FY22 WATER LOSS AUDIT RESULTS

April 26, 2023

New 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

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Real Loss and Apparent Loss

Water Loss = Water Supplied   −   Water Demand
- Clear Wells
- MWRF

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

Water Loss = Apparent Loss   +   Real Loss
- Customer meter inaccuracy
- Theft
- Billing discrepancies

- Main line breaks
- Service line breaks
- Background leakage

Real Loss   =   Water Loss - Apparent Loss

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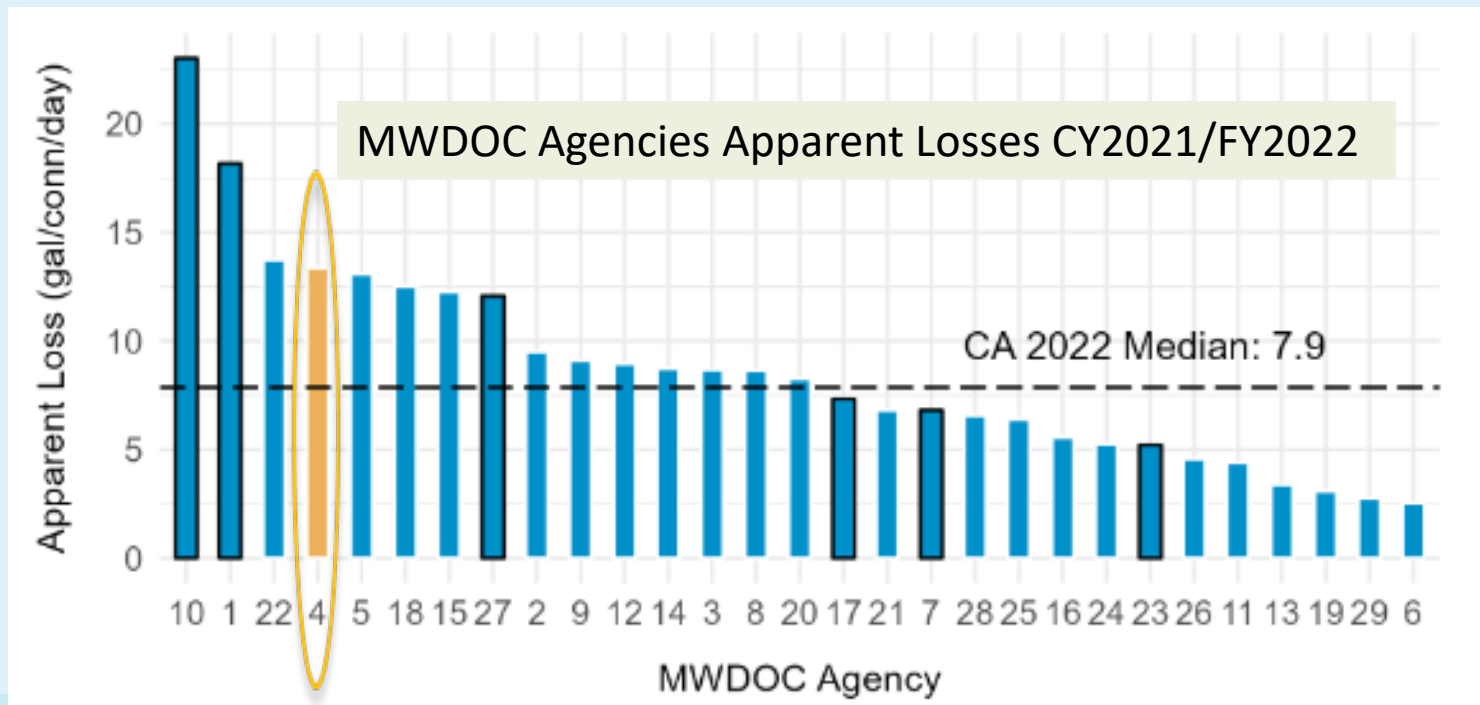DISTRICT©

