

Exhibit No.: _____
Issue(s): Consolidated Tariff Pricing/
Rate Design Report
Witness/Type of Exhibit: Marke/Direct
Sponsoring Party: Public Counsel
Case No.: WR-2015-0301

DIRECT TESTIMONY
OF
GEOFF MARKE

Submitted on Behalf of the Office of the Public Counsel

MISSOURI-AMERICAN WATER COMPANY
CASE NO. WR-2015-0301

January 20, 2016

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of Missouri-American Water)
Company's Request for Authority to)
Implement a General Rate Increase for) Case No. WR-2015-0301
Water and Sewer Service Provided in)
Missouri Service Areas.)

AFFIDAVIT OF GEOFF MARKE

STATE OF MISSOURI)
) ss
COUNTY OF COLE)

Geoff Marke, of lawful age and being first duly sworn, deposes and states:

1. My name is Geoff Marke. I am a Regulatory Economist for the Office of the Public Counsel.
2. Attached hereto and made a part hereof for all purposes is my direct testimony.
3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.




Geoff Marke

Subscribed and sworn to me this 20th day of January 2016.



JERENE A. BUCKMAN
My Commission Expires
August 23, 2017
Cole County
Commission #13754037



Jerene A. Buckman
Notary Public

My commission expires August 23, 2017.

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MISSOURI-AMERICAN WATER COMPANY
CASE NO. WR-2015-0301

1 **I. INTRODUCTION**

2 **Q. Please state your name, title and business address.**

3 A. Dr. Geoffrey Marke, Economist, Office of the Public Counsel (OPC or Public Counsel), P.O.
4 Box 2230, Jefferson City, Missouri 65102.

5 **Q. Please describe your education and employment background.**

6 A. I received a Bachelor of Arts Degree in English from The Citadel, a Masters of Arts Degree
7 in English from The University of Missouri, St. Louis, and a Doctorate of Philosophy in
8 Public Policy Analysis from Saint Louis University (SLU). At SLU, I served as a graduate
9 assistant where I taught undergraduate and graduate course work in urban policy and public
10 finance. I also conducted mixed-method research in transportation policy, economic
11 development and emergency management.

12 I have been in my present position with OPC since April of 2014 where I have been
13 responsible for economic analysis and policy research in electric and gas utility operations.
14 Prior to joining OPC, I was employed by the Missouri Public Service Commission as a
15 Utility Policy Analyst II in the Energy Resource Analysis Section, Energy Unit, Utility
16 Operations Department, Regulatory Review Division. My primary duties in that role
17 involved reviewing, analyzing and writing recommendations concerning electric integrated
18 resource planning, renewable energy standards, and demand-side management programs for
19 all investor-owned electric utilities in Missouri. I also have been employed by the Missouri
20 Department of Natural Resources (later transferred to the Department of Economic
21 Development), Energy Division where I served as a Planner III and functioned as the lead
22 policy analyst on electric cases. I have worked in the private sector, most notably serving as

1 the Lead Researcher for Funston Advisory based out of Detroit, Michigan. My experience
2 with Funston involved a variety of specialized consulting engagements with both private and
3 public entities.

4 **Q. Have you been a member of, or participated in, any work groups, committees, or other**
5 **groups that have addressed electric utility regulation and policy issues?**

6 A. Yes. I am currently a member of the National Association of State Consumer Advocates
7 (NASUCA) Distributed Energy Resource Committee which shares information and
8 establishes policies regarding energy efficiency, renewable generation, and distributed
9 generation, and considers best practices for the development of cost-effective programs that
10 promote fairness and value for all consumers. I also serve as a member on NASUCA's
11 Electricity and NASUCA's Water Committee's which discuss current issues affecting
12 residential consumers.

13 **Q. Have you testified previously before the Missouri Public Service Commission?**

14 A. Yes. A listing of the cases in which I previously have filed testimony and/or comments
15 before this commission is attached in GM-1.

16 **Q. What is the purpose of your direct testimony?**

17 A. The purpose of my testimony is to articulate OPC's position on the issue of consolidated
18 tariff pricing (CTP) of the Missouri American Water Company's (MAWC) water and
19 wastewater districts and to comment on the Missouri Public Service Commission Staff's
20 (Staff) report on rate design based on the questions submitted by Chairman Hall.

21 **Q. Could you please give a brief contextual history of CTP as it pertains to MAWC?**

22 A. In the Company's 2010 rate case, WR-2010-0131, the Commission Report and Order stated
23 that there would be no consolidation of MAWC's operating districts and instead a
24 collaborative group consisting of MAWC, Public Counsel, Staff and other interested parties
25 would be formed to study the issue and explore future options. The Commission created a
26 separate working docket, SW-2011-0103: *In the Matter of the Review of Economic, Legal*

1 *and Policy Considerations of District-Specific Pricing and Single Tariff Pricing* in which
2 stakeholders submitted comments and an on-the-record proceeding occurred. Within that
3 docket, the Company submitted a narrative history of rate design as it pertains to
4 consolidation for MAWC since 1989 as appendix A to their brief (see GM-2). That docket
5 was closed when the Company filed notice with the Commission for another rate case, WR-
6 2011-0337 where MAWC again requested a CTP rate design. As the result of a non-
7 unanimous stipulation and agreement between MAWC, Staff, OPC, Ag Processing Inc.
8 (AGP), Missouri Industrial Energy Consumers (MIEC), Metropolitan St. Louis Sewer
9 District (MSD), City of St. Joseph (St. Joseph), BJC HealthCare (BJC), Triumph Foods, LLC
10 (Triumph), and The Empire District Electric Company (Empire) it was decided:

11 **Water districts.** The Signatories have reached a resolution for this case that
12 includes the establishment of eight (8) water Districts as described herein.
13 The Signatories propose to combine Warren County with St. Louis Metro
14 District (St. Louis Metro) and to combine Loma Linda with Joplin District
15 (Joplin), and to maintain the following individual Districts: Mexico,
16 Jefferson City, Warrensburg, Platte County, and St. Joseph. The eighth
17 District (District 8) will consist of the following water systems: Brunswick,
18 Lakewood Manor, Spring Valley, Ozark Mountain, Lake Taneycomo, White
19 Branch, Rankin Acres, Riverside Estates, Roark and Lake
20 Carmel/Maplewood. The systems included in District 8 will be grouped into
21 four groups, with one group that consists of systems that are charged a flat
22 rate (i.e., no commodity charge) while the other three groups are based on
23 similar commodity charges within each group.¹

24 This agreement reflects the present-day, district-specific rate design as will be discussed in
25 this testimony.

¹ WR-2011-0337. (2/24/2012). Non-Unanimous Stipulation and Agreement. Item No. 283. *In the Matter of Missouri-American Water Company's Request for Authority to Implement a General Rate Increase for Water and Sewer Service Provided in Missouri Service Areas.*

1 **Q. Would you please summarize your direct testimony in this docket?**

2 A. In previous cases, Public Counsel has argued for flexibility from strict district specific pricing
3 when reasonably necessary based on consideration of all relevant factors. After reviewing the
4 literature and case history over CTP, Public Counsel has concluded that further movement
5 towards CTP is not presently warranted. This conclusion is based on the following
6 considerations:

- 7 • Water service is local
- 8 • The principles of cost causation in rate making
- 9 • Inappropriate price signal to consumers
- 10 • Overinvestment of infrastructure

11 And lastly, OPC is in general agreement with Staff's rate design report and looks forward to
12 discussing the Company's proposed decoupling mechanism in rebuttal testimony. With this
13 in mind, Public Counsel proposes that the Commission consider opening a Rate Design
14 docket specifically for Missouri American Water following the conclusion of this case in
15 which agreed to metrics are in place and further policy direction from the Commission is
16 provided.

