

WATER LOSS LEGISLATIVE REPORT FOR 2020

PREPARED BY: INDIANA FINANCE AUTHORITY

ACKNOWLEDGMENTS

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EXECUTIVE SUMMARY

As required by IC 8-1-30.8, the Indiana Finance Authority (“IFA”) submits to the Indiana General Assembly the results of the State’s 2020 non-revenue water analysis in this first biennial report.

In 2020, 473 utilities out of 519 utilities (91% of metered drinking water utilities) submitted a validated water audit based on data from calendar year 2019. The results of this report found that the state-wide total of non-revenue water amounted to over 46.7 billion gallons, costing these utilities over \$58.4 million in lost revenue.

Data gathered through performing a water audit can bring to light opportunities for improvement in a utility’s water management process. More efficient operations lead to financial savings for the utility, a longer lifespan for infrastructure, and preservation of Indiana’s water resources.

INTRODUCTION

In an effort to better understand non-revenue water, in 2019, the Indiana Legislature enacted Senate Enrolled Act 4 (IC 8-1-30.8) which obligates water utilities to complete an annual water loss audit. To improve accuracy of water loss audit data, the legislation also requires these water loss audits to be validated by a certified, third party water audit validator (“Certified Validator”) in every even-numbered year. Water utilities must submit these validated water loss audits to the Indiana Finance Authority (“IFA”) for compilation into a biennial report to the Indiana General Assembly. This is the first biennial report, which summarizes calendar year 2019 data that was submitted to the IFA in 2020.

A water audit tracks all sources and uses of water within a water system over a specified period. Water loss audits are a valuable tool in maintaining the managerial, financial, and technical integrity of a water utility. Performing a water audit is an opportunity for a utility to evaluate the amount of water they produce compared to the amount of water it sells. Through this process, utilities are able to identify their non-revenue water. Non-revenue water is defined as produced water which does not generate income for the utility. Specifically, it is the portion of the total water supplied that consists of real losses from pipeline leakage; apparent losses when customer water consumption is not properly measured or billed; and unbilled authorized consumption, such as “no-cost” water provided to a municipal building, for example.

$$\textit{Real Losses} + \textit{Apparent Losses} + \textit{Unbilled Authorized Consumption} = \textit{Non-revenue Water}$$

See Figure 1.

Once these losses are identified, utilities can take corrective actions to reduce non-revenue water, which may lead to financial savings. For most utilities, completing an audit will identify what measures a utility should undertake to improve the efficiency of water production and delivery. Indiana utilities used the American Water Works Association (“AWWA”) Free Water Audit Software, which is the industry standard tool for conducting a water audit.

The IWA/AWWA Water Balance						
Volume From Own Sources (corrected for known errors)	System Input Volume	Water Exported (corrected for known errors)	Billed Water Exported			Revenue Water
		Water Supplied	Authorized Consumption	Billed Authorized Consumption	Billed Metered Consumption	Revenue Water
					Billed Unmetered Consumption	
Water Imported (corrected for known errors)	System Input Volume	Water Supplied	Water Losses	Unbilled Authorized Consumption	Unbilled Metered Consumption	Non-revenue Water
					Unbilled Unmetered Consumption	
				Apparent Losses	Customer Metering Inaccuracies	
			Real Losses	Leakage on Transmission and Distribution Mains	Leakage and Overflows at Utility's Storage Tanks	
					Leakage on Service Connections up to the Point of Customer Metering	

NOTE: All data in volume for the period of reference, typically one year.

Figure 1: International Water Association (“IWA”)/American Water Works Association (“AWWA”) Water Balance Table.

APPROACH

The IFA, in partnership with the Indiana Section of the AWWA, conducted no-cost water loss audit workshops around the state, where utilities received instruction on how to complete a water audit. At some workshops, utilities were able to complete their water audits onsite with the assistance of Indiana Section AWWA staff. In total, 12 Water Loss Audit Workshops were held, with 567 individuals in attendance.

To develop a pool of Certified Validators, the IFA, in partnership with the Indiana Section AWWA, also held ten two-day validation training workshops around the state. At the conclusion of the workshops, those interested in becoming a Certified Validator had the option to take the Indiana Water Loss Audit Validator certification exam. An individual may apply to be an Indiana Certified Validator by 1) passing the Indiana Water Loss Audit Validator certification exam, or 2) possessing a valid water loss audit validator certificate from the CA-NV AWWA or be a Qualified Water Loss

Auditor in the state of Georgia. Overall, 222 participants attended these workshops, with 148 participants passing their tests and becoming Certified Validators.

Through the course of the project, the IFA, the Indiana Section of the AWWA, the Indiana Rural Community Assistance Program, and other partners such as the Indiana Department of Environmental Management and the Indiana Alliance of Rural Water, regularly distributed information to utilities about resources available to help complete the audit. In addition to in-person trainings, assistance was available on the IFA website, by email, and by phone (e.g., “the Water Loss Hotline”). Once the deadline to submit validated water loss audits passed on January 1, 2021, IFA, in partnership with the Indiana Rural Community Assistance Program, reached out to 194 non-responsive utilities no less than three times, through emails and by phone calls, and continued to assist utilities in the completion of their audits. After the January 1st deadline, 148 additional water audits were received, which brought the total received to 473 or 91%.

Upon receipt of each validated water audit, IFA conducted a *completeness* review and contacted utilities and/or their Certified Validators when data was found to be missing. Except in a very few cases, the IFA did not review the *accuracy* of the data provided, since ensuring quality data is the role of the Certified Validator. However, in preparing this state-wide summary, data was found that fell outside acceptable ranges, according to industry standards, including the 2018 AWWA Water Audit Dataset Report¹. To help utilities get the most out of future audits, the IFA will convey to utilities with “improbable” data that additional scrutiny of their data may be warranted. Nevertheless, relying on the accuracy of the work of validators, all data² received was included in the analysis performed in the creation of this report.

DISCUSSION OF RESULTS

In 2020, 473 utilities, or 91% of drinking water utilities that sell water to customers through meters, submitted a water audit. Water audit completion requires analysis of utility data that includes:

- volumes of water produced, imported, and exported,
- billed and unbilled metered water,
- billed and unbilled unmetered water,
- variable production cost,

¹ AWWA Water Audit Reference Dataset (2018). AWWA.

² One validated water audit was excluded in the data analysis due to an abundance of improbable data

- customer retail unit cost,
- physical characteristics of the water system, and
- water meter testing and calibration records,

from which a range of benchmarks can be calculated.

The most referenced benchmarks are:

- **Volume of Non-revenue Water,**
- **Cost of Non-revenue Water,**
- **Apparent Losses,**
- **Real Losses,**
- **Infrastructure Leakage Index and**
- **Data Validity Grades.**

This report will focus on the results of these key benchmarks, which are identified for each utility in Appendix A at the end of this document. Appendix B, on the other hand, is a separate, Excel-based dataset that is a compilation of the submitted water audit data.

It is important to note that the 2020 water audits were submitted using the version 5.0 AWWA water audit software, which utilizes percentage (volumetric) indicators. Moving forward, version 6.0 will be utilized, and benchmarks based on percentages will be phased out. As recommended by industry professionals, two new Key Performance Indicators, Loss Cost Rate and Normalized Water Losses, which are more reliable and better define the impact of water loss, will take their place.³

Volume of Non-revenue Water

Non-revenue water (“NRW”) represents water that is not billed and does not produce revenue. NRW equals unbilled authorized consumption plus apparent and real losses.

For the purpose of this analysis, utilities were characterized as very small (0-500), small (501-3,300), medium (3,301-10,000), large (10,001-100K), and very large (>101K). Figure 2 illustrates how the total volume of NRW changes based on the size of the utility.

³ Key Performance Indicators for Non-revenue Water (November 2019). AWWA Water Loss Control Committee Report.

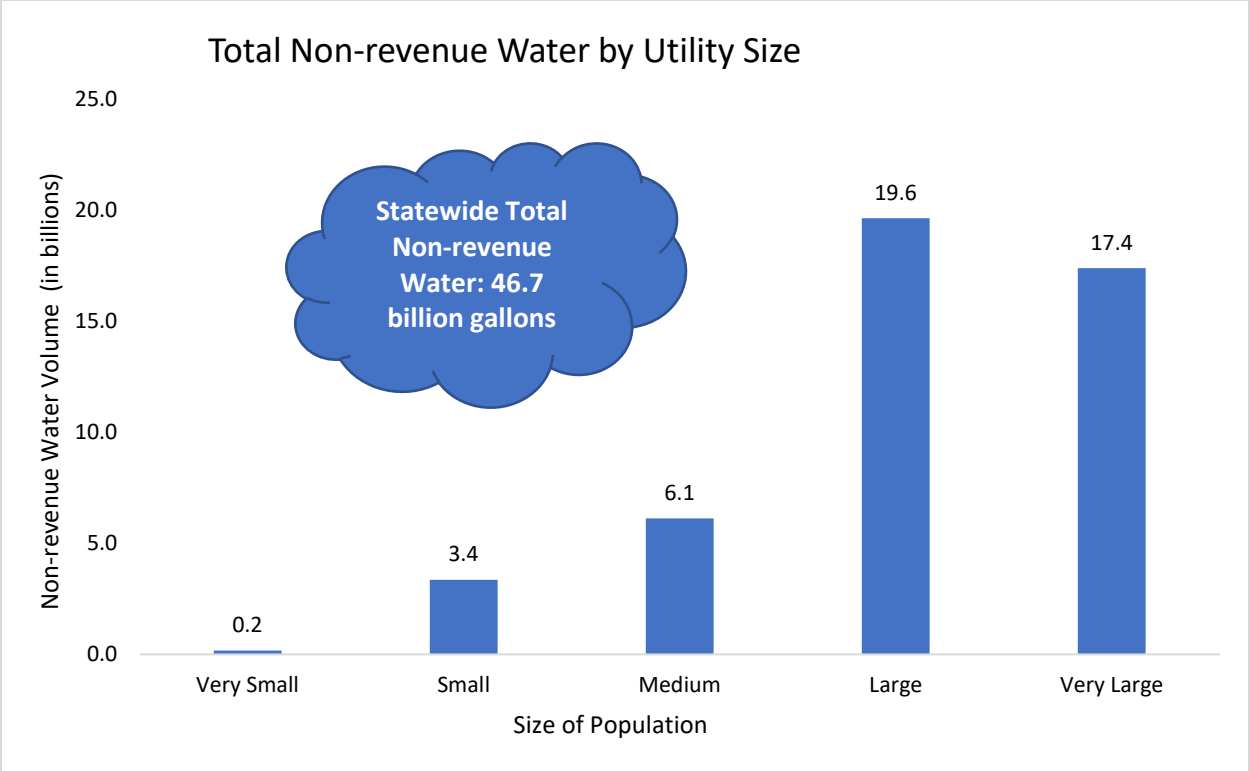


Figure 2: Total volume non-revenue water in each population category in billions of gallons.

