



# AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0  
American Water Works Association  
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?	Click to access definition
+	Click to add a comment

Water Audit Report for: **Borough of Roosevelt Water Department**  
 Reporting Year: **2016**      1/2016 - 12/2016

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

**PLEASE CHOOSE REPORTING UNITS FROM THE INSTRUCTIONS SHEET BEFORE ENTERING DATA**

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:	+	?	5	29.417
Water imported:	+	?	n/a	0.000
Water exported:	+	?	n/a	0.000

**Master Meter and Supply Error Adjustments**

Pcnt:	+	?	?	Value:
	+	?	?	Value:
	+	?	?	Value:

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

**WATER SUPPLIED: 29.417**

**AUTHORIZED CONSUMPTION**

Billed metered:	+	?	6	16.210
Billed unmetered:	+	?	n/a	0.000
Unbilled metered:	+	?	1	0.000
Unbilled unmetered:	+	?	?	0.368

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

**AUTHORIZED CONSUMPTION: 16.578**

Click here: ?  
for help using option buttons below

Pcnt:	+	?	?	Value:
1.25%	+	?	?	Value:

Use buttons to select percentage of water supplied  
OR value

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

**12.839**

**Apparent Losses**

Unauthorized consumption:	+	?	?	0.074
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Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	+	?	6	0.000
Systematic data handling errors:	+	?	?	0.041

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

**Apparent Losses: 0.114**

Pcnt:	+	?	?	Value:
0.25%	+	?	?	Value:

0.25%	+	?	?	Value:
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**Real Losses (Current Annual Real Losses or CARL)**

Real Losses = Water Losses - Apparent Losses: **12.725**

**WATER LOSSES: 12.839**

**NON-REVENUE WATER**

**NON-REVENUE WATER: 13.207**

= Water Losses + Unbilled Metered + Unbilled Unmetered

**SYSTEM DATA**

Length of mains:	+	?	5	4.8
Number of active AND inactive service connections:	+	?	7	300
Service connection density:	?	?	?	63

Are customer meters typically located at the curbside or property line? **No**  
 Average length of customer service line: **60.0**

(length of service line, beyond the property boundary, that is the responsibility of the utility)

Average operating pressure: **45.0**

**COST DATA**

Total annual cost of operating water system:	+	?	9	\$356,200	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	5	\$15.50	\$/1000 gallons (US)
Variable production cost (applied to Real Losses):	+	?	3	\$8.00	\$/

Use Customer Retail Unit Cost to value real losses

**WATER AUDIT DATA VALIDITY SCORE:**

**\*\*\* YOUR SCORE IS: 53 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: Variable production cost (applied to Real Losses)

3: Billed metered