17 **II. WATER SERVICE IS LOCAL**

18 **Q. Is it accurate to compare water systems to electric and gas?**

19 A. No, water systems differ considerably from electric and gas. The reason for this is that water
20 is extremely heavy and costly to transport, precluding the physical interconnection that could
21 lead to system consolidation and greater economies of scale that are seen in both electric and
22 gas. Unlike other public utilities, most water in the United States is supplied by publicly
23 owned and operated waterworks. In fact, roughly 84% of the community water and 98% of
24 the community wastewater systems are government-owned.² Because of the predominately

² American Water Works Company, Inc. Form 10-K. p. 10
<http://ir.amwater.com/Cache/29123208.PDF?Y=&O=PDF&D=&FID=27943982&T=&OSID=9&IID=4004387>

1 local feature of water, it is estimated that there are more water systems in the United States
2 than there are schools. In 2011, there were more than 152,000 water systems in service across
3 the country—more than all elementary, middle, high schools and post-secondary institutions
4 combined.³ Although there are many factors that have been suggested as to why water and
5 wastewater systems remained publicly owned and operated as other natural monopolies
6 overwhelmingly were privatized in the late-19th and early-20th centuries, the local, physical
7 (and political) nature of the service and system itself remains a stark contrast to electric and
8 gas.⁴

9 Comparisons between parochial water systems and the interconnected electric grid⁵ or the
10 U.S. natural gas pipeline network do not reflect the operating market or the engineering
11 realities of the systems in which they provide service. This can be seen by the absence of any
12 comparable federal regulatory body over the water industry as well. For example, the Federal
13 Energy Regulatory Commission (FERC) is entrusted, in part, with jurisdiction of interstate
14 electricity sales and natural gas pricing and the Federal Communications Commission (FCC)
15 regulates interstate telecommunication. All three industries (electric, gas and
16 telecommunications) operate in a manner that necessitates additional federal economic
17 oversight in these natural monopoly operations. No federal agency exerts economic
18 regulatory policy over the water industry. The large number of water providers, the local
19 source of the water supply, and the dominance of public ownership distinguish the water
20 industry in fundamental ways. Water is local, and the cost in providing this service, and
21 consequently its usage, varies considerably based on its location.

³ Kearney, M. et al. (2014). In times of drought: Nine economic facts about water in the United States. *The Hamilton Project: The Brookings Institute* p. 14

http://www.hamiltonproject.org/assets/files/nine_economic_facts_about_us_water.pdf

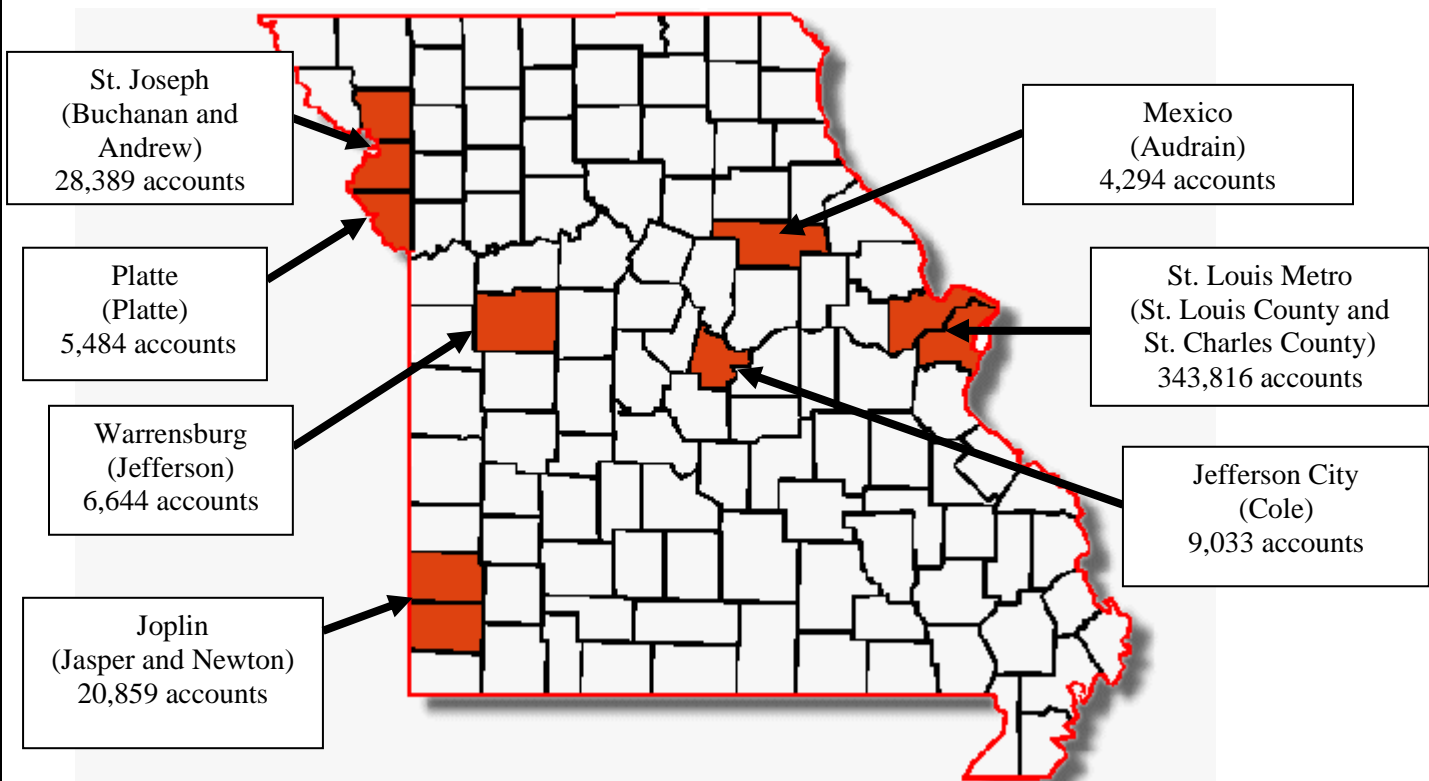
⁴ Masten, S (2004) Public Utility Ownership in 19th-Century America: The “Aberrant” Case of Water. *Journal of Law, Economics, and Organization* .Vol. 27, 3 p. 604-654. <http://jleo.oxfordjournals.org/content/27/3/604.abstract>

