



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0
American Water Works Association
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Water Audit Report for: **City of Rio Rancho**
Reporting Year: **2015** **1/2015 - 12/2015**

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: MILLION GALLONS (US) PER YEAR

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

WATER SUPPLIED

Volume from own sources: [+](#) [?](#) [7](#) 3,456.700 MG/Yr
Water imported: [+](#) [?](#) MG/Yr
Water exported: [+](#) [?](#) MG/Yr

Master Meter and Supply Error Adjustments

Pcnt: [+](#) [?](#) [3](#) 0.00% [●](#) [○](#) MG/Yr
[+](#) [?](#) [○](#) MG/Yr
[+](#) [?](#) [○](#) MG/Yr

Enter negative % or value for under-registration
Enter positive % or value for over-registration

WATER SUPPLIED: **3,456.700** MG/Yr

AUTHORIZED CONSUMPTION

Billed metered: [+](#) [?](#) [4](#) 2,973.710 MG/Yr
Billed unmetered: [+](#) [?](#) MG/Yr
Unbilled metered: [+](#) [?](#) MG/Yr
Unbilled unmetered: [+](#) [?](#) [6](#) 59.076 MG/Yr
Unbilled Unmetered volume entered is greater than the recommended default value

AUTHORIZED CONSUMPTION: **3,032.786** MG/Yr

Click here: [?](#)
for help using option
buttons below

Pcnt: [○](#) [●](#) 59.076 MG/Yr

Use buttons to select
percentage of water
supplied
OR
value

Pcnt: [○](#) [●](#) 0.25% Value: [○](#) [●](#) MG/Yr

[○](#) [●](#) 21.136 MG/Yr
[○](#) [●](#) 5.000 MG/Yr

WATER LOSSES (Water Supplied - Authorized Consumption)

Apparent Losses

Unauthorized consumption: [+](#) [?](#) 8.642 MG/Yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed
Customer metering inaccuracies: [+](#) [?](#) [3](#) 21.136 MG/Yr
Systematic data handling errors: [+](#) [?](#) [10](#) 5.000 MG/Yr

Apparent Losses: **34.778** MG/Yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: [?](#) **389.136** MG/Yr

WATER LOSSES: **423.914** MG/Yr

NON-REVENUE WATER

NON-REVENUE WATER: **482.990** MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains: [+](#) [?](#) [9](#) 577.0 miles
Number of active AND inactive service connections: [+](#) [?](#) [9](#) 33,754
Service connection density: [?](#) 58 conn./mile main

Are customer meters typically located at the curbside or property line? [Yes](#)

Average length of customer service line: [+](#) [?](#) (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: [+](#) [?](#) [7](#) 70.0 psi

COST DATA

Total annual cost of operating water system: [+](#) [?](#) [10](#) \$23,298,633 \$/Year
Customer retail unit cost (applied to Apparent Losses): [+](#) [?](#) [10](#) \$10.66 \$/1000 gallons (US)
Variable production cost (applied to Real Losses): [+](#) [?](#) [5](#) \$735.87 \$/Million gallons ☐ Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 68 out of 100 *****

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

1: Volume from own sources

2: Billed metered

3: Customer metering inaccuracies