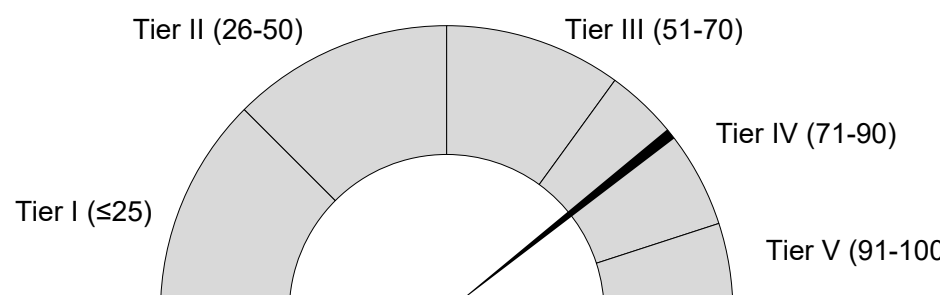


Data Validity

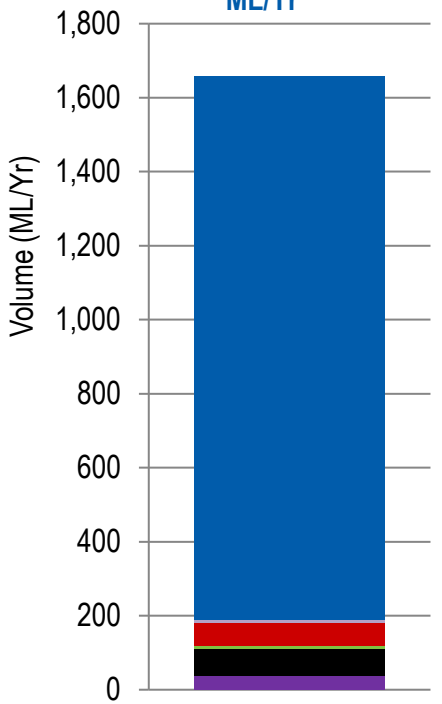
Data Validity Score: 78 **Data Validity Tier:** Tier IV (71-90)

See [Loss Control Planning](#) for Tier Details

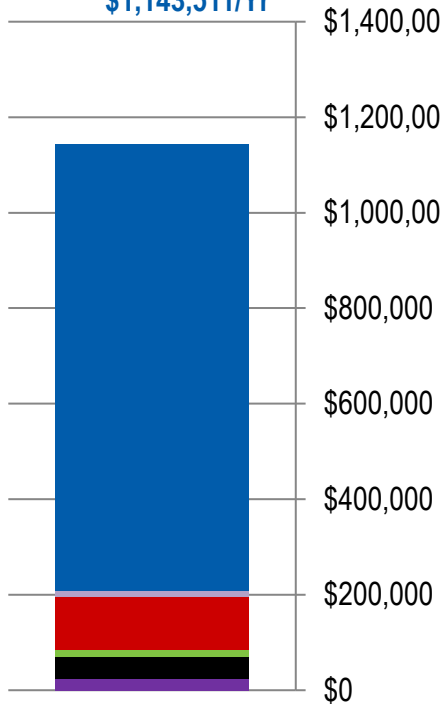


NRW Components Summary

Total Volume of NRW = 1,659 ML/Yr



Total Cost of NRW = \$1,143,511/Yr



	Volume ML/Yr	Value \$/Yr	Basis of Valuation
Apparent Losses	77.2	\$136,521	CRUC
Real Losses	1,470.1	\$935,003	VPC
Unbilled Authorized Cons	111.8	\$71,074	VPC
Non-Revenue Water	1,659.0	\$1,142,598	Blended

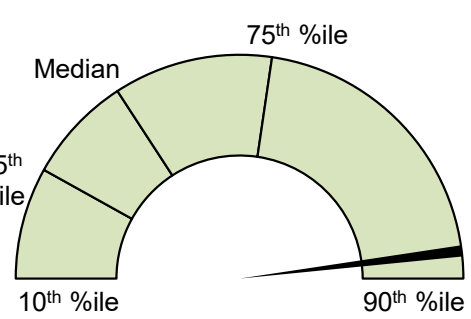
	Real Losses		Unauthorized Consumption
	Systematic Data Handling Errors		Unbilled Unmetered Auth Cons
	Customer Metering Inaccuracies		Unbilled Metered Authorized Cons