⁵ Actually three separate grids under the North American Electric Reliability Corporation: Eastern Interconnection, Western Interconnection and the Electricity Reliability Council of Texas Interconnection

1 **Q. Are the present water districts of MAWC interconnected or at least close to one**
2 **another?**

3 A. No, none of the presently structured districts are interconnected and the proximity of the eight
4 water districts varies considerably. This is seen, in part, within figure 1 which includes
5 highlighted counties of MAWC's seven largest water districts.

6 Figure 1: MAWC's 7 large water districts with September 2015 customer account numbers⁶



7
8 **Q. Which districts have the greatest distance between each other?**

9 A. St. Louis Metro and the St. Joseph districts are the greatest distance apart as illustrated in
10 figure 2.

11
12
⁶ Based on Staff's DR 0239

1 Figure 2: Distance from St. Joseph to St. Louis Metro (Oakville, MO.)^{7,8}



2
3 To illustrate just how distant these two service areas are from one another, consider that St.
4 Louis Metro is closer in proximity to all of the following cities:

- 5 • Chicago IL - 296.7 miles (via I-55)⁹
- 6 • Memphis, TN - 283.3 miles (via I-55)¹⁰
- 7 • Iowa City, IA - 259.7 miles (via US-218 and US-61)¹¹
- 8 • Louisville, KY - 259.9 miles (via I-64)¹²
- 9 • Kansas City, KA - 251.0 miles (via I-70)¹³
- 10 • Indianapolis, IN - 243.3 miles (via I-70)¹⁴

⁷ Oakville, Missouri is a municipality within St. Louis County which receives MAWC service.

⁸ Google Search: St. Joseph, Missouri to Oakville, St. Louis County Missouri (2016).

<https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#safe=active&q=st.+joseph%2C+Missouri+to+oakville%2C+St.+louis+county+missouri>

⁹ Google Search: Chicago to St. Louis (2016). <https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#safe=active&q=Chicago+to+St.+Louis>

¹⁰ Google Search: Memphis to St. Louis (2016). <https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#safe=active&q=memphis+to+st.+louis>

¹¹ Google Search: Iowa City to St. Louis (2016). <https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#safe=active&q=Iowa+City+to+st.+louis>

¹² Google Search: Louisville to St. Louis (2016). <https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#safe=active&q=Louisville+to+st.+louis>

¹³ Google Search: Kansas City to St. Louis (2016)

https://www.google.com/search?q=kansas+city+KS+to+St.+Louis,+MO.&sourceid=ie7&rls=com.microsoft:en-US:IE-Address&ie=&oe=&safe=active&gws_rd=ssl

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- Jonesboro, AR - 228.7 miles (via US-67)¹⁵

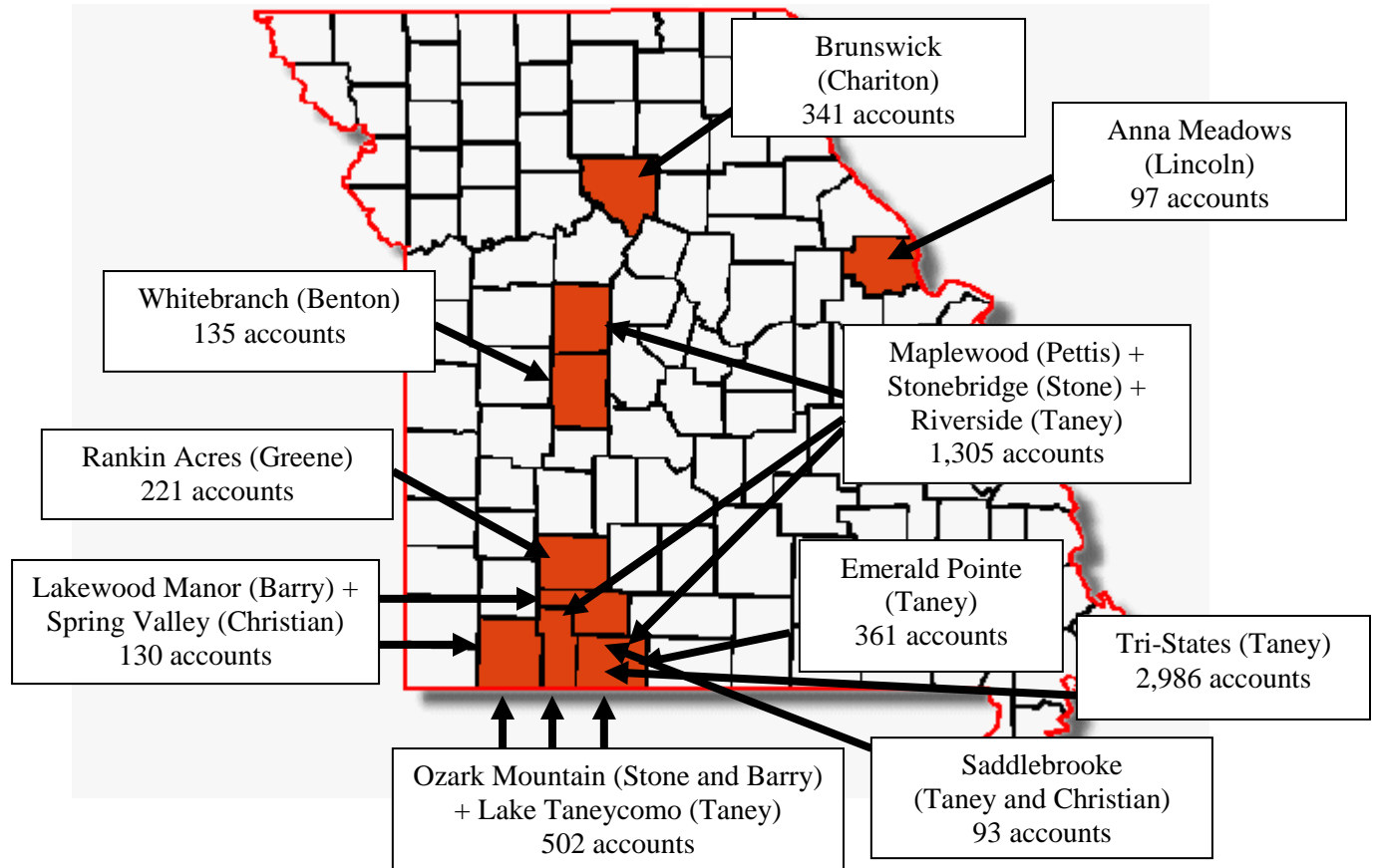
At more than three hundred miles apart, these two districts represent entirely different customers (demographics) and customer densities (# of customers per square mile), economies, geographies, local water sources, and treatment and distribution systems. For instructive purposes under a CTP design, a customer in St. Louis would receive no benefit but would shoulder an additional cost for an upgrade to a treatment plant further away than the city of Chicago.