In general, non-revenue water varies by the size of the utility. Pipe length and the number of service connections a utility manages are often correlated to real losses. As population increases, the number of service connections increases, and length of pipe often increases as well. Due to this, it is likely that non-revenue water loss will also increase as population increases. State-wide non-revenue water totaled 46.7 billion gallons.

The percentage of non-revenue water by volume supplied has long been used to benchmark water loss, despite its simplified, one-size-fits-all approach. As stated above, the IFA will phase out the use of volumetric benchmarks in future reports. However, since this effort produced volumetric benchmarks, they will be included. Figure 3 shows that non-revenue water by water supplied ranges from 22-27%, and the non-revenue water by operating costs ranges from 7-14%.

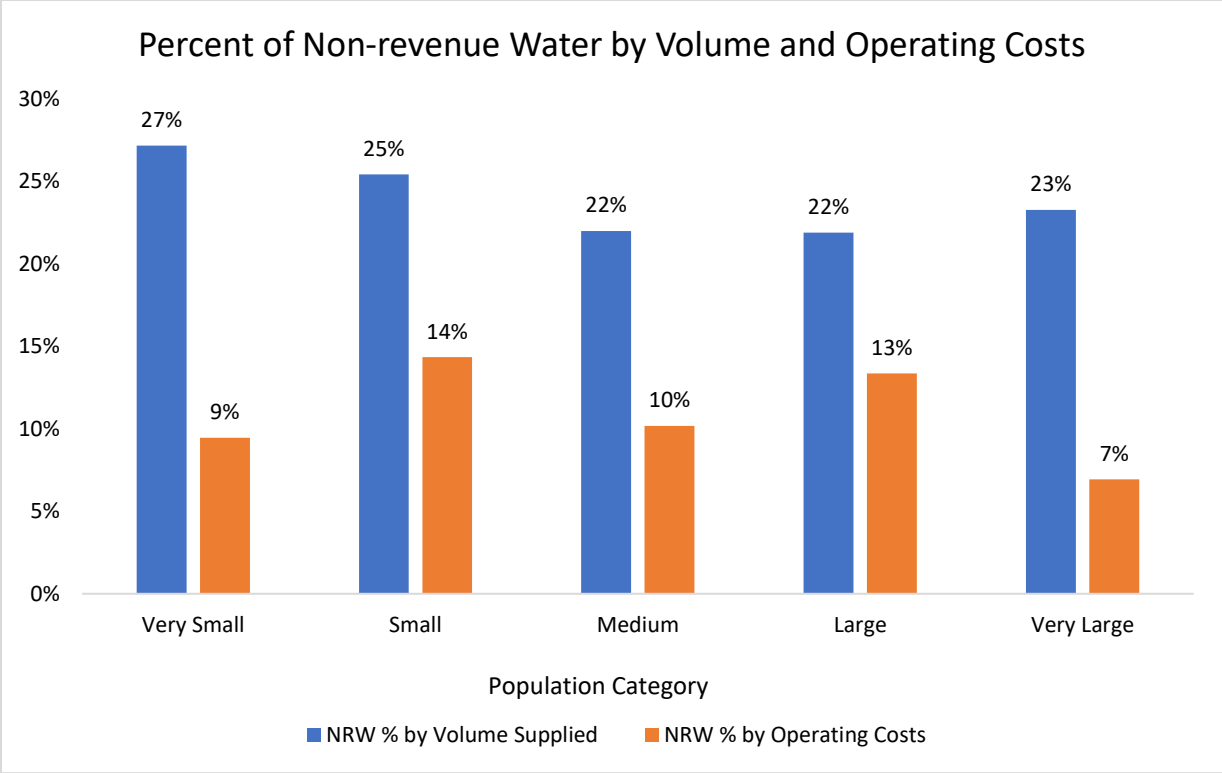


Figure 3: Non-revenue water as a percent by volume and non-revenue water as a percent by operating costs.

Cost of Non-revenue Water

The AWWA Free Water Loss Software assigns a cost of non-revenue water based on utility rate information provided in the audit. Figure 4 illustrates the cost of non-revenue water by utility size.

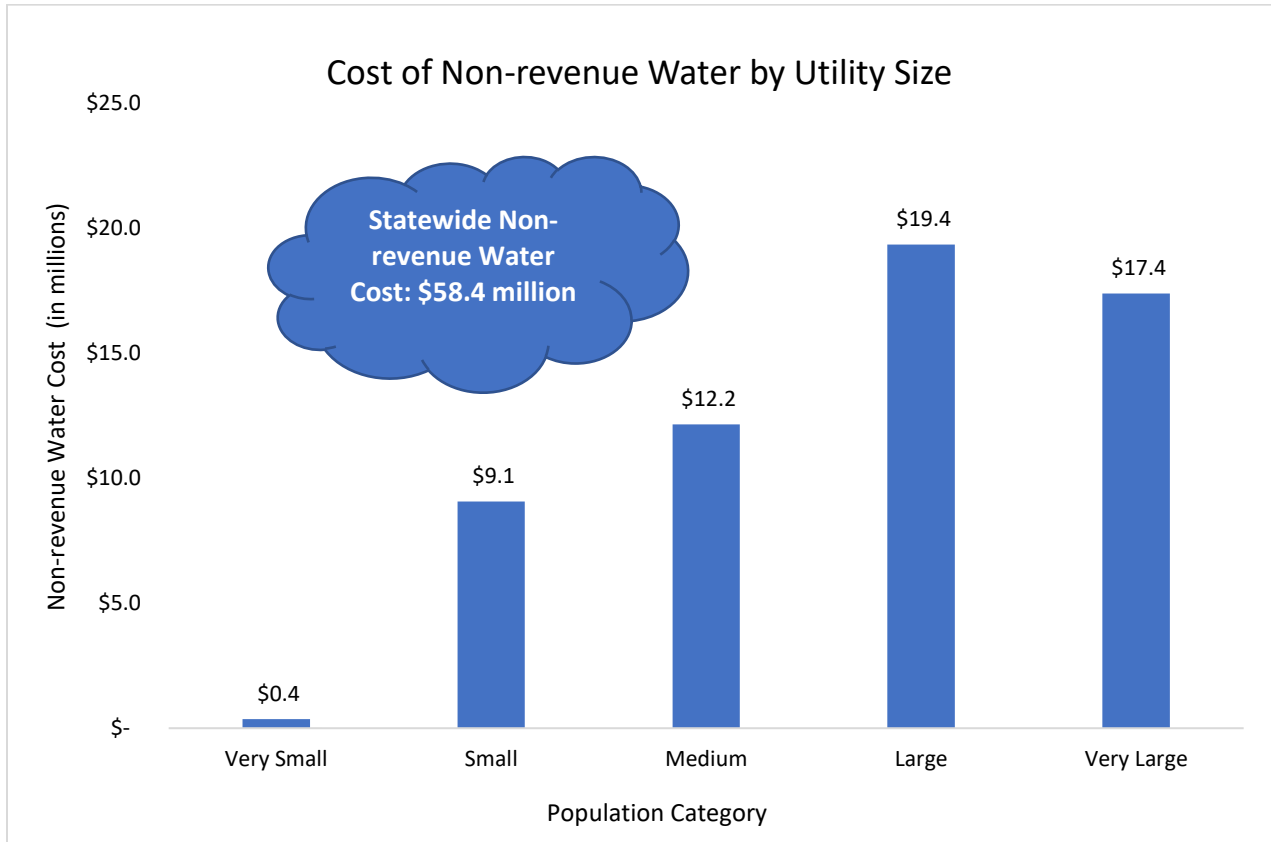


Figure 4: Total cost of non-revenue water for each population category

As expected, the cost is highest in utilities that serve large and very large communities due to larger non-revenue water volumes. The Statewide cost of non-revenue water is \$58,350,835.

Apparent Loss (gallons/service connection/day)

Apparent Losses are the nonphysical losses that occur due to inefficiencies in the measurement, recording, and accounting operations used to track water volumes in a water utility. These losses occur from three primary areas:

1. Systemic data handling errors in tracking customer consumption, particularly in customer billing systems
2. Customer metering inaccuracies
3. Unauthorized consumption

Typical values of Apparent Loss are between 1- 40 gallons/service connection/day. Figure 5, a distribution of Apparent Loss values, illustrates this range. The average Apparent Loss was 7.4 gallons/service connection/day and the most common Apparent Loss categories were 1, 3, or 6 gallons/service connection/day.

