

AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0
American Water Works Association.

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Water Audit Report for: LaFollette Utilities Board (0000374)

Reporting Year: 2017 | 7/2016 - 6/2017

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: MILLION GALLONS (US) PER YEAR

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+	?	9	663.308	MG/Yr	+	?	7	1.00%	20.272	MG/Yr
Water imported:	+	?	9	0.000	MG/Yr	+	?				MG/Yr
Water exported:	+	?	10	0.000	MG/Yr	+	?				MG/Yr
WATER SUPPLIED:				656.741	MG/Yr						

Master Meter and Supply Error Adjustments

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

AUTHORIZED CONSUMPTION

Billed metered:	+	?	10	410.848	MG/Yr
Billed unmetered:	+	?	10	0.102	MG/Yr
Unbilled metered:	+	?	9	15.043	MG/Yr
Unbilled unmetered:	+	?	9	8.209	MG/Yr
AUTHORIZED CONSUMPTION:				434.202	MG/Yr

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

Click here: ?
for help using option buttons below

Pcnt: Value:

Use buttons to select percentage of water supplied OR value

Pcnt: Value:

WATER LOSSES (Water Supplied - Authorized Consumption)

222.538 MG/Yr

Apparent Losses

Unauthorized consumption:	+	?	10	1.642	MG/Yr
Customer metering inaccuracies:	+	?	9	0.000	MG/Yr
Systematic data handling errors:	+	?	5	1.027	MG/Yr
Apparent Losses:				2.669	MG/Yr

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

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

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **219.869** MG/Yr

WATER LOSSES: **222.538** MG/Yr

NON-REVENUE WATER

NON-REVENUE WATER: ? **245.791** MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	9	700.0	miles
Number of <u>active AND inactive</u> service connections:	+	?	9	9,992	
Service connection density:	?			14	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: + ? 9 0.0 ft

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: + ? 9 125.0 psi

COST DATA

Total annual cost of operating water system:	+	?	10	\$4,476,314	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	10	\$13.04	\$/1000 gallons (US)
Variable production cost (applied to Real Losses):	+	?	10	\$564.43	\$/Million gallons <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 90 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:
- 2:
- 3:



**AWWA Free Water Audit Software:
System Attributes and Performance Indicators**

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*** YOUR WATER AUDIT DATA VALIDITY SCORE IS: 90 out of 100 ***

System Attributes:

Apparent Losses:	<input type="text" value="2.669"/>	MG/Yr
+ Real Losses:	<input type="text" value="219.869"/>	MG/Yr
= Water Losses:	<input type="text" value="222.538"/>	MG/Yr

? Unavoidable Annual Real Losses (UARL): MG/Yr

Annual cost of Apparent Losses:

Annual cost of Real Losses: Valued at **Variable Production Cost**

Return to Reporting Worksheet to change this assumption

Performance Indicators:

Financial: { Non-revenue water as percent by volume of Water Supplied:
 Non-revenue water as percent by cost of operating system: Real Losses valued at Variable Production Cost

Operational Efficiency: { Apparent Losses per service connection per day: gallons/connection/day
 Real Losses per service connection per day: gallons/connection/day
 Real Losses per length of main per day*: gallons/mile/day
 Real Losses per service connection per day per psi pressure: gallons/connection/day/psi

From Above, Real Losses = Current Annual Real Losses (CARL): million gallons/year

? Infrastructure Leakage Index (ILI) [CARL/UARL]:

* This performance indicator applies for systems with a low service connection density of less than 32 service connections/mile of pipeline