In addition to the seven large districts, there is an additional smaller water system district that has been categorized as “district 8” based on MAWC’s last rate case. The number of small systems within this district has increased through acquisitions by the Company. Figure 3 breaks down “district 8” or the small water systems units as they are currently constructed by highlighting the counties in which they operate.

¹⁴ Google Search: Indianapolis to St. Louis (2016). <https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#safe=active&q=Indianapolis+to+st.+louis>

¹⁵ Google Search: Jonesboro to St. Louis (2016). <https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#safe=active&q=Jonesboro+to+st.+louis>

1 Figure 3: MAWC's district 8 small water systems with September 2015 customer account numbers¹⁶

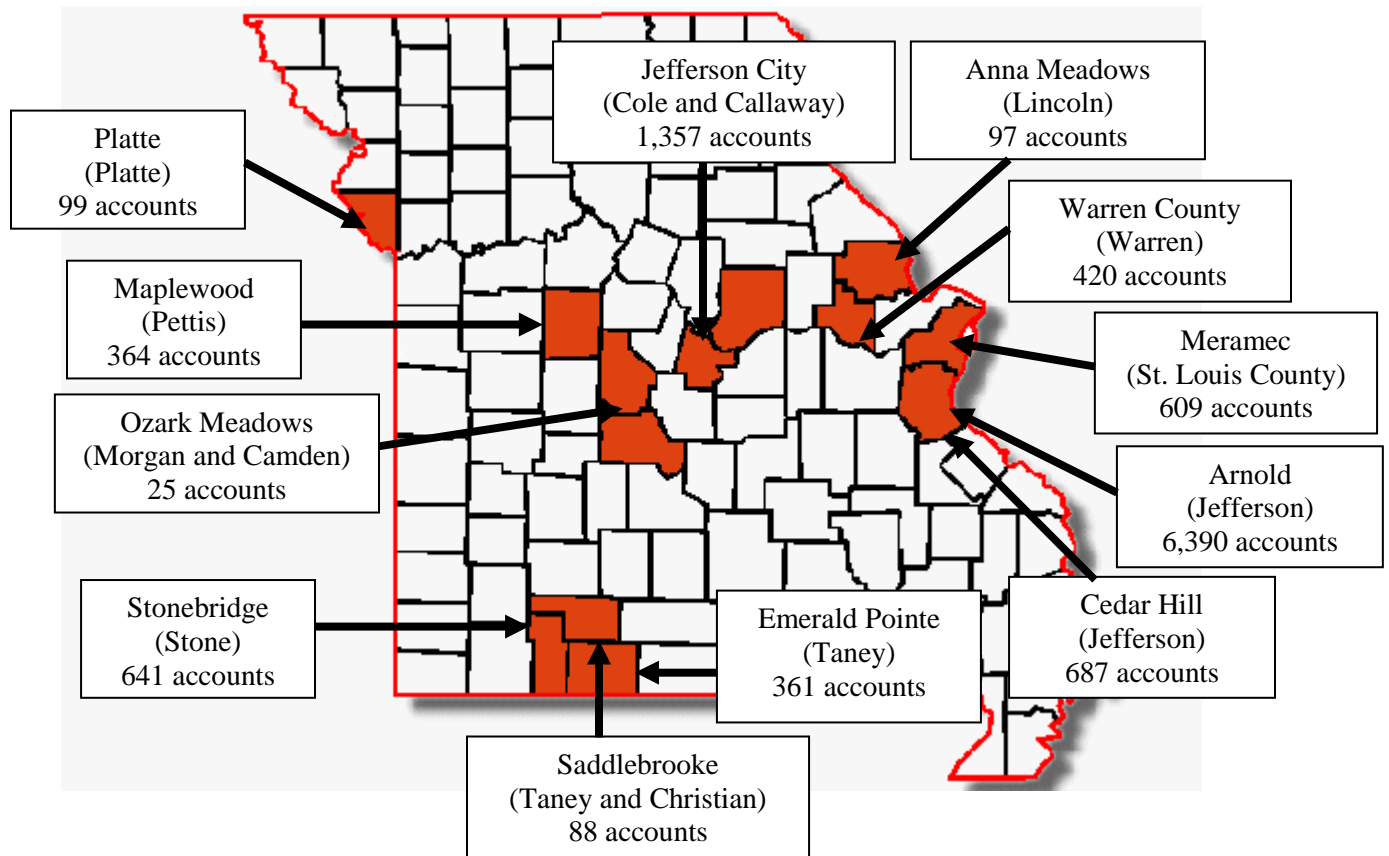


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5 It is important to note that there has already been some consolidation within these units. For
6 example, the Maplewood, Stonebridge, and Riverside systems operate in three separate
7 counties with an approximate distance of 170 miles from Pettis County, Missouri to Taney
8 County, Missouri for that billing group. Additionally, MAWC has five separate residential
9 customer groups within Taney County. Proximity of systems and/or system interconnections
10 historically has been grounds for consolidation of pricing alike customers. However, the
11 rationale for these presently situated small water customer account breakdowns are not
12 readily evident in that they were the result of settlement negotiation from MAWC's last rate
13 case. Further inquiry is warranted.

¹⁶ Ibid.

1 Figure 4 displays MAWC's wastewater systems as well as the highlighted counties in which
2 the system is located.

3 Figure 4: MAWC's wastewater systems with September 2015 customer account numbers¹⁷



4
5
6 **Q. What is the primary source of water for each district?**

7 A. MAWC districts rely on either groundwater (aquifers), surface water (rivers, creeks) or a
8 combination of the two as a local resource. The district breakdown can be seen in table 1
9 which was populated based on MAWC's Water Quality Reports page from the Company's
10 website:

¹⁷ Ibid.