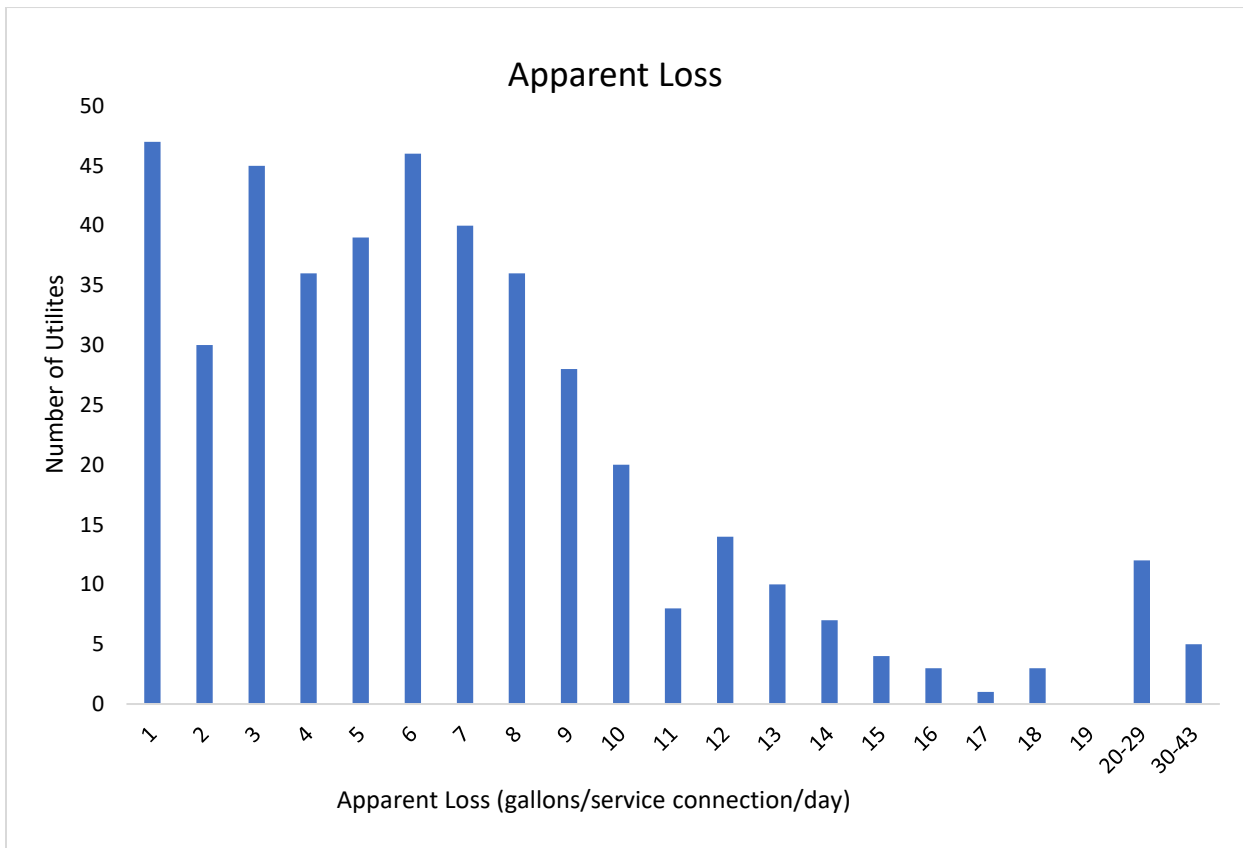


Figure 5: Apparent Loss reported within the 1-43 gallon/service connection/day range.

Real Loss (gallons/service connection/day)

Real Losses are the physical losses of treated water. For most utilities, leakage is the greatest portion of real losses. High leakage losses may require larger infrastructure capacity than are needed to meet customer demands, which may mean more money will be spent trying to expand and rehabilitate this infrastructure than is needed.

An expected range of Real Losses is between 20-100 gallons/connection/day. Figure 6, a distribution of Real Loss values, illustrates this range. Half of the utilities reported having a Real Loss between 20-39 gallons/connection/day, with an overall average Real Loss of 47.96 gallons/connection/day.

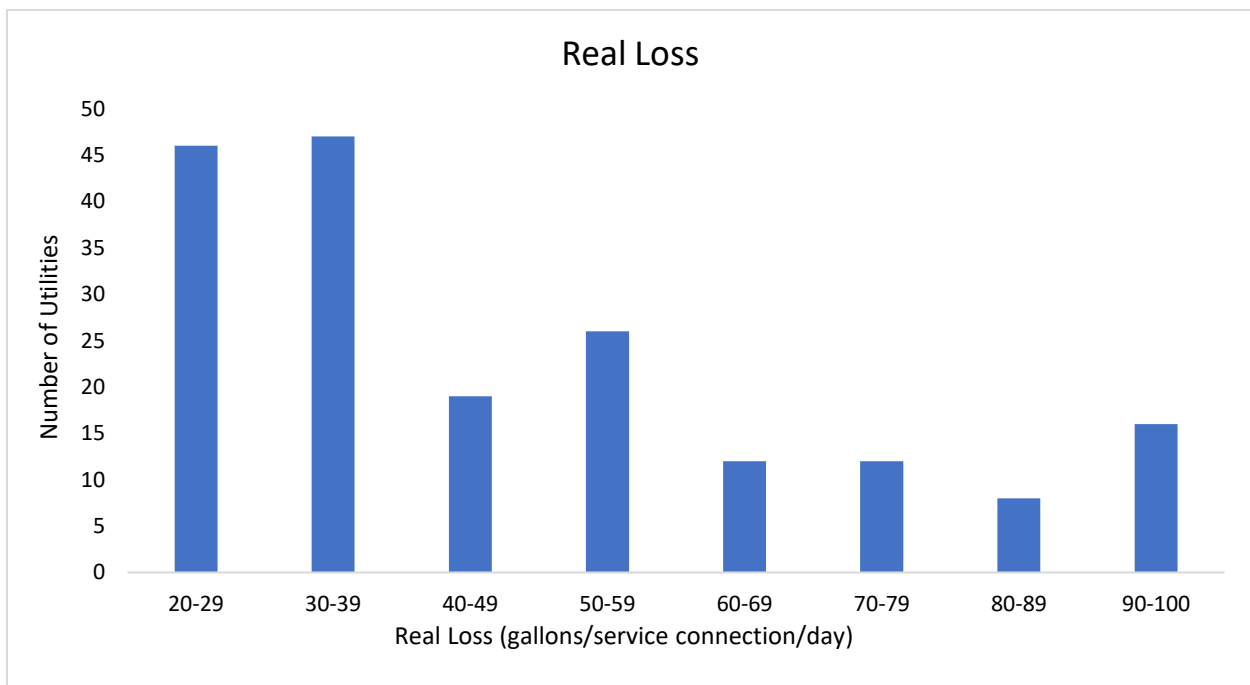


Figure 6: Real Loss in gallons/service connection/day, categorized by ranges in increments of ten gallons.

Infrastructure Leakage Index

The Infrastructure Leakage Index (“ILI”) is a performance indicator quantifying how well a distribution system is maintained for the control of real leakage losses. The ILI is the ratio of current annual real losses (“CARL”) to unavoidable annual real losses (“UARL”). On average, an ILI value is expected to be greater than one, because a value less than one would indicate an unrealistically low amount of leakage. However, values less than one are possible in smaller systems of less than 3,000 service connections and in flexible pipe systems when pressures are

less than 40 psi.⁴ Figure 7, an ILI distribution graph, shows that most utilities reported an ILI between 1-3 and 66 water audits had an ILI less than one.

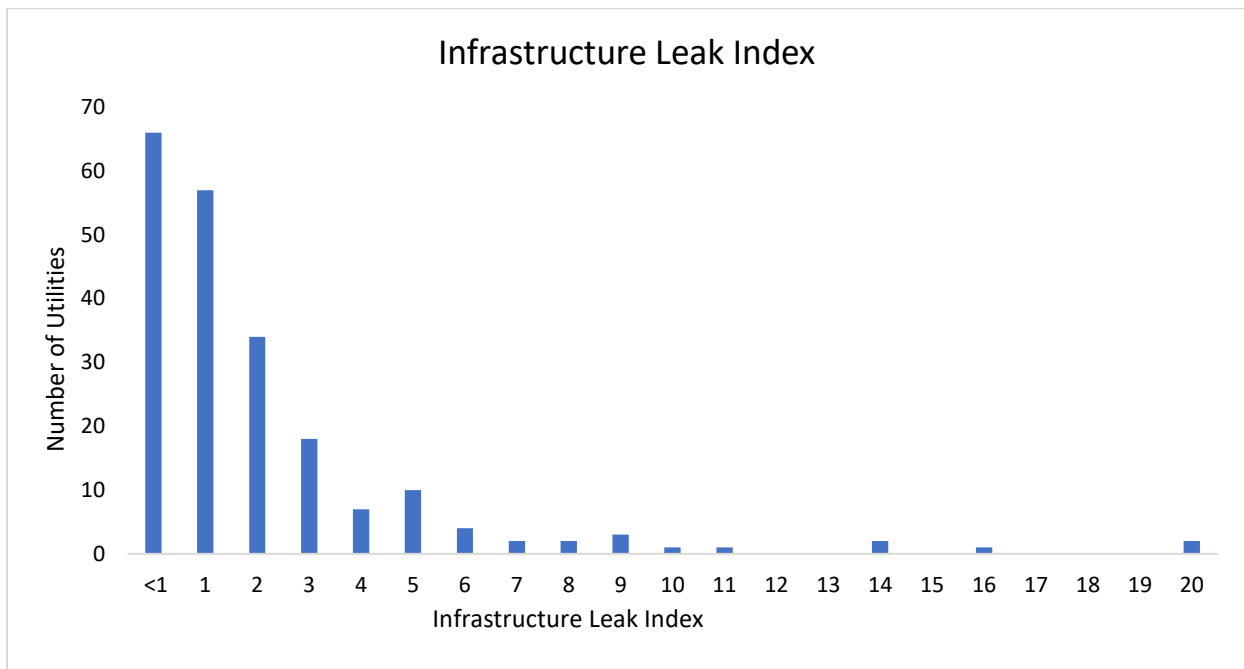


Figure 7: the distribution of utilities' Infrastructure Leakage Indexes, rounded to the nearest whole number.

Data Validity Grade

When an auditor inputs primary water data into the Reporting Worksheet of the Audit Software that will be used to calculate system performance indicators, the auditor is asked to select data gradings. Data Validity Grades (DVGs) are a rating of validity, unique for each data input. Using these data gradings, an overall Data Validity Score (DVS) is calculated by water audit software. This serves as a measure of the overall data validity and robustness of the water audit.

In reviewing the 2019 water audit data, the lowest DVS received was 20, while the highest was 93. Figure 1 shows that the majority of DVSs were in the 40-69 range, with an average DVS of 55.

A low DVS can be a result when rough estimates are used, or poorly organized paper records are used to tally the total. Conversely, a high DVS can only occur as a result of using highly accurate records (e.g., a utility who maintains detailed GIS records of the length of water mains in their system).

⁴ Water Audits and Loss Control Programs, MS4: Fourth Edition (2016). AWWA (American Water Works Association).