FY22 Water Loss Audit Outputs-KPIs

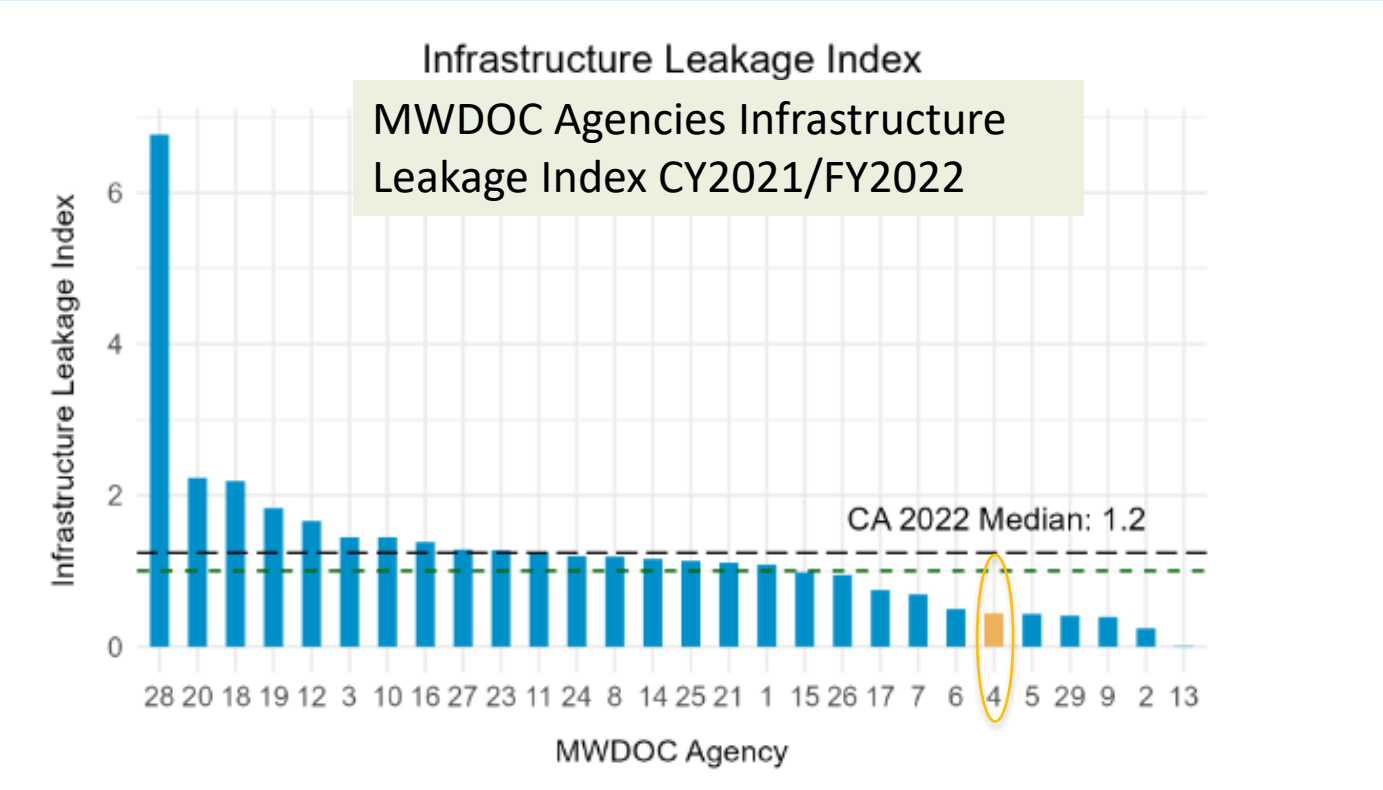| KPI	Mesa Water	California Percentile	MWDOC Member Agency Percentile
Real Loss (as percent of water supplied)	1.2%	Not available	Not available
Real Loss (Gal/connection/day)	7.9	Best 5%	Best 25%
Apparent Loss (Gal/connection/day)	13.4	Bottom 20%	Bottom 15%
Infrastructure Leakage Index (ILI)	0.44	Best 20%	Best 25%
Data Validity Score	79	Best 20%	Best

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Real Losses

MWDOC Agencies Real Losses CY2021/FY2022

CA 2022 Median: 24.9

Real Loss (gal/conn/day)

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Apparent Losses

MWDOC Agencies Apparent Losses CY2021/FY2022

CA 2022 Median: 7.9

Apparent Loss (gal/conn/day)

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Infrastructure Leakage Index (ILI)