1 Table 1: MAWC water source¹⁸

District	Water Source	District	Water Source
• Anna Meadows	Ground Water	• Platte	Ground Water
• Brunswick	Ground Water	• Rankin Acres	Ground Water
• Emerald Pointe	Ground Water	• Redfield	Ground Water
• Jefferson City	Missouri River	• Riverside Estates	Ground Water
• Joplin	Shoal Creek & Ground water	• Saddlebrooke	Ground Water
• Lake Carmel	Ground Water	• Spring Valley	Ground Water
• Lake Taneycomo	Ground Water	• St. Joseph	Ground Water
• Lakewood Manor	Ground Water	• St. Louis County & St. Charles	Missouri & Meramec Rivers
• Maplewood	Ground Water	• Stonebridge	Ground Water
• Mexico	Ground Water	• Tri-State	Ground Water
• Ozark Mountain No.1	Ground Water	• Warren	Ground Water
• Ozark Mountain No. 2	Ground Water	• Warrensburg	Ground Water
• Ozark Mountain No. 3	Ground Water	• White Branch	Ground Water

2
 3 The terms “ground water” and “surface water” only reflect the most general description of
 4 where the water is drawn. The extraction, treatment and delivery of that water at the local
 5 level will vary considerably from site to site. For MAWC ratepayers, more than 80% of the
 6 total customer base is composed of residents in the St. Louis Metro, Jefferson City and Joplin
 7 districts who rely primarily on surface water from rivers or creeks. However, the majority of
 8 districts rely on local ground water sources. Not all ground water or surface water is alike.
 9 For example, surface water availability and quality can be understood in part by identifying
 10 the appropriate river basin a district is situated in.

¹⁸ Missouri American Water Quality Reports (2016). <http://www.amwater.com/moaw/water-quality-and-stewardship/water-quality-reports.html>

1 Just as a bathtub catches all of the water that falls within its sides, a river basin (creeks,
2 waterways, storm water runoff, drainage lines, etc.) sends all of the water falling within it to a
3 river. In the state of Missouri: the Mississippi, the Missouri and the Arkansas-White River
4 basins provide the primary sources of surface water. This breakdown can be seen in Figure 5.

5 Figure 5: Major drainage basins in Missouri¹⁹



6
7 Surface water is generally more expensive to treat than ground water. While both sources are
8 dependent on fluctuations in the weather, surface water availability will be impacted more
9 rapidly during both droughts and heavy rain seasons. Ultimately, the interdependence of the

¹⁹ Missouri Water Quality Assessment (1997) Water Resources Report Number 47, Missouri State Water Plan Series Volume III. P. 6. <http://dnr.mo.gov/pubs/WR47.pdf>

1 ecosystem is such that any major development in either source will impact the quantity and
2 quality of the other.²⁰

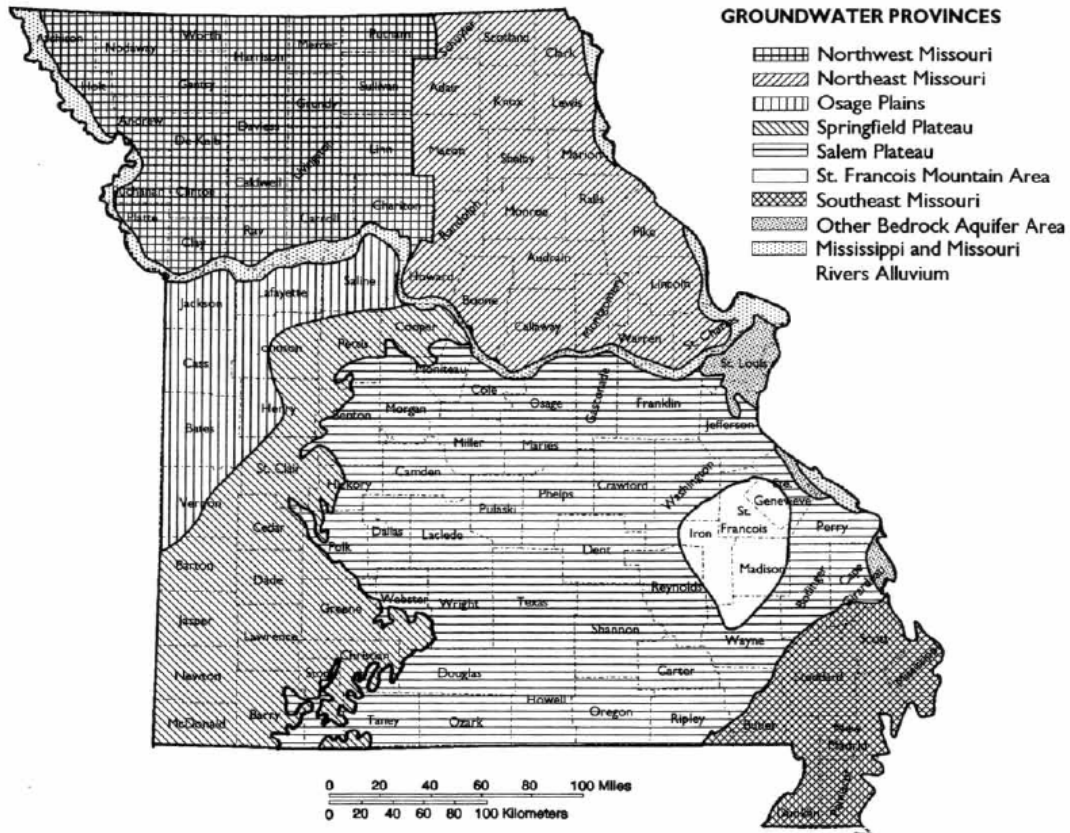
3 The majority of MAWC districts rely primarily on groundwater; the quality, cost and
4 treatment of groundwater varies regionally throughout the state. In Missouri, the occurrence
5 of groundwater is related primarily to the local geological conditions that determine the type
6 and properties of aquifers. On a whole, groundwater resources are not evenly distributed,
7 with usable groundwater most abundant from the Ozark aquifer in the Springfield and Salem
8 Plateau and sparsest in the St. Francois Mountain area.²¹ According to the last statewide
9 Missouri Water Quality Assessment report, seven groundwater provinces were formed
10 “using factors such as physiography, geology, hydrology, and vulnerability to
11 contamination.”²² These provinces can be seen in Figure 6.

²⁰ Winter, et. al (1998). U.S. Geological Survey Circular 1139. Ground Water and Surface Water a Single Source.
<http://pubs.usgs.gov/circ/circ1139/pdf/circ1139.pdf>

²¹ Missouri Department of Natural Resources (2016) Missouri Groundwater Provinces and Aquifer Characteristics
<http://dnr.mo.gov/geology/wrc/groundwater/education/provinces/gwprovince.htm>

²² Ibid.

1 Figure 6: Groundwater provinces of Missouri²³



2
3 Variations between districts are based in part on the accessibility and availability of those
4 sources of water. Location matters in the water utility cost of service, for the quality of the
5 product, and for the availability of the resource in a manner that is not comparable to electric
6 or gas operations. For example, an Ameren Missouri customer in Jefferson City is not
7 dependent on the availability, treatment and distribution of Jefferson City fuel or generation
8 to power their lights. Treating MAWC customers as if they function under the same market
9 conditions or have the same resource flexibility as Ameren Missouri customers runs counter
10 to the manner in which MAWC actually operates.
11

²³ Ibid.