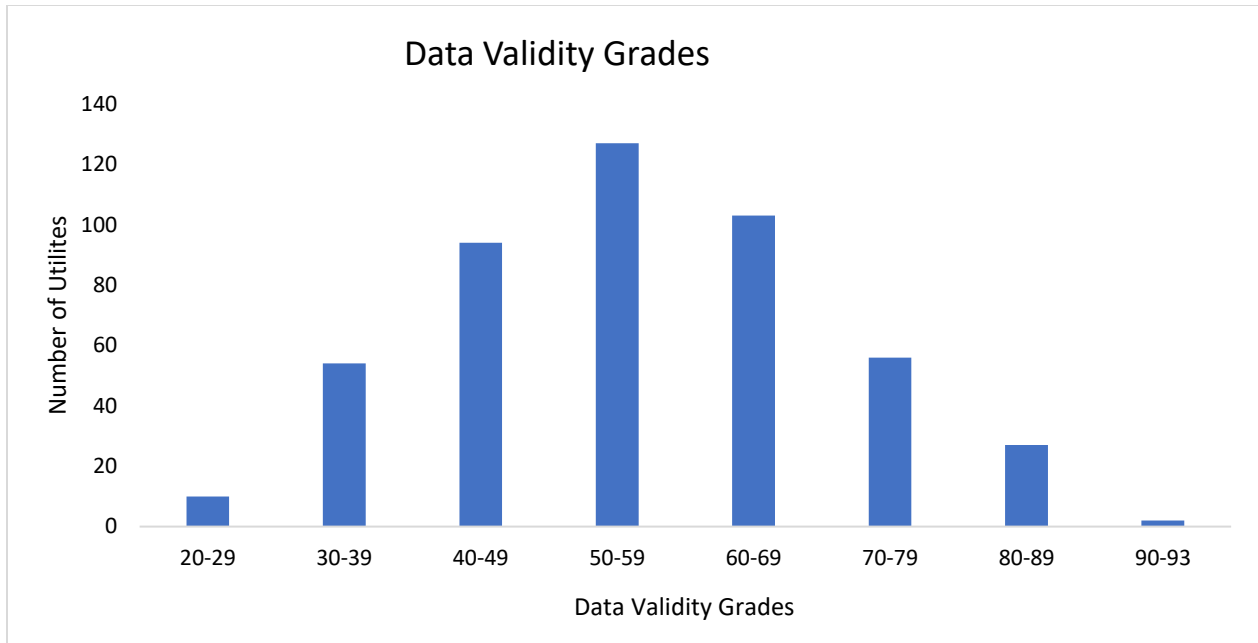


Figure 3: Distribution of 2019 Data Validity Grades shown in increments of 10.

CONCLUSION

This report found that, in 2019, Indiana utilities produced over 47.5 billion gallons of water that did not generate revenue, resulting in a financial loss of approximately \$58.4 million.

The purpose of performing a water loss audit is to identify where losses are occurring, the *volume* of the losses, how much those losses are costing the utility (*value*), and how reliable the data is (*validity*) that was used to track the losses. Through the identification of these three variables, it is possible to create a loss reduction plan, specific to each utility's system unique issues. When the water audit process is utilized in this way, it becomes a valuable tool to reduce water loss and improve operations.

A utility can find specific actions to reduce water loss and improve operations on the Loss Control Planning tab of the AWWA's Free Water Audit Software. Based on the utility's Data Validity Score, the software makes suggestions in five focus areas: audit data collection, short-term loss control, long-term loss control, target-setting, and benchmarking. Each of these focus areas suggests actions that utilities can take to reduce water loss and improve operations.

APPENDIX A:

PWSID	Utility Name	City	Submitted an audit?	Total NRW (million gallons/year)	Total Cost NRW
IN5258001	Aberdeen-Pate Water Co.	Aurora	Yes	52.47	\$ 81,302.21
IN5206001	Advance Water Works	Advance	Yes	1.02	\$ 10,324.94
IN5225001	Akron Water Department	Akron	Yes	6.75	\$ 14,637.45
IN5218001	Albany Water Department	Albany	No	unknown	unknown
IN5257001	Albion Water Dept	Albion	Yes	43.37	\$ 244,796.40
IN5248001	Alexandria Water Department	Alexandria	Yes	158.97	\$ 117,263.90
IN5214001	Alfordsville Water Utility	Alfordsville	Yes	0.10	\$ 4,179.77
IN5270003	Anderson Twp Regional Sewer District	Milroy	Yes	2.05	\$ 5,120.57
IN5248002	Anderson Water Department	Anderson	Yes	1496.85	\$ 934,212.18
IN5262001	And-Tro Water Authority	Tell City	Yes	10.39	\$ 70,170.29
IN5262003	And-Tro Water Authority	Tell City	Yes	9.12	\$ 94,247.47
IN5276001	Angola Water Utility	Angola	Yes	59.45	\$ 35,507.18
IN5271018	Aqua Indiana	Valparaiso	Yes	6.82	\$ 14,676.92
IN5229001	Arcadia Water Department	Arcadia	Yes	10.84	\$ 9,150.48
IN5250001	Argos Water Works	Argos	Yes	19.86	\$ 10,259.52
IN5276002	Ashley Water Dept	Ashley	Yes	8.80	\$ 13,875.99
IN5223001	Attica Water Utility	Attica	Yes	87.68	\$ 48,217.09
IN5217001	Auburn Water Department	Auburn	Yes	200.13	\$ 278,208.67
IN5215001	Aurora Utilities	Aurora	Yes	94.64	\$ 82,176.51
IN5253001	B&B Water Project, Inc	Bloomington	Yes	59.61	\$ 165,981.92
IN5267001	Bainbridge Water Works	Bainbridge	No	unknown	unknown
IN5241001	Bargersville Water Department	Bargersville	Yes	134.98	\$ 282,461.68
IN5269001	Batesville Water & Gas Utility	Batesville	Yes	72.90	\$ 30,335.63
IN5279002	Battle Ground Conservancy District	Battle Ground	Yes	17.71	\$ 12,836.29
IN5260001	BBP Water Corporation	Spencer	Yes	128.75	\$ 310,257.41
IN5247001	Bedford City Utilities	Bedford	Yes	87.73	\$ 94,010.39
IN5201001	Berne Water	Berne	Yes	28.84	\$ 21,453.76
IN5242001	Bicknell Water Utility	Bicknell	Yes	6.74	\$ 30,809.61

IN5267002	Big Walnut Water Company	Greencastle	Yes	7.50	\$ 84,626.73
IN5219001	Birdseye Water and Sewer	Birdseye	Yes	3.94	\$ 10,593.09
IN5261001	Bloomington Water Works	Bloomington	No	unknown	unknown
IN5213006	Blue River Regional Water District	Milltown	Yes	41.06	\$ 54,795.84
IN5290001	Bluffton Water Department	Bluffton	Yes	49.28	\$ 19,360.46
IN5287001	Boonville Water Utility	Boonville	Yes	54.63	\$ 114,868.46
IN5210002	Borden Tri-County Regional Water District	Borden	Yes	61.51	\$ 167,573.97
IN5250002	Bourbon Water Works	Bourbon	Yes	29.63	\$ 22,583.04
IN5211001	Brazil Water Works	Brazil	Yes	234.38	\$ 210,966.71
IN5220003	Bristol Water	Bristol	Yes	4.26	\$ 7,760.22
IN5256002	Brook Water Utility	Brook	Yes	1.82	\$ 3,846.47
IN5255002	Brooklyn Water Works	Brooklyn	No	unknown	unknown
IN5291002	Brookston	Brookston	Yes	16.96	\$ 21,115.39
IN5224001	Brookville Water Works	Brookville	Yes	18.37	\$ 21,908.59
IN5207001	Brown County Water Utility	Morgantown	Yes	197.04	\$ 297,974.62
IN5232002	Brownsburg Water Works	Brownsburg	Yes	120.09	\$ 140,945.54
IN5242003	Bruceville Water Utility	Bruceville	Yes	2.98	\$ 15,119.25
IN5252003	Bunker Hill Water Utility	Bunker Hill	Yes	3.34	\$ 28,269.09
IN5240001	Burnt Pines Water	North Vernon	Yes	1.40	\$ 10,233.50
IN5217003	Butler Water Department	Butler	Yes	12.78	\$ 38,649.29
IN5289002	Cambridge City Water Utility	Cambridge City	Yes	18.43	\$ 71,125.23
IN5208001	Camden Waterworks	Camden	Yes	9.03	\$ 50,571.10
IN5239001	Canaan Utilities	Canaan	Yes	28.52	\$ 80,445.28
IN5262002	Cannelton Utilities	Cannelton	Yes	12.45	\$ 6,413.72
IN5211002	Carbon Water Works	Carbon	Yes	11.97	\$ 47,251.78
IN5277001	Carlisle Municipal Water	Carlisle	Yes	11.64	\$ 56,551.52
IN5229024	Carmel Clay Water	Carmel	Yes	0.00	\$ 0.90
IN5229004	Carmel Water Department	Carmel	Yes	147.47	\$ 137,071.74
IN5270001	Carthage Water Department	Carthage	No	unknown	unknown
IN5260002	Cataract Lake Water Corporation	Cloverdale	Yes	16.32	\$ 111,743.93
IN5245047	Cedar Lake Municipal Water Utility	Cedar Lake	Yes	20.09	\$ 36,393.91
IN5211003	Center Point Water Works	Center Point	Yes	4.94	\$ 47,628.71

IN5287002	Chandler Waterworks	Chandler	Yes	50.09	\$ 238,656.19
IN5248004	Chesterfield Water Department	Chesterfield	Yes	25.14	\$ 24,644.01
IN5274001	Chrisney Water Works	Chrisney	Yes	4.00	\$ 26,268.01
IN5292003	Churubusco Water Department	Churubusco	Yes	31.89	\$ 34,570.36
IN5229005	Cicero Water Department	Cicero	Yes	24.75	\$ 30,521.08
IN5249004	Citizens Water Indianapolis	Indianapolis	Yes	8552.53	\$ 10,283,096.40
IN5229009	Citizens Water of Westfield, LLC	Westfield	Yes	361.69	\$ 418,845.37
IN5253002	City of Bloomington Utilities	Bloomington	Yes	1348.67	\$ 1,732,989.36
IN5215003	City of Greendale Utilities	Greendale	Yes	41.05	\$ 83,538.09
IN5257008	City of Kendallville Water Department	Kendallville	Yes	108.86	\$ 51,634.26
IN5246017	City of La Porte Water Department	La Porte	Yes	168.36	\$ 66,669.48
IN5249005	City of Lawrence Utilities	Lawrence	Yes	306.46	\$ 614,526.77
IN5257010	City of Ligonier	Ligonier	Yes	30.45	\$ 78,837.82
IN5239006	City of Madison Water	Madison	Yes	133.50	\$ 100,670.01
IN5247003	City of Mitchell Utilities	Mitchell	Yes	325.88	\$ 184,076.98
IN5205004	City of Montpelier Water Department	Montpelier	Yes	28.43	\$ 54,260.94
IN5220016	City of Nappanee	Nappanee	Yes	60.40	\$ 64,114.77
IN5202009	City of New Haven	New Haven	Yes	70.79	\$ 298,605.59
IN5250010	City of Plymouth Water Department	Plymouth	Yes	92.20	\$ 270,407.29
IN5237005	City of Rensselaer Water Department	Rensselaer	Yes	89.12	\$ 279,584.31
IN5202024	City of Woodburn	Woodburn	Yes	39.01	\$ 12,251.76
IN5279006	Clarks Hill Water Works	Clarks Hills	No	unknown	unknown
IN5243002	Claypool Water Works	Claypool	Yes	1.20	\$ 4,664.79
IN5283003	Clinton Township Water	Clinton	Yes	16.14	\$ 10,108.34
IN5283004	Clinton Water Utility	Clinton	Yes	80.89	\$ 277,991.33
IN5267003	Cloverdale Water Works	Cloverdale	Yes	20.39	\$ 47,770.83
IN5292004	Columbia City Water Dept.	Columbia City	Yes	56.02	\$ 179,808.46
IN5203002	Columbus City Utilities	Columbus	Yes	710.25	\$ 295,961.15
IN5245057	Community Utilities of Indiana Inc (IWS)	Merrillville	Yes	23.89	\$ 12,037.06
IN5237002	Community Utilities of Indiana Inc (WSC)	Demotte	Yes	3.56	\$ 551.99
IN5245046	Community Utilities of Indiana Inc. (Twin Lakes)	Crown Point	Yes	62.84	\$ 11,417.87
IN5221001	Connersville Utilities	Connersville	Yes	399.22	\$ 303,951.51

