



# AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association  
Copyright © 2014. All Rights Reserved.

Click to access definition  
 Click to add a comment

**Water Audit Report for:** Lake Arrowhead Community Services District (Rimforest) (CA3610045)  
**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

Volume from own sources:   acre-ft/yr  
Water imported:   acre-ft/yr  
Water exported:   acre-ft/yr

**WATER SUPPLIED:** 37.880 acre-ft/yr

### Master Meter and Supply Error Adjustments

Enter grading in column 'E' and 'J' -----> Pcnt:  Value:  acre-ft/yr  
 acre-ft/yr  
 acre-ft/yr

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

### AUTHORIZED CONSUMPTION

Billed metered:   acre-ft/yr  
Billed unmetered:   acre-ft/yr  
Unbilled metered:   acre-ft/yr  
Unbilled unmetered:   acre-ft/yr

**AUTHORIZED CONSUMPTION:** 35.576 acre-ft/yr

Click here: for help using option buttons below

Pcnt:  Value:  acre-ft/yr

Use buttons to select percentage of water supplied OR value

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

2.304 acre-ft/yr

#### Apparent Losses

Unauthorized consumption:  0.095 acre-ft/yr

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

Customer metering inaccuracies:   acre-ft/yr

Systematic data handling errors:   acre-ft/yr

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

**Apparent Losses:** 0.362 acre-ft/yr

Pcnt:  Value:  acre-ft/yr

acre-ft/yr

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

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

**WATER LOSSES:** 2.304 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 2.399 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

Length of mains:   miles  
Number of active AND inactive service connections:    
Service connection density:  conn./mile main

Are customer meters typically located at the curbside or property 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:   psi

### COST DATA

Total annual cost of operating water system:   \$/Year  
Customer retail unit cost (applied to Apparent Losses):   \$/100 cubic feet (ccf)  
Variable production cost (applied to Real Losses):   \$/acre-ft  Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

**\*\*\* YOUR SCORE IS: 69 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: Customer metering inaccuracies
- 3: Variable production cost (applied to Real Losses)