



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: 2014 7/2013 - 6/2014

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	1,558.560	acre-ft/yr
Water imported:	+	?	8	103.780	acre-ft/yr
Water exported:	+	?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:		
+	?	8	1.50%
+	?	8	1.00%
+	?		

WATER SUPPLIED: **1,638.280** acre-ft/yr

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

AUTHORIZED CONSUMPTION

Billed metered:	+	?	9	1,276.480	acre-ft/yr
Billed unmetered:	+	?	n/a		acre-ft/yr
Unbilled metered:	+	?	9	8.810	acre-ft/yr
Unbilled unmetered:	+	?		20.478	acre-ft/yr

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

AUTHORIZED CONSUMPTION: **1,305.768** acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:		
1.25%			

Use buttons to select percentage of water supplied
OR
value

Pcnt:	Value:		
0.25%			

0.25%			
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WATER LOSSES (Water Supplied - Authorized Consumption)

332.511 acre-ft/yr

Apparent Losses

Unauthorized consumption:	+	?		4.096	acre-ft/yr
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Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	+	?	7	0.000	acre-ft/yr
Systematic data handling errors:	+	?		3.191	acre-ft/yr

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

Apparent Losses: **7.287** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **325.224** acre-ft/yr

WATER LOSSES: **332.511** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **361.800** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	7	125.0	miles
Number of active AND inactive service connections:	+	?	9	8,302	
Service connection density:	?			66	conn./mile main

Are customer meters typically located at the curbstop 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:	+	?	8	89.5	psi
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COST DATA

Total annual cost of operating water system:	+	?	10	\$6,064,879	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	7	\$3.42	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	9	\$435.22	\$/acre-ft

Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 76 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: Unauthorized consumption
- 3: Systematic data handling errors