IN5252006	Converse Water Supply	Converse	Yes	14.01	\$ 132,412.47
IN5207004	Cordry-Sweetwater Conservancy District	Nineveh	Yes	30.31	\$ 97,482.66
IN5231001	Corydon Water Works	Corydon	Yes	148.20	\$ 83,235.74
IN5223002	Covington Water Department	Covington	No	unknown	unknown
IN5213001	Crawford County Water Co. Inc.	Marengo	Yes	14.74	\$ 150,958.66
IN5257004	Cromwell Water Works	Cromwell	Yes	3.52	\$ 9,180.46
IN5245008	Crown Point Public Works	Crown Point	Yes	68.38	\$ 217,293.86
IN5265004	Cynthiana Water Works	Cynthiana	Yes	1.82	\$ 25,947.88
IN5283005	Dana Water Works	Dana	No	unknown	unknown
IN5232004	Danville Water Department	Danville	Yes	39.52	\$ 114,884.22
IN5254003	Darlington Water	Darlington	Yes	3.22	\$ 46,847.57
IN5214002	Daviess County Rural Water Sys, Inc.	Washington	Yes	23.53	\$ 53,108.98
IN5279021	Dayton Water	Dayton	Yes	3.29	\$ 9,485.16
IN5216008	Decatur County Rural Water	Greensburg	Yes	4.02	\$ 21,472.89
IN5201002	Decatur Water Department	Decatur	Yes	111.25	\$ 139,159.69
IN5242004	Decker Water Works	Decker	No	unknown	unknown
IN5208002	Delphi Water Works	Delphi	Yes	73.38	\$ 101,233.70
IN5219002	Dubois Water Utilities, Inc.	Dubois	Yes	77.88	\$ 285,866.46
IN5219003	Duff Water Corporation	Huntingburg	Yes	4.48	\$ 16,037.11
IN5277002	Dugger Utilities	Dugger	Yes	5.18	\$ 35,736.22
IN5238001	Dunkirk Water Department	Dunkirk	No	unknown	unknown
IN5240004	Dupont Water Inc.	Dupont	Yes	0.61	\$ 22,443.39
IN5251004	East Fork Water Inc.	Shoals	Yes	37.64	\$ 42,276.33
IN5247002	East Lawrence Water Authority	Bedford	Yes	70.58	\$ 285,970.06
IN5253003	East Monroe Water Corp	Bloomington	Yes	23.49	\$ 78,922.59
IN5288002	East Washington Rural Water Corp	Salem	Yes	56.69	\$ 122,574.80
IN5203004	Eastern Bartholomew Water Corporation	Taylorsville	Yes	17.35	\$ 11,703.66
IN5228003	Eastern Heights Utilities	Eastern Heights	Yes	106.00	\$ 85,395.69
IN5218006	Eaton Water Works	Eaton	Yes	24.18	\$ 11,637.29
IN5248006	Edgewood Water Department	Edgewood	Yes	15.86	\$ 20,154.84
IN5241002	Edinburgh Water Utility	Edinburgh	Yes	31.41	\$ 25,947.52

IN5242005	Edwardsport Water Utility	Edwardsport	No	unknown	unknown
IN5222001	Edwardsville Water Corp.	Georgetown	Yes	132.78	\$ 83,935.74
IN5287003	Elberfeld Water Department	Elberfeld	Yes	9.24	\$ 53,841.68
IN5220008	Elkhart Public Works	Elkhart	Yes	367.25	\$ 597,383.89
IN5253004	Ellettsville Water Works	Ellettsville	Yes	52.94	\$ 146,685.50
IN5228001	Ellis Water Co.	Linton	Yes	16.07	\$ 67,773.28
IN5214003	Elnora Water Works	Elnora	No	unknown	unknown
IN5248007	Elwood Water Utility	Elwood	Yes	196.32	\$ 791,419.71
IN5213002	English Water Works	English	No	unknown	unknown
IN5282002	Evansville Water and Sewer Utility	Evansville	Yes	351.08	\$ 1,000,178.24
IN5221002	Everton Water Corporation	Everton	Yes	9.67	\$ 21,660.96
IN5227005	Fairmount Water Works	Fairmount	Yes	21.92	\$ 29,341.31
IN5283006	Fairview Park Water Utility	Fairview Park	Yes	7.60	\$ 23,560.68
IN5268002	Farmland Municipal Water Works	Farmland	Yes	3.78	\$ 5,137.28
IN5244001	Fawn River Crossing	Lagrange	Yes	3.92	\$ 16,506.13
IN5284002	Fayette Township Water	New Goshen	Yes	30.22	\$ 15,019.31
IN5219004	Ferdinand Water	Ferdinand	Yes	4.53	\$ 21,674.80
IN5274003	Finch Newton Water, Inc.	Chrisney	Yes	10.37	\$ 26,964.92
IN5208003	Flora Water Utility	Flora	Yes	17.83	\$ 28,844.63
IN5222002	Floyds Knobs	Floyds Knobs	Yes	32.10	\$ 48,741.66
IN5226001	Fort Branch Water Dept.	Fort Branch	Yes	15.28	\$ 133,385.76
IN5202012	Fort Wayne City Utilities	Fort Wayne	Yes	3.97	\$ 2,496.90
IN5202020	Fort Wayne City Utilities	Fort Wayne	Yes	3482.02	\$ 4,413,538.01
IN5230003	Fortville Water Works	Fortville	Yes	21.32	\$ 34,071.93
IN5289006	Fountain City Water Works	Fountain City	Yes	13.71	\$ 12,649.07
IN5266001	Francesville Utilities	Francesville	Yes	8.54	\$ 12,615.87
IN5226002	Francisco Water Department	Francisco	Yes	3.68	\$ 21,409.28
IN5212003	Frankfort Water Works	Frankfort	Yes	149.33	\$ 177,134.26
IN5224002	Franklin County Water	Brookville	Yes	20.68	\$ 43,747.02
IN5248008	Frankton Water Utility	Frankton	Yes	36.78	\$ 14,900.78
IN5242006	Freelandville Water Association	Freelandville	Yes	12.43	\$ 25,051.04
IN5276006	Fremont Water Department	Fremont	Yes	19.10	\$ 13,603.77
IN5209003	Galveston Water Works	Galveston	Yes	11.40	\$ 22,763.85
IN5217004	Garrett Water Utility	Garrett	Yes	44.48	\$ 96,720.58

IN5227006	Gas City Water	Gas City	Yes	50.44	\$ 84,551.37
IN5218008	Gaston Water Works	Gaston	Yes	7.27	\$ 10,453.65
IN5201003	Geneva Water Works	Geneva	Yes	12.58	\$ 9,551.55
IN5274004	Gentryville Water	Gentryville	Yes	9.44	\$ 54,623.13
IN5282003	German Township Water District Inc.	Evansville	No	unknown	unknown
IN5226009	Gibson Water, Inc.	Haubstadt	Yes	15.02	\$ 59,266.88
IN5270002	Glenwood Water Works	Glenwood	Yes	1.24	\$ 820.96
IN5256003	Goodland Water Works	Goodland	Yes	10.19	\$ 26,703.34
IN5220009	Goshen Water Department	Goshen	Yes	277.43	\$ 1,249,903.72
IN5260003	Gospport Municipal Utility	Gospport	Yes	8.54	\$ 17,197.87
IN5202006	Grabill Water	Grabill	Yes	15.02	\$ 2,720.11
IN5213003	Grantsburg Water Company	English	No	unknown	unknown
IN5267004	Greencastle Utility	Greencastle	Yes	107.74	\$ 145,612.04
IN5230004	Greenfield Water Utility	Greenfield	Yes	53.32	\$ 118,697.56
IN5216002	Greensburg Water Works	Greensburg	Yes	262.21	\$ 248,725.20
IN5222004	Greenville Water Utility	Greenville	Yes	26.62	\$ 134,349.93
IN5245019	Griffith Public Works Department	Griffith	Yes	596.82	\$ 773,029.57
IN5276023	Hamilton Water Utility	Hamilton	Yes	15.58	\$ 14,860.70
IN5275001	Hamlet Water Works	Hamlet	Yes	4.19	\$ 21,270.30
IN5245020	Hammond Water Works Department	Hammond	Yes	840.95	\$ 119,748.56
IN5239003	Hanover Water Department	Hanover	Yes	6.96	\$ 25,354.59
IN5205002	Hartford City Waterworks	Hartford City	Yes	5.97	\$ 8,253.66
IN5226003	Haubstadt Water Department	Haubstadt	Yes	7.99	\$ 44,204.62
IN5240005	Hayden Water Association	North Vernon	No	unknown	unknown
IN5226004	Hazelton Water Department	Hazelton	Yes	1.79	\$ 23,339.84
IN5264009	Hebron Water Department	Hebron	Yes	4.34	\$ 13,998.87
IN5245021	Highland Water Works	Highland	Yes	130.19	\$ 138,368.74
IN5255021	Hill Water Corporation	Mooreville	Yes	28.65	\$ 59,744.73
IN5223003	Hillsboro Water Utility	Hillsboro	No	unknown	unknown
IN5283007	Hillsdale Water Company	Hillsdale	No	unknown	unknown
IN5215005	Hogan Water Corp	Aurora	Yes	13.07	\$ 45,095.43
IN5215005	Hogan Water Corporation	Aurora	No	unknown	unknown
IN5219006	Holland Water	Holland	Yes	-1.10	\$ 5,076.11
IN5269008	Holton Community Water Corporation	Holton	Yes	13.29	\$ 72,538.58

