



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0
American Water Works Association
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Water Audit Report for: Lake Arrowhead Community Services District (CA3610005)
Reporting Year: 2018 7/2017 - 6/2018

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' ----->	Master Meter and Supply Error Adjustments
Volume from own sources: + ? 5 1,090.730 acre-ft/yr	+ ? 3 0 0 acre-ft/yr	Pcnt: 0.00% Value: 0.000 acre-ft/yr
Water imported: + ? 7 253.130 acre-ft/yr	+ ? 1 0.00% 0 0 acre-ft/yr	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
Water exported: + ? n/a 0.000 acre-ft/yr		<input checked="" type="radio"/> <input type="radio"/>
Enter negative % or value for under-registration Enter positive % or value for over-registration		
WATER SUPPLIED: ? 1,343.860 acre-ft/yr		

AUTHORIZED CONSUMPTION		Click here: ? for help using option buttons below
Billed metered: + ? 6 1,147.900 acre-ft/yr		Pcnt: <input type="radio"/> <input checked="" type="radio"/> Value: 0.000 acre-ft/yr
Billed unmetered: + ? n/a 0.000 acre-ft/yr		
Unbilled metered: + ? 10 7.200 acre-ft/yr		
Unbilled unmetered: + ? 5 0.000 acre-ft/yr		
AUTHORIZED CONSUMPTION: ? 1,155.100 acre-ft/yr		

WATER LOSSES (Water Supplied - Authorized Consumption)		
	? 188.760 acre-ft/yr	
Apparent Losses		
Unauthorized consumption: + ? 3.360 acre-ft/yr		Pcnt: 0.25% <input checked="" type="radio"/> <input type="radio"/> Value: 0.000 acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed		
Customer metering inaccuracies: + ? 4 2.895 acre-ft/yr		<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
Systematic data handling errors: + ? 2.870 acre-ft/yr		<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed		
Apparent Losses: ? 9.124 acre-ft/yr		

Real Losses (Current Annual Real Losses or CARL)		
Real Losses = Water Losses - Apparent Losses: ? 179.636 acre-ft/yr		
WATER LOSSES:	? 188.760 acre-ft/yr	

NON-REVENUE WATER		
NON-REVENUE WATER: ? 195.960 acre-ft/yr		
<small>= Water Losses + Unbilled Metered + Unbilled Unmetered</small>		

SYSTEM DATA		
Length of mains: + ? 9 129.0 miles		
Number of <u>active AND inactive</u> service connections: + ? 8 8,356		
Service connection density: ? 65 conn./mile main		
Are customer meters typically located at the curbside or property line? ? Yes (length of service line, <u>beyond</u> 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 length of customer service line: + ? Average operating pressure: + ? 5 89.5 psi		

COST DATA		
Total annual cost of operating water system: + ? 10 \$5,579,729 \$/Year		
Customer retail unit cost (applied to Apparent Losses): + ? 9 \$3.74 \$/100 cubic feet (ccf)		
Variable production cost (applied to Real Losses): + ? 5 \$378.22 \$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses		

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 64 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: Billed metered