



# AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0  
American Water Works Association.  
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? Click to access definition  
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**Water Audit Report for:** Lake Arrowhead Community Services District  
**Reporting Year:** 2015    7/2014 - 6/2015

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: ACRE-FEET 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**

----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+ ?	7	1,253.110	acre-ft/yr
Water imported:	+ ?	8	176.830	acre-ft/yr
Water exported:	+ ?			acre-ft/yr

**Master Meter and Supply Error Adjustments**

Pcnt:	Value:	
+ ? 9	1.50%	<input checked="" type="radio"/> <input type="radio"/>
+ ? 9	1.00%	<input checked="" type="radio"/> <input type="radio"/>
+ ?		<input checked="" type="radio"/> <input type="radio"/>

**WATER SUPPLIED:** 1,409.670 acre-ft/yr

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

**AUTHORIZED CONSUMPTION**

Billed metered:	+ ?	9	978.750	acre-ft/yr
Billed unmetered:	+ ?			acre-ft/yr
Unbilled metered:	+ ?	10	5.290	acre-ft/yr
Unbilled unmetered:	+ ?		17.621	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

**AUTHORIZED CONSUMPTION:** 1,001.661 acre-ft/yr

Click here: ?  
for help using option buttons below

Pcnt: 1.25%    Value:  acre-ft/yr

Use buttons to select percentage of water supplied OR value

Pcnt: 0.25%    Value:  acre-ft/yr

Pcnt: 0.25%    Value:  acre-ft/yr

**WATER LOSSES (Water Supplied - Authorized Consumption)**

408.009 acre-ft/yr

**Apparent Losses**

Unauthorized consumption: + ? 3.524 acre-ft/yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies: + ? 3 0.000 acre-ft/yr  
Systematic data handling errors: + ? 2.447 acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 5.971 acre-ft/yr

**Real Losses (Current Annual Real Losses or CARL)**

Real Losses = Water Losses - Apparent Losses: 402.038 acre-ft/yr

**WATER LOSSES:** 408.009 acre-ft/yr

**NON-REVENUE WATER**

**NON-REVENUE WATER:** 430.920 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

**SYSTEM DATA**

Length of mains: + ? 8 125.0 miles  
Number of active AND inactive service connections: + ? 9 8,319  
Service connection density: ? 67 conn./mile main

Are customer meters typically located at the curbside or property line? Yes

Average length of customer service line: + ?

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 89.5 psi

**COST DATA**

Total annual cost of operating water system:	+ ?	10	\$6,117,702	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	8	\$3.01	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	9	\$661.00	\$/acre-ft

Use Customer Retail Unit Cost to value real losses

**WATER AUDIT DATA VALIDITY SCORE:**

\*\*\* YOUR SCORE IS: 75 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: Customer metering inaccuracies
- 3: Unauthorized consumption