IN5269002	Hoosier Hills Regional Water District	Milan	Yes	94.40	\$ 259,278.95
IN5203006	Hope Water Department	Hope	No	unknown	unknown
IN5276022	Hudson Water Works	Hudson	Yes	1.78	\$ 6,480.72
IN5202007	Huntertown Water Works	Huntertown	Yes	45.89	\$ 102,623.79
IN5219007	Huntingburg Municipal Water	Huntingburg	Yes	21.49	\$ 38,532.31
IN5235005	Huntington Water	Huntington	Yes	308.76	\$ 906,603.20
IN5277004	Hymera Water Works	Hymera	Yes	7.37	\$ 11,355.11
IN5254005	Indiana American Water: Crawfordsville	Crawfordsville	Yes	87.91	\$ 38,453.62
IN5241005	Indiana American Water: Johnson County	Johnson County	Yes	298.17	\$ 164,471.71
IN5234007	Indiana American Water: Kokomo	Kokomo	Yes	611.67	\$ 271,638.50
IN5255006	Indiana American Water: Mooresville	Mooresville	Yes	7.62	\$ 9,258.79
IN5218012	Indiana American Water: Muncie	Muncie	Yes	1003.01	\$ 427,838.85
IN5287004	Indiana American Water: Newburgh	Newburgh	Yes	27.12	\$ 99,442.07
IN5229015	Indiana American Water: Noblesville	Noblesville	Yes	139.37	\$ 75,624.38
IN5245015	Indiana American Water: Northwest	Gary	Yes	3783.85	\$ 1,133,964.73
IN5289012	Indiana American Water: Richmond	Richmond	Yes	203.77	\$ 115,150.31
IN5236005	Indiana American Water: Seymour	Seymour	Yes	73.74	\$ 37,928.64
IN5273002	Indiana American Water: Shelbyville	Shelbyville	Yes	47.61	\$ 37,618.59
IN5285002	Indiana American Water: Somerset	Somerset	Yes	0.10	\$ 180.24
IN5210005	Indiana American Water: Southern	Southern	Yes	1304.91	\$ 468,153.05
IN5277009	Indiana American Water: Sullivan	Sullivan	Yes	14.28	\$ 8,446.25
IN5248010	Indiana American Water: Summitville	Summitville	Yes	3.41	\$ 1,586.95
IN5284012	Indiana American Water: Terre Haute	Terre Haute	Yes	549.26	\$ 163,986.22
IN5285003	Indiana American Water: Wabash	Wabash	Yes	128.98	\$ 40,048.86
IN5243030	Indiana American Water: Warsaw	Warsaw	Yes	41.16	\$ 35,241.27
IN5254012	Indiana American Water: Waveland	Waveland	Yes	4.83	\$ 3,628.06

IN5279020	Indiana American Water: West Lafayette	West Lafayette	Yes	123.71	\$ 73,490.57
IN5268003	Indiana American Water: Winchester	Winchester	Yes	28.19	\$ 13,557.81
IN2890907	Indiana Gateway Industrial Park Water Utility	Cambridge City	Yes	19.86	\$ 34,617.78
IN5219008	Ireland Utilities Inc.	Ireland	Yes	8.65	\$ 59,698.49
IN5246012	J.B. Water Works Inc.	LaPorte	No	unknown	unknown
IN5236003	Jackson County Water Utility	Brownstown	Yes	98.25	\$ 167,407.64
IN5206008	Jamestown Municipal Water	Jamestown	Yes	3.93	\$ 31,380.96
IN5228004	Jasonville Water Department	Jasonville	Yes	78.51	\$ 74,411.92
IN5219009	Jasper Municipal Water Utility	Jasper	Yes	155.09	\$ 256,612.26
IN5240002	Jennings northwest Regional Utilities	North Vernon	Yes	12.97	\$ 72,305.08
IN5240006	Jennings Water Inc.	North Vernon	Yes	27.17	\$ 98,824.97
IN5227010	Jonesboro Water Utility	Jonesboro	Yes	31.43	\$ 28,425.18
IN5239004	Kent Water Company	Hanover	Yes	22.86	\$ 52,930.55
IN5256005	Kentland Water Works	Kentland	Yes	6.74	\$ 24,311.68
IN5225003	Kewanna Water Works	Kewanna	Yes	1.64	\$ 6,437.46
IN5246013	Kingsbury Utility Corporation	Kingsbury Industrial Park	Yes	36.12	\$ 18,006.61
IN5246014	Kingsford Heights Water	Kingsford Heights	Yes	27.62	\$ 105,684.99
IN5233005	Knightstown Water Utility	Knightstown	Yes	45.29	\$ 34,611.92
IN5211006	Knightsville Water Works	Knightsville	Yes	9.65	\$ 83,276.33
IN5242018	Knox County Water, Inc.	Vincennes	Yes	63.10	\$ 182,698.67
IN5275002	Knox Water Works	Knox	Yes	24.63	\$ 36,033.77
IN5264013	Kouts Water Works	Kouts	Yes	20.65	\$ 11,522.17
IN5268013	L and M Regional Water	Loganville	Yes	1.24	\$ 633.66
IN5264033	L-A-C Utilities	Valparaiso	Yes	1.32	\$ 22,923.09
IN5246015	Lacrosse Water Utility	Lacrosse	Yes	2.49	\$ 6,866.71
IN5254006	Ladoga Water Works	Ladoga	Yes	6.02	\$ 19,566.30
IN5279013	Lafayette Water Works	Lafayette	Yes	241.61	\$ 212,527.01
IN5285004	LaFontaine Water Company	LaFontaine	Yes	7.88	\$ 13,166.05
IN5244003	LaGrange Water Works	LaGrange	Yes	81.78	\$ 53,624.40
IN5285005	Lagro Water Utility	Lagro	Yes	2.99	\$ 4,373.17
IN5216003	Lake Santee Regional Waste and Water District	Greensburg	Yes	6.82	\$ 5,254.94
IN5224004	Laurel Water Department	Laurel	No	unknown	unknown

IN5215006	Lawrenceburg Municipal Utilities	Lawrenceburg	Yes	22.59	\$ 57,726.61
IN5213004	Leavenworth Water	Leavenworth	Yes	2.11	\$ 2,440.98
IN5206003	Lebanon Utilities	Lebanon	Yes	63.70	\$ 49,773.56
IN5228005	Linton Municipal Water	Linton	Yes	82.81	\$ 43,873.60
IN5215007	LMS Conservancy District	Aurora	Yes	40.36	\$ 39,919.56
IN5209012	Logansport Municipal Utilities	Logansport	Yes	552.92	\$ 147,040.79
IN5246028	Long Beach Water Dept.	Long Beach	Yes	2.86	\$ 4,733.15
IN5251005	Loogootee Water Works	Loogootee	Yes	18.46	\$ 51,038.36
IN5245029	Lowell Water Department	Lowell	Yes	92.65	\$ 185,369.31
IN5261002	Lyford Water Works	Rosedale	No	unknown	unknown
IN5287006	Lynnville Water Department	Lynnville	Yes	4.47	\$ 26,428.51
IN5228006	Lyons Water Utility	Lyons	Yes	-1.51	\$ 3,015.88
IN5255004	Mapleturn Utilities	Martinsville	Yes	12.46	\$ 20,978.13
IN5227014	Marion Utilities	Marion	Yes	561.79	\$ 374,922.43
IN5235006	Markle Water Utility	Markle	Yes	4.12	\$ 2,497.46
IN5261003	Marshall Water Works	Marshall	Yes	2.64	\$ 6,077.71
IN5255009	Martinsville Water Utility	Martinsville	Yes	71.03	\$ 54,223.69
IN5210006	Marysville Otisco Nabb Water Corp	Marysville, Otisco, and Nabb	Yes	31.72	\$ 93,128.25
IN5202037	Maysville RWSD	Maysville RWSD	Yes	5.50	\$ 30,698.49
IN5236004	Medora Water Department	Medora	Yes	1.13	\$ 9,871.58
IN5246020	Michigan City Water Works	Michigan City	Yes	278.68	\$ 79,109.74
IN5220014	Middlebury Water Department	Middlebury	Yes	60.85	\$ 529,064.23
IN5233008	Middletown Water	Middletown	Yes	18.64	\$ 165,507.39
IN5289011	Milton Water Works	Milton	Yes	5.39	\$ 7,515.21
IN5271009	Mishawaka Water	Mishawaka	Yes	62.15	\$ 92,598.09
IN5291010	Monon Water Works	Monon	Yes	14.77	\$ 23,726.75
IN5242008	Monroe City Water	Monroe City	Yes	1.47	\$ 10,391.71
IN5261005	Montezuma Municipal Utilities	Montezuma	Yes	4.09	\$ 5,254.35
IN5214004	Montgomery Water Department	Montgomery	Yes	5.33	\$ 9,938.26
IN5291011	Monticello Water Works	Monticello	Yes	65.82	\$ 61,780.19
IN5255010	Morgan County Rural Water	Martinsville	Yes	47.74	\$ 166,182.76
IN5255011	Morgantown Water Utility	Morgantown	Yes	8.59	\$ 9,064.20

IN5273003	Morristown Water Department	Morristown	Yes	27.41	\$ 25,506.24
IN5233009	Mount Summit Water Utility	Mount Summit	Yes	4.89	\$ 15,571.78
IN5265006	Mount Vernon Water Works	Mt. Vernon	Yes	187.00	\$ 303,269.29
IN5212005	Mulberry Water Works	Mulberry	Yes	-0.50	\$ 8,634.26
IN5269007	Napoleon Community Rural Water Corporation	Napoleon	Yes	14.08	\$ 84,854.59
IN5207002	Nashville Water	Nashville	Yes	93.82	\$ 264,525.99
IN5271011	New Carlisle Water Works	New Carlisle	Yes	12.29	\$ 5,402.84
IN5233011	New Castle Water	New Castle	Yes	142.94	\$ 86,549.47
IN5245032	New Chicago Water Works	New Chicago	No	unknown	unknown
IN5288004	New Pekin Municipal Utilities	Pekin	Yes	14.58	\$ 66,847.81
IN5254009	New Richmond Water	New Richmond	Yes	0.64	\$ 2,420.61
IN5228007	Newberry Water Utility	Newberry	No	unknown	unknown
IN5283014	Newport Chemical Depot Reuse Authority	Hillsdale	Yes	14.69	\$ 24,167.35
IN5283008	Newport Water Utility	Newport	Yes	1.84	\$ 4,831.72
IN5256009	Newton County Regional Water & Sewer District	Brook	Yes	11.86	\$ 20,853.93
IN5230008	NineStar Connect - Gem Water	Greenfield	Yes	6.98	\$ 9,626.49
IN5230006	NineStar Connect - Sugar Creek Utilities	Greenfield	Yes	0.29	\$ 8,030.62
IN5215008	North Dearborn Water Corporation	West Harrison	Yes	15.63	\$ 29,269.80
IN5275003	North Judson Water Works	North Judson	Yes	12.97	\$ 20,883.41
IN5247004	North Lawrence Water Authority	Bedford	Yes	201.69	\$ 226,978.86
IN5285009	North Manchester	North Manchester	Yes	30.16	\$ 86,768.46
IN5232017	North Salem Water Corp.	North Salem	Yes	3.90	\$ 2,375.21
IN5240008	North Vernon Water	North Vernon	Yes	-87.81	\$ 11,264.91
IN5237015	Northwest Jasper Regional Water District	Demotte	Yes	3.33	\$ 28,224.54
IN5235004	Norwood Regional Water & Sewage	Huntington	No	unknown	unknown
IN5226005	Oakland City Water Department	Oakland City	Yes	15.58	\$ 269,339.96
IN5242009	Oaktown Water Works	Oaktown	No	unknown	unknown
IN5264040	Ogden Dunes Water Works	Ogden Dunes	No	unknown	unknown