1 **III. THE PRINCIPLE OF COST CAUSATION IN RATE MAKING**

2 **Q. Please explain the principle of cost causation.**

3 A. As stated in the Company's Rates Information page of their website:

4 Missouri American Water rates are based on the true cost of providing water
5 service to our customers. Rates vary based on the cost of providing service in
6 each of the communities we serve.²⁴

7 Cost causation suggests that the cost causer pays the cost it imposed on the utility system.
8 This is what is known as cost-based rates, which are designed to prevent unjust or undue
9 discrimination between rate classes or customers. Because CTP merges non-contiguous
10 systems the cost-causation principle is diminished, if not entirely abandoned. Under a CTP
11 design the approved rates would not accurately reflect the costs caused by the customer who
12 would pay them. The emphasis on "costs" in this argument is usually confined to large
13 capital investment costs that service only the local system and not common costs such as
14 billing. The argument for a departure from this principle often rests on two general points: 1)
15 the need to meet safe and adequate service; and 2) that in the long-run every service area will
16 need major capital investments and therefore will be subsidized by another service area. I
17 will address each point in turn.

18 **Q. Would CTP ensure safe and adequate service?**

19 A. This basic question centers on whether an improvement in social equity resulting from
20 consumers facing the same price across districts is better than the loss of efficiency in pricing
21 should consumers no longer face the particular costs that affect the provision of service in
22 their local area. To put it another way, CTP is a pricing response not a costing response to
23 providing service. Consequently, any consolidation grounded primarily on social equity
24 considerations should be examined in their totality to prevent any unnecessary subsidization
25 or unintended impact on those customers who can least afford to bear the burden.

²⁴ Missouri American Water. Rates Information (2016). <http://www.amwater.com/moaw/customer-service/rates-information.html>

1 **Q. Do MAWC's residential customers share similar income levels?**

2 A. No. Not surprisingly, important descriptive economic data of MAWC's districts suggest that
3 there is considerable variation across income levels, multi-family housing rates, housing
4 ownership rates and poverty levels. Table 2 provides U.S. Census information on some of
5 these key socio-economic variables.

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1 **Table 2: U.S. Census data on MAWC service counties**^{25,26}

District / County	Accounts in district (Sept. 2015)	Multi-unit Housing 2009-2013	Homeowner rate % 2009-2013	Population % change 2010-2014	Median Income 2009-2013	% below poverty level 2009-2013
St. Louis Metro						
St. Louis County		22.7%	71%	0.3%	\$58,910	10.9%
St. Charles	343,816	15.6%	80.3%	5.3%	\$71,077	5.8%
Jefferson		9.1%	82.6%	1.8%	\$54,845	11.3%
St. Joseph						
Buchanan	28,389	20.1%	64.7%	0.3%	\$44,363	17.0%
Andrew		11.5%	76.7%	0.5%	\$54,336	8.2%
Joplin						
Jasper	20,859	15.6%	64.5%	0.1%	\$40,399	18.4%
Newton		7.1%	74.9%	0.8%	\$42,268	15.0%
Jefferson						
Cole	9,033	24.5%	66.8%	0.8%	\$53,931	13.3%
Warrensburg						
Johnson	6,644	20.7%	61.4%	3.4%	\$47,223	17.6%
Platte						
Platte	5,484	28.1%	64.3%	6.1%	\$67,721	7.4%
Mexico						
Audrain	4,294	10.2%	74.2%	1.4%	\$43,013	17.0%
Tri-States						
Taney	2,986	31.5%	63.2%	4.9%	\$38,461	18.8%
MRS, EMP, Saddlebrooke						
Taney	1,757	31.5%	63.2%	4.9%	\$38,461	18.8%
Pettis		14.2%	69.6%	0.1%	\$38,580	18.4%
Benton		2.9%	84.0%	-1.3%	\$32,951	20.1%
Stone		11.7%	78.6%	-3.4%	\$40,850	17.1%
OML						
Barry	501	7.3%	75.9%	0.2%	\$38,710	19.1%
Taney		31.5%	63.2%	4.9%	\$38,461	18.8%
Brunswick						
Chariton	341	7.4%	76.2%	-1.7%	\$39,385	16.5%
RKA						
Greene	221	22.2%	59.3%	3.9%	\$40,337	18.7%
SPV						
Christian	130	12.4%	74.0%	6.0%	\$52,838	10.6%
Stone		11.7%	78.6%	-3.4%	\$40,850	17.1%
Anna Meadows						
Lincoln	97	7.0%	78.1%	3.2%	\$52,835	13.6%
Missouri	424,552	19.7%	68.4%	1.2%	\$47,380	15.5%

²⁵ U.S. Census Bureau (2016) State & County QuickFacts. <http://quickfacts.census.gov/qfd/states/29000.html>

²⁶ See attachment GM-3 for a breakdown of socio-economic data for district/county specific MAWC wastewater systems.

1 At first glance, based on the Census data cited above one could theoretically make an equity
2 argument that St. Louis Metro’s average ratepayers would be in a better comparative position
3 to shoulder an increase in rates compared to other “average” ratepayers in many of the other
4 districts.

5 Of course, given the number of customers within St. Louis Metro it is hardly surprising that a
6 more granular examination of the data within that district reveals large socio-economic
7 disparities. For example figure 7 provides a comparison across 4 municipalities within St.
8 Louis County:

9 Figure 7: Descriptive economic data of select communities within the St. Louis Metro District

Municipality	Population	Multi-unit housing	Home Ownership	Population Change	Median Income	% Below Poverty
Ladue	8,576	0.0%	96.1%	1.2%	\$176,369	1.6%
Bellefontaine Neighbors	10,807	6.1%	74.2%	-0.4%	\$37,337	23.5%
Creve Coeur	17,868	38.4%	68.9%	0.2%	\$89,203	6.0%
Ferguson	21,086	23.8%	58.7%	-0.6%	\$38,685	24.9%

10 There are only 11 miles separating Ladue from Ferguson in St. Louis County, but the socio-
11 economic data suggests a much greater distance between these ratepayers; however, under
12 the principles of cost causation and district-specific pricing, both ratepayers in Ferguson and
13 Ladue will pay the same rates and receive the same service *because* they share the same
14 water system. Under a CTP design, Ferguson (and Ladue) residents would be subsidizing
15 future high cost districts geographically disbursed across the state and in which no direct
16 benefit would be received in St. Louis Metro. This would produce a result for St. Louis
17 Metro customers well beyond the zone of “just and reasonable.”

