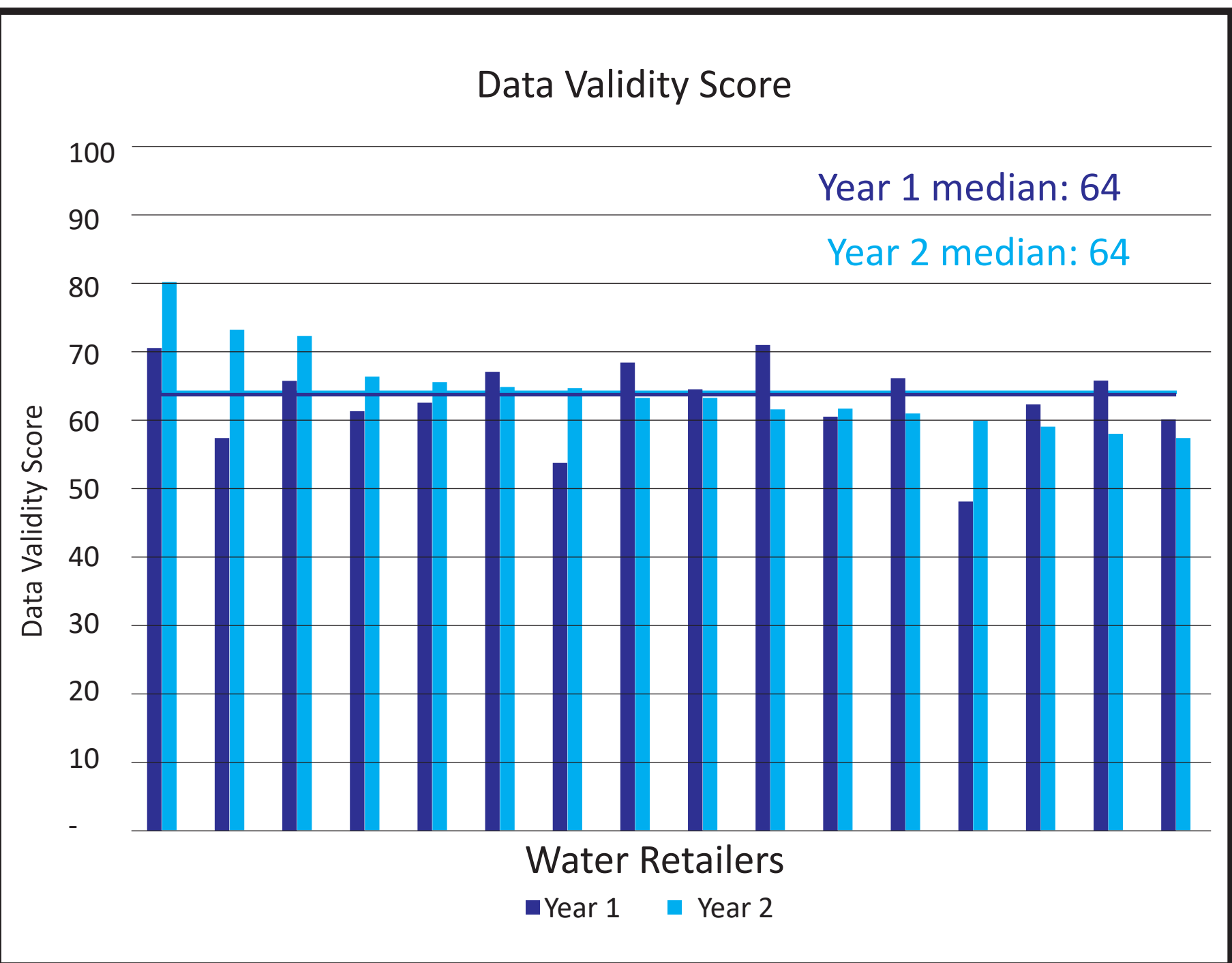
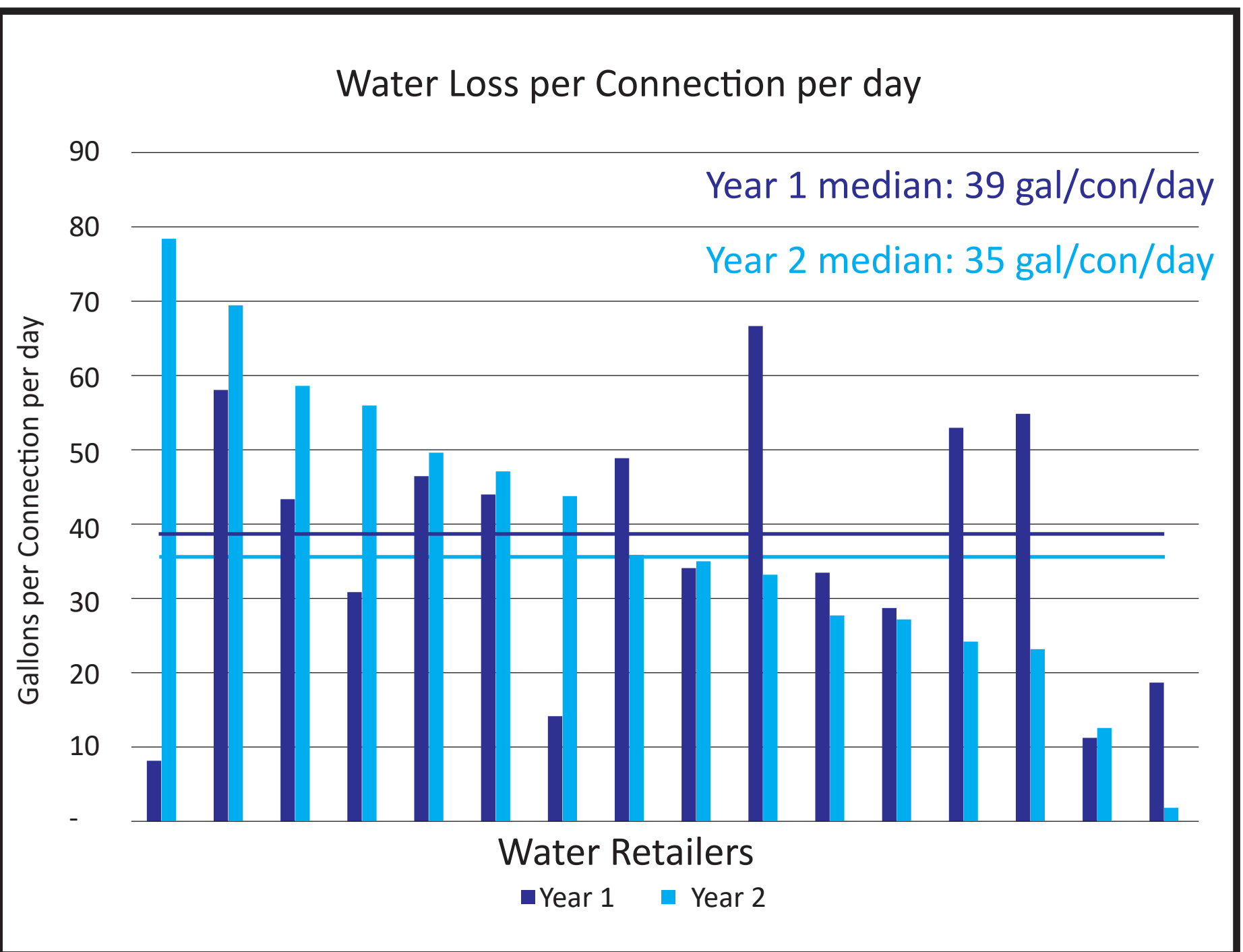
FINANCIAL INDICATORS	UNITS
Non Revenue Water volume as % of Water Supplied	%
Non Revenue Water value as % of operating cost	%

OPERATIONAL EFFICIENCY INDICATORS	UNITS
Apparent Losses per Service Connection per Day	gal / conn / day
Real Losses per Service Connection per Day	gal / conn / day
Real Losses per Service Connection per Day per PSI	gal / conn / day / PSI
Infrastructure Leakage Index	ratio

$$ILI = \frac{\text{actual real losses}}{\text{technical minimum}}$$



### Year 1 & Year 2 Results Comparison



### Year 1 to Year 2 Changes

Half of the audits didn't change (either data or outcomes).

Changes in the other half:

- Source meter accuracy – measured and incorporated
- Meter register units – corrected
- AMI data issues – solved
- True leakage reduction

### Year 2 Results

16 agencies participated in year 1 and year 2

7 agencies tested customer meters

**9,900 AF of water loss valued at \$9.7MM**

**Joseph M. Berg**  
Director of Water Use Efficiency  
Direct: (714) 593-5008 • jberg@mwdoc.com

**Street Address**  
18700 Ward Street  
Fountain Valley, California 92708

**Mailing Address**  
P.O. Box 30895  
Fountain Valley, California 92728

Office: (714) 963-3058 • Fax: (714) 964-5930 • www.mwdoc.com