IN5224006	Oldenburg Water Works	Oldenburg	No	unknown	unknown
IN5247005	Oolitic Water Works	Oolitic	Yes	18.09	\$ 51,868.26
IN5248017	Orestes Water Works	Orestes	Yes	9.70	\$ 8,457.64
IN5269004	Osgood Water Utility	Osgood	Yes	26.99	\$ 222,814.90
IN5204004	Otterbein Water Department	Otterbein	Yes	3.31	\$ 17,534.87
IN5263001	Otwell Water Corporation	Otwell	Yes	30.01	\$ 87,786.75
IN5226006	Owensville Water Works	Owensville	Yes	5.06	\$ 13,738.50
IN5204005	Oxford Utilities	Oxford	Yes	8.86	\$ 16,477.92
IN5259004	Paoli Water Department	Paoli	Yes	123.56	\$ 308,588.59
IN5255013	Paragon Water Works	Paragon	No	unknown	unknown
IN5268007	Parker City Municipal Utilities	Parker City	Yes	6.17	\$ 11,148.68
IN5219012	Patoka Lake Regional Water and Sewer District	Dubois	Yes	266.48	\$ 319,602.12
IN5213007	Patoka water Company, Inc.	Patoka	No	unknown	unknown
IN5226007	Patoka Water Department	Patoka	Yes	8.68	\$ 16,890.90
IN5277006	Paxton Water Corporation	Carlisle	Yes	4.89	\$ 3,084.96
IN5286002	Pence Water Works	Williamsport	No	unknown	unknown
IN5248019	Pendleton Water Company	Pendleton	Yes	99.18	\$ 88,954.39
IN5252011	Peru Utilities Grissom	Peru	Yes	224.54	\$ 76,136.33
IN5252016	Peru Water	Peru	Yes	233.69	\$ 144,649.94
IN5263002	Petersburg Water Works	Petersburg	Yes	114.52	\$ 85,049.02
IN5243018	Pierceton Water Works	Pierceton	Yes	20.90	\$ 30,808.14
IN5263003	Pike Gibson Water INC	Oakland City	Yes	51.55	\$ 157,887.96
IN5202034	Pioneer Water LLC	LEO	Yes	3.30	\$ 10,993.92
IN5232019	Pittsboro Water Company	Pittsboro	Yes	20.85	\$ 66,046.78
IN5232020	Plainfield Water Works	Plainfield	Yes	88.93	\$ 208,849.24
IN5221004	Pleasantview Utilities, Inc.	Connersville	Yes	2.14	\$ 13,196.82
IN5277007	Pleasantville Water Company	Linton	No	unknown	unknown
IN5238007	Portland Municipal Water	Portland	Yes	98.05	\$ 44,249.23
IN5288006	Posey Township Water Company	Hardinsburg	No	unknown	unknown
IN5241007	Princes Lakes Utilities	Princes Lakes	Yes	3.08	\$ 7,924.05
IN5226008	Princeton Water Department	Princeton	Yes	152.20	\$ 84,713.02
IN5279015	Purdue University Waterworks	West Lafayette	Yes	771.02	\$ 139,681.33
IN5231005	Ramsey Water Company	Ramsey	Yes	166.79	\$ 253,100.41

IN5238008	Redkey Water Plant	Redkey	Yes	4.26	\$ 13,365.26
IN5267006	Reelsville Water Authority	Reelsville	Yes	26.34	\$ 48,590.90
IN5237004	Remington Water Works	Remington	Yes	20259.12	\$ 74,038,601.26
IN5274009	Reo Water, Inc.	Reo	Yes	4.84	\$ 3,190.41
IN5291013	Reynolds Water Works	Reynolds	Yes	2.11	\$ 11,405.77
IN5253015	RHS Water Corporation	Bloomington	Yes	1.61	\$ 7,852.74
IN5268008	Ridgeville Water Department	Ridgeville	Yes	2.44	\$ 3,363.75
IN5258002	Rising Sun Municipal Utilities	Rising Sun	Yes	19.74	\$ 33,430.09
IN5267007	Roachdale Water Works	Roachdale	Yes	5.04	\$ 24,556.72
IN5285013	Roann Water Works	Roann	Yes	2.27	\$ 5,429.77
IN5235009	Roanoke Water Works	Roanoke	Yes	11.98	\$ 31,713.65
IN5225006	Rochester Water Department	Rochester	Yes	49.43	\$ 47,109.17
IN5274007	Rockport Water	Rockport	Yes	11.42	\$ 6,837.99
IN5261006	Rockville Utilities	Rockville	Yes	62.54	\$ 354,424.67
IN5261007	Rosedale Water Works	Rosedale	Yes	14.09	\$ 153,320.97
IN5212007	Rossville Water Works	Rossville	Yes	8.14	\$ 22,576.37
IN5209008	Royal Center Water	Royal Center	Yes	8.49	\$ 12,715.74
IN5291019	Royal Oaks Homeowners Association., Inc.	Monticello	No	unknown	unknown
IN5210009	Rural Membership Water Corporation	Henryville	Yes	42.22	\$ 136,942.52
IN5270005	Rushville Utilities	Rushville	Yes	48.49	\$ 75,230.89
IN5239007	Rykers Ridge Water Company	Madison	Yes	15.91	\$ 27,291.21
IN5288005	Salem Water Works	Salem	Yes	279.97	\$ 227,272.57
IN5242011	Sandborn Water Utility	Sandborn	Yes	0.59	\$ 3,391.54
IN5274010	Santa Claus Utilities	Santa Claus	Yes	65.41	\$ 226,308.86
IN5245041	Schererville Water Department	Schererville	Yes	92.28	\$ 290,537.70
IN5272001	Scottsburg Department of Waterworks	Scottsburg	Yes	50.09	\$ 111,614.22
IN5210010	Sellersburg Water Department	Sellersburg	Yes	259.68	\$ 165,519.80
IN5253014	Shady Side Water Corporation	Bloomington	No	unknown	unknown
IN5277008	Shelburn Water	Shelburn	Yes	27.34	\$ 222,907.10
IN5244006	Shipshewana Water Works	Shipshewana	Yes	20.64	\$ 51,310.96
IN5210011	Silver Creek Water Corporation	Sellersburg	Yes	78.65	\$ 232,854.86
IN5267009	South 43 Water Association, Inc.	Roachdale	No	unknown	unknown

IN5271014	South Bend Water Works	South Bend	Yes	1216.33	\$ 562,259.43
IN0000000	South Coast Conservancy District	Wheeler	Yes	0.19	\$ 2,726.59
IN5231006	South Harrison Water Corp	Corydon	Yes	134.70	\$ 124,075.62
IN5247007	South Lawrence Utilities	Mitchell	No	unknown	unknown
IN5292007	South Whitley Water Department	South Whitley	Yes	6.97	\$ 28,935.77
IN5248026	Southern Madison Utilities, LLC	Southern Madison County	Yes	0.47	\$ 244.39
IN5253007	Southern Monroe Water Authority	Bloomington	Yes	62.25	\$ 198,048.47
IN5203008	Southwestern Bartholomew Water Corporation	Columbus	Yes	63.79	\$ 83,794.82
IN5249008	Speedway Water Works	Speedway	Yes	177.87	\$ 173,495.58
IN5233016	Spiceland Municipal Water Utility	Spiceland	Yes	12.62	\$ 17,898.21
IN5259002	Springs Valley Regional Water District	French Lick/ West Baden	Yes	62.88	\$ 200,182.29
IN5263004	Spurgeon Water Corp.	Spurgeon	Yes	0.75	\$ 3,336.77
IN5219010	St. Anthony Water Utilities	St. Anthony	Yes	10.41	\$ 36,901.55
IN5283010	St. Bernice Water Corporation	Clinton	No	unknown	unknown
IN5219011	St. Henry Water Corporation	Ferdinand	Yes	33.43	\$ 90,999.62
IN5274013	St. Meinrad Utilities, Inc.	St. Meinrad	Yes	1.40	\$ 8,212.65
IN5216004	St. Paul Municipal Water	St. Paul	Yes	11.50	\$ 60,513.02
IN5211007	Staunton Water Works	Staunton	Yes	4.87	\$ 60,178.03
IN5272002	Stucker Fork Conservancy District	Austin	Yes	349.30	\$ 276,206.92
IN5284021	Sullivan-Vigo Rural Water Corp.	Pimento	Yes	9.54	\$ 45,367.61
IN5210012	Sunflower Valley Water, Inc.	Sellersburg	No	unknown	unknown
IN5269005	Sunman Water Works	Sunman	No	unknown	unknown
IN5227020	Swayzee Water Utility	Swayzee	Yes	38.12	\$ 113,461.68
IN5228009	Switz City Waterworks	Switz City	Yes	10.87	\$ 60,428.18
IN5243025	Syracuse Water Company	Syracuse	Yes	21.12	\$ 60,313.94
IN5262004	Tell City Water Department	Tell City	Yes	136.07	\$ 98,796.13
IN5287007	Tennyson Water	Tennyson	Yes	24.82	\$ 93,134.57
IN5206005	Thorntown utilities	Thorntown	Yes	10.90	\$ 12,240.08
IN5280004	Tipton Utility Service Board	Tipton	Yes	24.43	\$ 50,353.73