Data Validity Score

MWDOC Agencies Data Validity Score CY2021/FY2022

CA 2022 Median: 65

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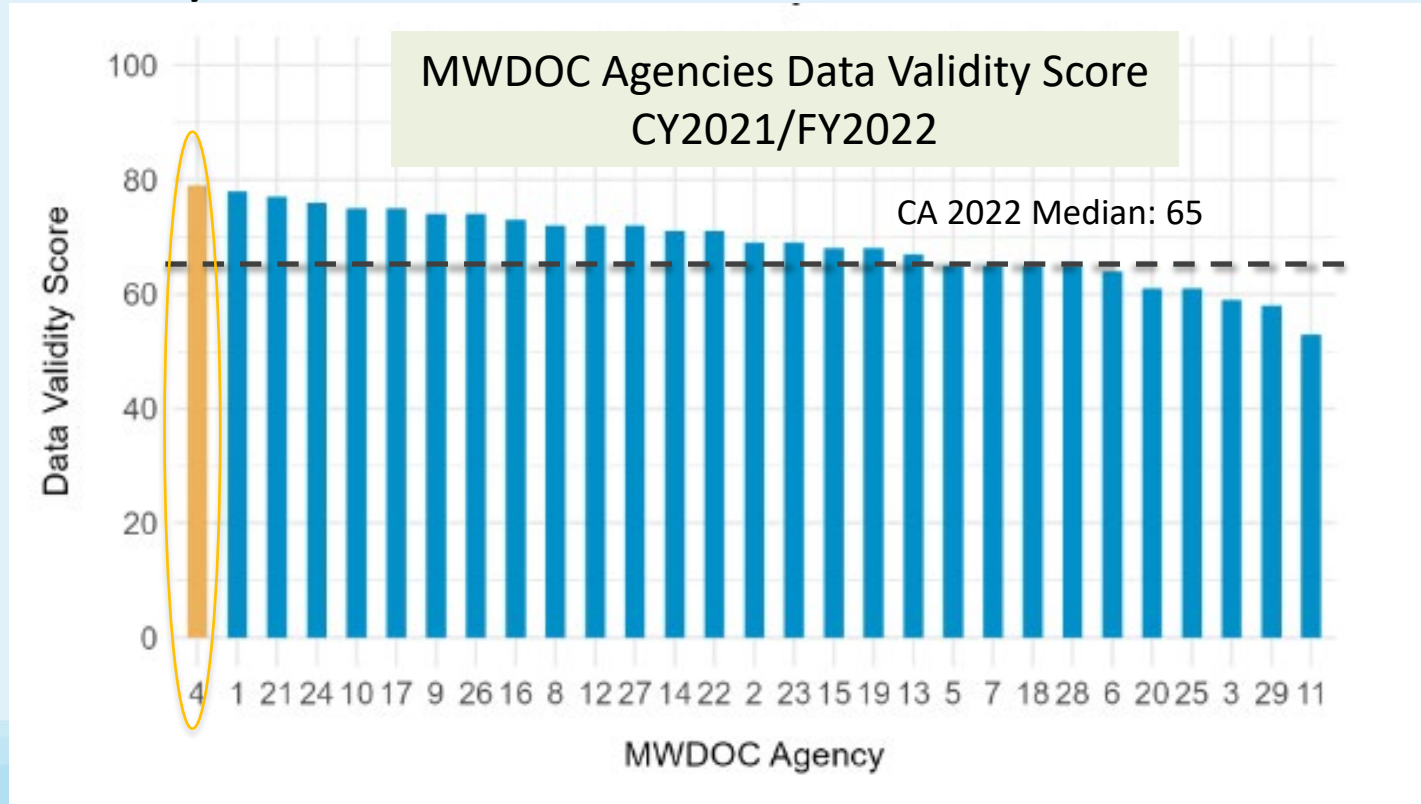
2028 Performance Standards

	2028 Standard (gal/conn/day)	FY2022 Result	Met the Standard?	Compliance Standard?
Real Loss	16.7	7.9	Yes	Yes
Apparent Loss	11.4	13.4	No	No

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Changes for 2023

- Version 6.0 of AWWA Free Water Loss Software
  - Different default values may change the balance between Real Loss and Apparent Loss
  - No flexibility on data validation grading may lower our overall Data Validity Score

- Initial Questionnaires are due for
  - Data Quality
  - Pressure Management

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Questions

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