1 In this case, MAWC has not provided any compelling evidence that consolidation of
2 MAWC's districts is warranted. In fact, it appears likely that a movement to further
3 consolidate would place an additional burden on those least able to bear it.

4 **Q. Please respond to the premise that every district will need capital investment in the**
5 **long-run and, therefore, be subsidized by someone else.**

6 A. It is true that given a long enough timeframe all water and wastewater systems will be subject
7 to entropy and need to be replaced. Under a CTP design in any particular year, the costs of
8 any single large investment in a particular area would be socialized over a wider body of
9 ratepayers, reducing the impact on individuals. Over many years, the total costs would be the
10 same, but the variation from year-to-year would be reduced. Still, despite the benefits in
11 reducing year-to-year changes in rates, it does not alter the reality that some areas are more
12 costly to serve than others, thus resulting in long-term winners and losers.

13 However, under the current regulatory system, in which the investment costs of individual
14 districts are kept separate, existing customers have no concern about a utility's expansion or
15 purchase of a new district. Approval of a CTP design would enhance the Company's
16 monopolistic reach by making future acquisitions much more attractive thus collectively
17 passing those future acquisition costs to present-day ratepayers as well. Over time, the total
18 costs would be much greater as systems would be added increasing rate base.

19 **Q. Is the acquisition of water and wastewater systems a part of MAWC's business**
20 **strategy?**

21 A. Yes, according to American Water's 10-K filing:

22 An important part of our growth strategy is the acquisition of water and
23 wastewater systems. . . . We compete with governmental entities, other

1 regulated utilities, and strategic and financial buyers, for acquisition
2 opportunities.²⁷

3 The potential privatization of public systems coupled with a decreased competitive
4 environment from other private utilities or governmental entities as a result of a CTP design
5 is a topic that is largely beyond the scope of this testimony. No doubt, there are appropriate
6 circumstances where systems and the associated ratepayers would and should benefit from
7 MAWC's professional expertise. OPC has historically supported appropriate consolidation
8 on a case-by-case basis. However, a CTP design in this case would clearly give MAWC a
9 competitive advantage in the market place for future municipal acquisitions.

10 **IV. INAPPROPRIATE PRICE SIGNAL TO CONSUMERS**

11 **Q. Will a CTP design provide accurate price signals to consumers?**

12 A. No, a CTP design would not reflect the true cost of service and send an inefficient price
13 signal to water customers.

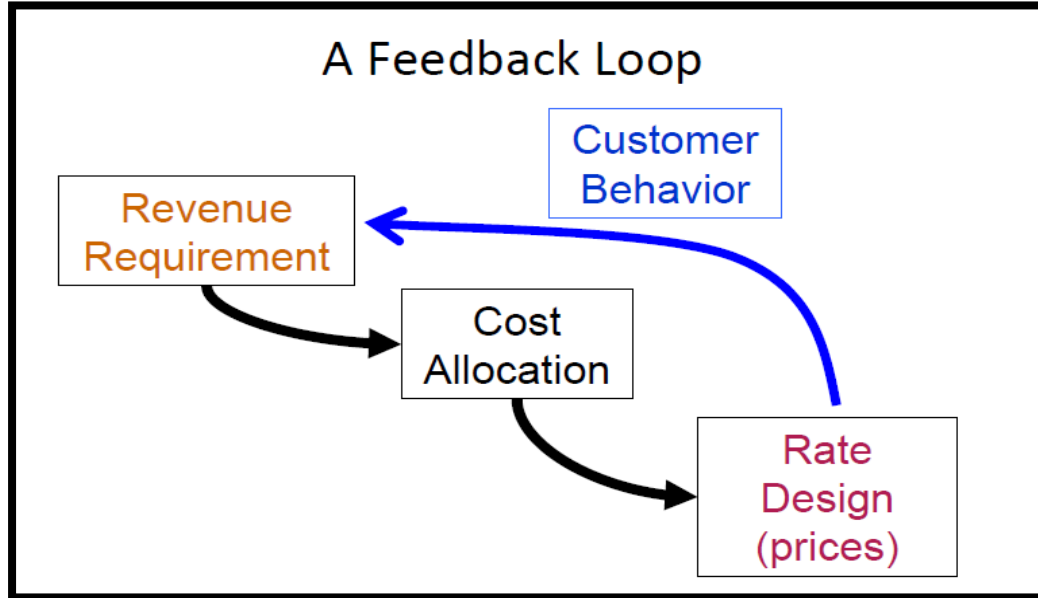
14 **Q. Please explain.**

15 A. Ratepayers respond to prices. Therefore, how rates are designed will impact ratepayer
16 behavior and future outcomes. For example, we know we can expect a different response to a
17 high customer charge and a low volumetric charge than from a low customer charge and a
18 high volumetric charge, even if the two are designed to produce equal revenues in the short
19 run. In the long run the design that is chosen will direct future costs because the price signal
20 functions as a feedback loop designed to influence customer behavior. This is illustrated in
21 figure 8.

22
23

²⁷ American Water Works Company (2015) Form 10-K Securities and Exchange Commission.
<http://ir.amwater.com/Cache/29123208.PDF?Y=&O=PDF&D=&FID=27943982&T=&OSID=9&IID=4004387> p.
22-23.

1 Figure 8: Feedback loop of rate design price signals



11 A CTP design minimizes the cost allocation component by averaging out the spatial
12 allocation of the costs of service from each district to all ratepayers. Consumers in low-cost
13 districts are required to purchase water at prices that exceed the real cost of their
14 consumption. A CTP design, therefore, represents a “tax” which discriminates against
15 systems that control their costs and favor those that do not. From a cost control point of view,
16 therefore, a CTP design is a zero-sum situation. Thus, a movement towards CTP would have
17 the effect of increasing consumption in high cost service areas and lowering consumption in
18 the low cost service areas.²⁸ This is economically inefficient, potentially discriminatory and
19 an inconsistent policy position based on how the Commission and the State has valued
20 natural resources. For example, any conservation efforts would be undermined exactly where
21 they are needed most.

22

²⁸The price elasticity literature, however, is clearer about the usage effects of price increases than the usage effects of price decreases. This will be discussed in greater detail in rebuttal testimony within the context of MAWC’s proposed decoupling mechanism.