1 US\$ = 0.737 Local enter current conversion rate for local currency

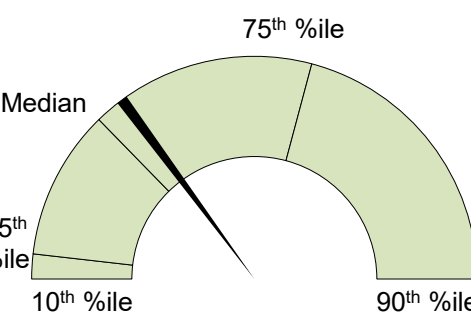
Key Performance Indicators

gauge %iles per validated industry ranges²

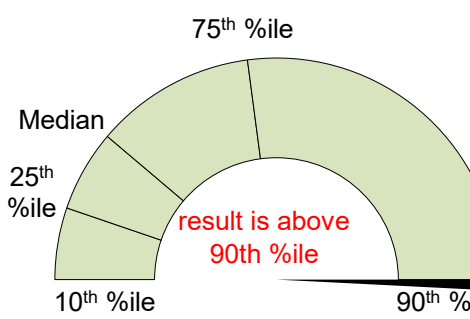
Total Loss Cost Rate
74.70 \$/conn/year



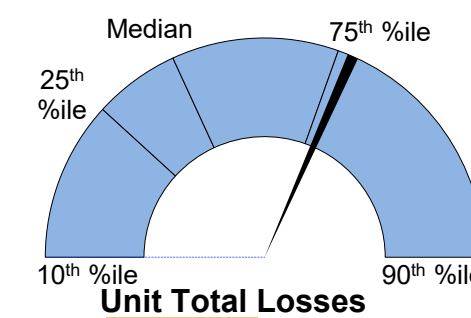
Apparent Loss Cost Rate
9.52 \$/conn/year



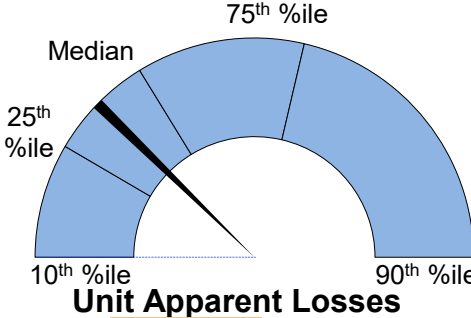
Real Loss Cost Rate
65.18 \$/conn/year



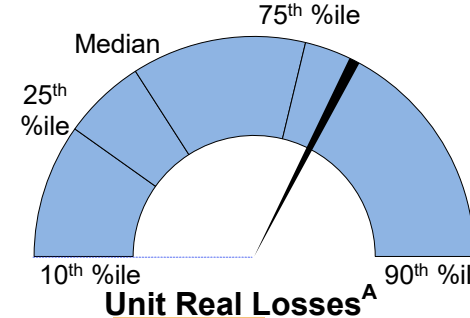
Unit Total Losses
295.5 litres/conn/day



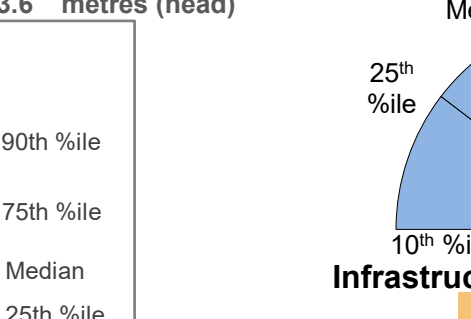
Unit Apparent Losses
14.7 litres/conn/day



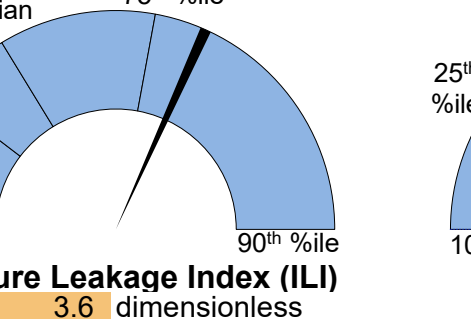
Unit Real Losses^A
280.8 litres/conn/day



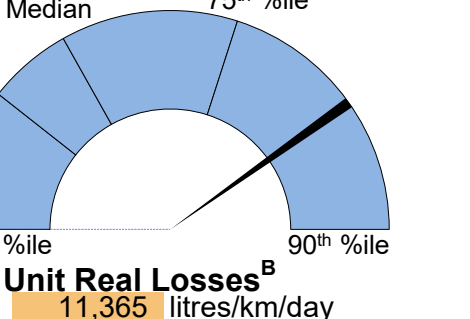
Average Operating Pressure
53.6 metres (head)



Infrastructure Leakage Index (ILI)
3.6 dimensionless



Unit Real Losses^B
11,365 litres/km/day



See UARL definition for additional guidance on the ILI

(UARL) Unavoidable Annual Real Losses	413.1 ML/Yr	78.9 litres/conn/day
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Guidance Information for Key Performance

The eight indicators shown are the recommended suite per the AWWA Water Loss Control Committee 2020 Position on KPIs¹.

A suite of KPIs is necessary, as no single KPI can holistically communicate water loss performance for a given water system.

See Table 1 below for Uses and Limitations for each KPI, excerpted from the AWWA Water Loss Control Committee Report (2020)¹, with naming conventions updated.

Percentiles (%iles) shown on KPI gauges come from Level 1 validated data in the AWWA WLCC Reference Water Audit Dataset (2020)².

KPI %iles shown above are not segregated by cohorts. Limited

KPI data by cohorts may be found in WRF 4695 Guidance Manual, Appendix B (2019)⁵.

Actual KPI results that fall below 10th %ile or above 90th %ile do not necessarily imply error, but should be viewed with scrutiny.

Percentiles not intended to imply targets. Targets may be input by user for operational KPIs, if desired, on Worksheet.

See UARL and ILI in Definitions tab for discussion of size and pressure limitations.

Systems that fall on the extreme ends of size or connection density should use caution when interpreting Unit Losses KPIs.