



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 (Deer Lodge Park) (CA3610087)
Reporting Year: 2019 7/2018 - 6/2019

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	17.110	acre-ft/yr
Water imported:	+	?	5	17.850	acre-ft/yr
Water exported:	+	?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

	+	?	3		
	+	?	3		
	+	?	3		

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

WATER SUPPLIED: 34.960 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+	?	7	31.093	acre-ft/yr
Billed unmetered:	+	?	n/a	0.000	acre-ft/yr
Unbilled metered:	+	?	10	0.348	acre-ft/yr
Unbilled unmetered:	+	?	5	0.087	acre-ft/yr

AUTHORIZED CONSUMPTION: 31.528 acre-ft/yr

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

	+	?	10		
	+	?	10		
	+	?	10		

Use buttons to select percentage of water supplied
OR
value

WATER LOSSES (Water Supplied - Authorized Consumption)

3.432 acre-ft/yr

Apparent Losses

Unauthorized consumption: 0.087 acre-ft/yr

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

Customer metering inaccuracies:	+	?	5	0.158	acre-ft/yr
Systematic data handling errors:	+	?	5	0.078	acre-ft/yr

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

Apparent Losses: 0.323 acre-ft/yr

	+	?	25		
	+	?	25		
	+	?	25		

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 3.108 acre-ft/yr

WATER LOSSES: 3.432 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 3.867 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	9	1.1	miles
Number of <u>active AND inactive</u> service connections:	+	?	8	215	
Service connection density:	+	?	197	197	conn./mile main

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

Average length of customer service line: 0 (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: 68.0 psi

COST DATA

Total annual cost of operating water system:	+	?	10	\$222,873	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	9	\$3.81	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	5	\$766.16	\$/acre-ft

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: Water imported

2: Volume from own sources

3: Customer metering inaccuracies