

FISCAL YEAR 2023 WATER LOSS AUDIT RESULTS

July 24, 2024

Presentation and Discussion Item 7



Water Loss Regulations

- 2017-2023 Perform a Water Loss Audit, have it validated by a certified 3rd Party, and submit to DWR
- 2020-2022 Real Loss Performance Standards set by DWR for each urban retail water supplier:
 - Mesa Water Real Loss standard is 16.7 gallons/connection/day
 - Mesa Water Apparent Loss standard is 11.4 gallons/connection/day
- 2023-2028 Submit Water Loss Audit + three new questionnaires
- 2028 Meet the Real Loss standard + Apparent Loss standard + Water Loss Audit + questionnaires

Changes for 2023

Version 6.0 of AWWA Free Water Loss Software:

- Different default values change the balance between Real Loss and Apparent Loss
- No flexibility on data validation grading did not affect our overall Data Validity Score
- Initial Questionnaires submitted for:
 - Data Quality and Pressure Management in December 2023
 - Asset Management in June 2024



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Real Loss and Apparent Loss

Water Loss = Water Supplied -

- Clear Wells
- MWRF

Water Loss = Apparent Loss +

- Customer meter inaccuracy
- Theft
- Billing discrepancies

Water Demand

- Customer meters
- Authorized, unmetered (ie, CMFD, CMSD)

Real Loss

- Main line breaks
- Service line breaks
- Background leakage

Real Loss = Water Loss - Apparent Loss



FY 2023 Water Loss Audit Outputs-KPIs

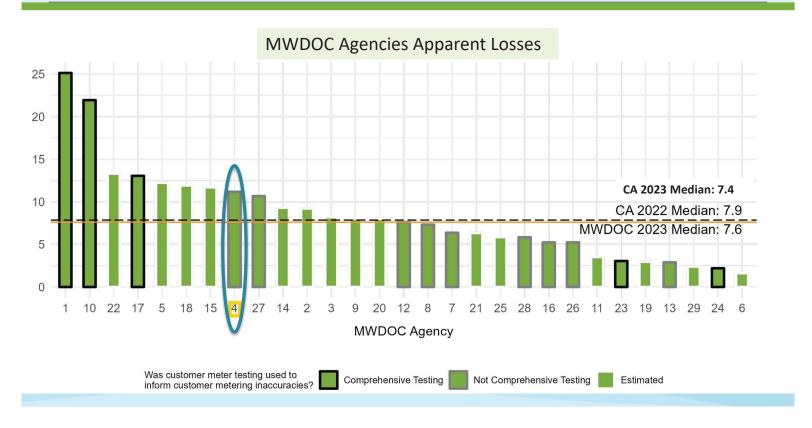
КРІ	Mesa Water	California Percentile	MWDOC Member Agency Percentile	
Real Loss (as percent of water supplied)	1.95%	NA	NA	
Real Loss (Gal/connection/day)	9.9	Best 20%	Best Quartile	
Apparent Loss (Gal/connection/day)	11.2	Bottom Quartile	Bottom third	
Infrastructure Leakage Index (ILI)	0.6	Best 20%	Best Quartile	
Data Validity Score	82	Best 2%	Best Score	

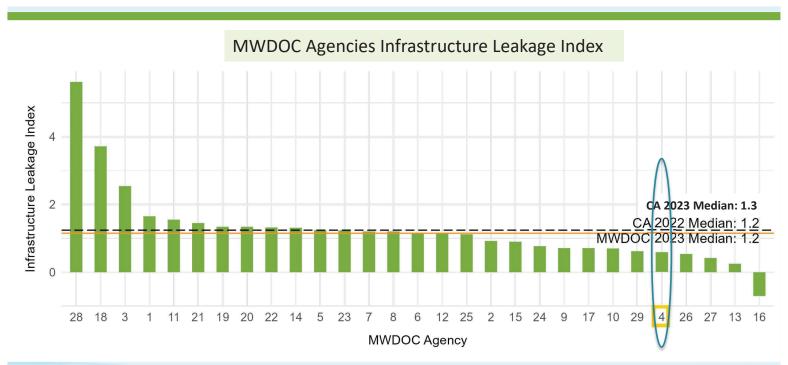
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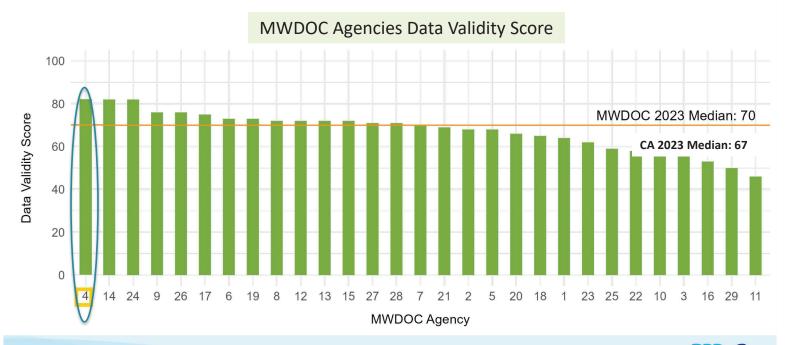












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2028 Performance Standards

	2028 Standard (gal/conn/day)	FY 2023 Result	Met the Standard?	Compliance Standard?
Real Loss	16.7	9.9	Yes	Yes
Apparent Loss	11.4	11.2	Yes	No



Questions