IN5204001	Town of Ambia	Ambia	Yes	0.22	\$ 1,351.88
IN5235001	Town of Andrews	Andrews	Yes	16.48	\$ 167,945.70
IN5229002	Town of Atlanta	Atlanta	Yes	2.50	\$ 30,490.52
IN5257002	Town of Avilla	Avilla	Yes	7.30	\$ 25,615.11
IN5204002	Town of Boswell	Boswell	Yes	12.97	\$ 17,262.40
IN5250003	Town of Bremen Water Dept.	Bremen	Yes	47.73	\$ 25,124.39
IN5288001	Town of Campbellsburg	Campbellsburg	Yes	5.01	\$ 4,701.93
IN5283002	Town of Cayuga	Cayuga	Yes	16.20	\$ 36,842.33
IN5289003	Town of Centerville	Centerville	Yes	9.97	\$ 82,619.41
IN5291003	Town of Chalmers Water Works	Chalmers	Yes	4.15	\$ 7,692.14
IN5211004	Town of Clay City	Clay City	Yes	23.28	\$ 11,780.11
IN5212001	Town of Colfax	Colfax	Yes	5.83	\$ 10,633.62
IN5217008	Town of Corunna	Corunna	Yes	9.94	\$ 4,493.39
IN5251002	Town of Crane	Crane	Yes	-0.13	\$ 376.03
IN5236001	Town of Crothersville Utilities	Crothersville	Yes	10.13	\$ 33,832.16
IN5250005	town of Culver	Culver	Yes	39.75	\$ 37,643.21
IN5274002	Town of Dale	Dale	Yes	7.88	\$ 35,751.82
IN5218027	Town of Daleville	Daleville	Yes	23.47	\$ 23,098.61
IN5215002	Town of Dillsboro, Dillsboro Water Works	Dillsboro	Yes	6.39	\$ 23,209.26
IN5289005	Town of Dublin	Dublin	Yes	23.16	\$ 18,642.21
IN5245011	Town of Dyer	Dyer	Yes	43.98	\$ 43,726.48
IN5204003	Town of Earl Park	Earl Park	Yes	1.54	\$ 2,831.16
IN5231007	Town of Elizabeth	Elizabeth	Yes	58.33	\$ 302,702.75
IN5243003	Town of Etna Green Water	Etna Green	Yes	2.40	\$ 6,748.20
IN5267012	Town of Fillmore Utilities	Fillmore	Yes	0.92	\$ 26,526.32
IN5204006	Town of Fowler	Fowler	Yes	4.24	\$ 29,360.77
IN5274005	Town of Grandview Municipal Water	Grandview	Yes	0.76	\$ 6,248.88
IN5234006	Town of Greentown	Greentown	Yes	6.35	\$ 114,049.20
IN5289008	Town of Hagerstown	Hagerstown	Yes	41.91	\$ 29,232.09
IN5248012	Town of Ingalls	Ingalls	Yes	16.69	\$ 33,409.45
IN5223004	Town of Kingman	Kingman	Yes	10.05	\$ 220,886.97
IN5212004	Town of Kirklin	Kirklin	Yes	11.21	\$ 30,464.95
IN5271008	Town of Lakeville Water Department	Lakeville	Yes	4.17	\$ 2,297.99
IN5231003	Town of Lanesville Water Works	Lanesville	Yes	3.89	\$ 25,449.90
IN5248013	Town of Lapel	Lapel	Yes	41.82	\$ 21,390.07
IN5233006	Town of Lewisville	Lewisville	Yes	1.24	\$ 9,312.55

IN5281001	Town of Liberty	Liberty	Yes	62.77	\$ 82,273.68
IN5254007	Town of Linden	Linden	Yes	4.84	\$ 4,514.71
IN5268004	Town of Lynn Water Co.	Lynn	Yes	9.87	\$ 10,693.24
IN5266003	Town of Medaryville	Medaryville	Yes	3.23	\$ 8,903.83
IN5243013	Town of Mentone	Municipality	Yes	4.41	\$ 8,065.25
IN5269003	Town of Milan/Water Utility	Milan	Yes	14.96	\$ 67,580.31
IN5243017	Town of Milford	Milford	Yes	2.94	\$ 11,150.89
IN5220015	Town of Millersburg	Millersburg	Yes	8.47	\$ 8,323.60
IN5201004	Town of Monroe	Monroe	Yes	4.32	\$ 6,551.60
IN5202008	Town of Monroeville Water Utility	Monroeville	Yes	2.48	\$ 5,234.46
IN5256006	Town of Morocco	Morocco	Yes	12.77	\$ 32,097.78
IN5245031	Town of Munster Water Department	Munster	Yes	251.15	\$ 282,751.41
IN5265007	Town of New Harmony	New Harmony	Yes	9.56	\$ 4,990.46
IN5254008	Town of New Market	New Market	Yes	10.41	\$ 18,284.56
IN5271010	Town of North Liberty	North Liberty	Yes	2.29	\$ 2,355.83
IN5214005	Town of Odon	Odon	Yes	1.79	\$ 1,827.34
IN5276027	Town of Orland	Orland	Yes	8.42	\$ 4,876.37
IN5259003	Town of Orleans Water Department	Orleans	Yes	50.24	\$ 165,655.89
IN5290002	Town of Ossian	Ossian	Yes	14.59	\$ 36,768.52
IN5231004	Town of Palmyra	Palmyra	Yes	21.29	\$ 160,758.80
IN5278001	Town of Patriot Municipal Utilities	Patriot	Yes	133.29	\$ 356,532.07
IN5238006	Pennville Water Department	Pennville	Yes	3.52	\$ 3,933.13
IN5265008	Town of Poseyville	Poseyville	Yes	16.89	\$ 27,919.64
IN5267008	Town of Russellville	Russellville	Yes	2.25	\$ 19,254.10
IN5284011	Town of Seelyville	Seelyville	Yes	19.45	\$ 12,742.37
IN5233013	Town of Shirley	Shirley	Yes	14.99	\$ 11,038.79
IN5251007	Town of Shoals Water Co	Shoals	Yes	2.21	\$ 1,486.01
IN5243021	Town of Silver Lake	Silver Lake	Yes	4.88	\$ 13,728.57
IN5245043	Town of St. John	St. John	Yes	165.86	\$ 423,466.22
IN5244008	Town of Topeka	Topeka	Yes	17.68	\$ 18,085.82
IN5241014	Town of Trafalgar Water Department	Trafalgar	Yes	7.64	\$ 28,544.16
IN5283011	Town of Universal	Universal	Yes	5.33	\$ 13,254.34
IN5227022	Town of Upland	Upland	Yes	26.85	\$ 32,993.88
IN5269006	Town of Versailles	Versailles	Yes	12.58	\$ 66,642.01
IN5220029	Town of Wakarusa	Wakarusa	Yes	25.73	\$ 24,418.94
IN5291015	Town of Wolcott	Wolcott	Yes	15.14	\$ 12,802.55

IN5255022	Tri-County Conservancy District	Camby	Yes	3.13	\$ 7,439.16
IN5215009	Tri-Township Water Corporation	Lawrenceburg	Yes	22.25	\$ 55,322.87
IN5262006	Troy Township Water Association	Cannelton	Yes	7.17	\$ 40,003.73
IN5262005	Troy Water Utility	Troy	No	unknown	unknown
IN5268010	Union City Water Works	Union City	Yes	14.22	\$ 3,364.18
IN5215004	Valley Rural Utility Co.	Lawrenceburg	Yes	50.06	\$ 108,988.43
IN5264029	Valparaiso City Utilities	Valparaiso	Yes	167.49	\$ 157,966.57
IN5227023	Van Buren Water Department	Van Buren	Yes	3.28	\$ 24,208.45
IN5253008	Van Buren Water Inc.	Bloomington	Yes	24.14	\$ 99,442.35
IN5223005	Veedersburg Water Department	Veedersburg	Yes	58.83	\$ 144,136.42
IN5240009	Vernon Water Department	Vernon	Yes	1.69	\$ 4,653.94
IN5278002	Vevay Utilities	Vevay	Yes	9.98	\$ 11,600.59
IN5242014	Vincennes Water Utilities	Vincennes	Yes	122.75	\$ 117,199.88
IN5273006	Waldron Conservancy District	Waldron	Yes	2.71	\$ 5,921.26
IN5271017	Walkerton Utilities	Walkerton	Yes	14.75	\$ 15,075.13
IN5209010	Walton Water Works	Walton	Yes	5.08	\$ 12,368.10
IN5246033	Wanatah Water Utility	Wanatah	Yes	2.53	\$ 10,295.58
IN5235012	Warren Municipal Water	Warren	Yes	13.88	\$ 30,723.51
IN5253009	Washington Township Water Authority	Bloomington	Yes	3.43	\$ 26,191.27
IN5210015	Washington Township Water Authority	New Washington	No	unknown	unknown
IN5214007	Washington Water Works	Washington	Yes	101.09	\$ 140,650.92
IN5245012	West Chicago Water Works	East Chicago	No	unknown	unknown
IN5217007	Waterloo Water Works	Waterloo	Yes	8.64	\$ 24,542.90
IN5210016	Watson Water Company Inc.	Jeffersonville	Yes	161.78	\$ 192,663.39
IN5254013	Waynetown Water Works	Waynetown	Yes	5.24	\$ 88,661.38
IN5286003	West Lebanon Water Works	West Lebanon	Yes	15.55	\$ 17,228.78
IN5284015	West Terre Haute Water	West Terre Haute	Yes	5.46	\$ 25,903.73
IN5216005	Westport Water Works	Westport	Yes	17.10	\$ 182,740.55
IN5246029	Westville Water Department	Westville	Yes	12.64	\$ 37,346.15
IN5242016	Wheatland Water Works	Wheatland	Yes	12.33	\$ 19,403.20
IN5241009	Whiteland Water Utility	Whiteland	Yes	8.39	\$ 57,492.73

IN5206014	Whitestown Municipal Utility	Whitestown	Yes	71.63	\$ 182,974.37
IN5245048	Whiting Water Department	Whiting	Yes	18.85	\$ 19,103.03
IN5279026	Wildcat Highlands	Lafayette	No	unknown	unknown
IN5277010	Wilfred Water Corporation	Shelburn	No	unknown	unknown
IN5286004	Williamsport Water Utility	Williamsport	Yes	6.00	\$ 40,424.58
IN5266005	Winamac Municipal Utilities	Winamac	Yes	38.57	\$ 369,926.82
IN5280005	Windfall Water Department	Windfall	Yes	2.34	\$ 19,132.25
IN5254014	Wingate Water Works	Wingate	Yes	0.68	\$ 3,319.81
IN5263006	Winslow Water Works	Winslow	Yes	5.58	\$ 32,490.30
IN5244010	Wolcottville Utilities	Wolcottville	Yes	10.83	\$ 42,466.41
IN5218014	Yorktown Water	Yorktown	Yes	37.94	\$ 47,929.24
IN2180926	Yorktown Water Company	Yorktown	Yes	6.14	\$ 29,725.74

APPENDIX B:

[Compiled water loss dataset – attached]