1 **V. OVERINVESTMENT OF INFRASTRUCTURE**

2 **Q. Can a CTP design lead to overinvestment of infrastructure?**

3 A. Yes, this phenomenon, known as the Averch-Johnson and Willisz (A-J-W) effect, or what is
4 colloquially known as “gold plating,” reflects a utility’s tendency to expand its rate base,
5 regardless of the optimal level of capital investment. MAWC’s objective for shareholders is
6 to maximize profits, which occurs by maximizing capital investments and the associated
7 return. The Commission’s objective is to ensure the private sector provides safe, clean water
8 at the lowest cost to the users and the state while permitting utilities to earn a fair return on
9 their shareholder’s investment. In satisfying their obligation to provide safe and reliable
10 service to their ratepayers, MAWC has an incentive to invest in capital improvements rather
11 than O&M expenses, even if a capital improvement represents a sub-optimal solution as
12 compared to non-capital production factors. Unlike O&M expenses, capital expenditures
13 provide a rate of return to their shareholders when ultimately included in rate base—this bias
14 towards capital investment can lead to “gold plating” of water systems. A CTP design
15 enables this behavior.

16 **Q. Can overinvestment occur for capital improvements due to environmental compliance**
17 **mandates?**

18 A. Yes. Gold plating is a potential issue for all capital improvements. In fact, Staff spoke
19 convincingly at length on this issue in its Reply Brief from SW-2011-0103, which was
20 replying to Aqua Missouri (a former IOU operating in Missouri):

21 Aqua Missouri argues that Staff’s concerns regarding overinvestment are
22 overblown in light of the fact that the vast majority of Aqua’s [sic]
23 Missouri’s capital improvements are tied to environmental compliance
24 mandates. Assuming that such environmental compliance measures are
25 mandated by state and/or federal authorities, **Staff would argue that single-**
26 **tariff pricing is not necessary to facilitate these mandatory**
27 **improvements.** Staff is unaware of, and would be shocked to encounter, any

1 situation in the past where Aqua Missouri has not had sufficient capital
2 necessary to meet environmental compliance requirements (emphasis
3 added).²⁹

4 The Staff Reply Brief then addresses Aqua Missouri's claim that any prudency issue could be
5 addressed in a general rate proceeding where capital investments could be reviewed and
6 challenged. Again, Staff states:

7 While technically true, proving that a company acted in an imprudent
8 manner regarding system overinvestment is a very difficult proposition. As
9 pointed out by Aqua Missouri, much of the investment that is made by the
10 water and sewer industries is closely related to environmental compliance.
11 However, not all investments made to meet environmental compliance
12 mandates are necessarily prudent or cost-effective. Environmental
13 compliance mandates (i.e. environmental regulations) focus largely on ends,
14 as opposed to means. In other words, these regulations generally dictate the
15 results that must be reached, not the methods that must be employed in
16 reaching them. Engineers often differ on what is technically appropriate
17 and/or cost-effective solution to an environmental compliance problem, i.e.,
18 the means necessary to meet the required end. **A company that does not**
19 **have a focus upon the localized financial impacts of its decisions will**
20 **have less incentive to keep costs, environmental or otherwise, at a**
21 **minimum.** Staff and other parties will have the difficult task of proving that
22 although some investment was necessary, the specific undertaken was
23 excessive, imprudent, or not cost-effective. Staff would point out that as a
24 practical consideration, most environmental compliance measures are
25 undertaken at the direction of the Missouri Department of Natural Resources

²⁹ SW-2011-0103. (1/12/2011) Reply Brief of the Staff of the Missouri Public Service Commission Item No. 283. In the Matter of the Review of Economic, Legal and Policy Considerations of District-Specific Pricing and Single-Tariff Pricing. p. 3-4.

1 (“DNR”). Once DNR determines that system upgrades are necessary, DNR
2 approves a company’s proposed compliance plans. **In Staff’s opinion, these**
3 **approvals are largely based upon the technical feasibility of the**
4 **proposed solutions and do not focus upon the bottom line impact of**
5 **these decisions on ratepayers.** Staff is not involved in the compliance plan
6 approval process and, therefore, often does not have the practical ability to
7 voice technical or economic opposition at the time such decisions are made.
8 As a result, Staff is left to argue that an investment decision was imprudent,
9 after having been approved by another state agency. This is a very difficult
10 task (emphasis added).³⁰

11 OPC wants to encourage proper investment, not overinvestment. By diminishing the price
12 signal of any given investment, ratepayers are exposed to an increased risk of overpaying for
13 systems they do not need.

14 VI. STAFF’S RATE DESIGN REPORT

15 Q. Please comment on Staff’s Rate Design report.

16 A. OPC is in general agreement with Staff’s rate design report and looks forward to discussing
17 the Company’s proposed decoupling mechanism in rebuttal testimony. Regarding the
18 importance of rate design on customer consumption and meeting a utility’s revenue
19 requirement, there are many factors that contribute to usage from one year to the next and
20 from one water utility to another. In addition to pricing, weather, economic factors, and
21 customer demographics influence water use, and subsequently revenue. Similarly, there are
22 many factors that impact the revenue stability for a water utility, such as cost drivers, service
23 area characteristics, and demand projections. As is true with all rate structures, over time,
24 maintaining equity and efficiency between customers with a given rate and rate structure
25 requires periodic reviews.

³⁰ Ibid. p. 4-5.

1 Based on our initial review of the data utilized in the Company's work paper's (Company
2 witness Dunn) as well as the data provided to Staff as the basis for requests in DR 0235
3 (Monthly Customer Usage per Class per District) and DR 0239 (Monthly Customer Counts
4 per Class per District) there appears to be a considerable amount of unexplained anomalies in
5 both usage and customer accounts.

6 OPC has included these data sets in GM-4 (work papers of Company Witness Dunn), GM-5
7 (Response to Staff's DR-0235), and GM-6 (Response to Staff's DR-0239). Cells highlighted
8 in GM-4 indicate either a different monthly customer account number per district or a
9 different monthly customer usage amount per district between the Company's work paper's
10 and the Company's response to Staff's data requests. Note that, no attempt was made to
11 reconcile the difference in data in the St. Louis Metro accounts due to missing usage
12 amounts.

13 With this in mind, Public Counsel is proposing that the Commission consider opening a Rate
14 Design docket specifically for Missouri American Water following the conclusion of this
15 case in which agreed to metrics are in place and further policy direction from the
16 Commission is provided.

17 **Q. Does this conclude your testimony?**

18 A. Yes.

CASE PARTICPATION OF
GEOFF MARKE, PH.D.

Company Name	Employed Agency	Case Number	Issues
Missouri American Water	Office of Public Counsel (OPC)	WR-2015-0301	Direct: Consolidated Tariff Pricing / Rate Design Study
Working Case: Decoupling Mechanism	OPC	AW-2015-0282	Memorandum: Response to Comments
Rule Making	OPC	EW-2015-0105	Missouri Energy Efficiency Investment Act Rule Revisions, Comments
Union Electric Company d/b/a Ameren Missouri	OPC	EO-2015-0084	Triennial Integrated Resource Planning Comments
Union Electric Company d/b/a Ameren Missouri	OPC	EO-2015-0055	Rebuttal: Demand-Side Investment Mechanism / MEEIA Cycle II Application Surrebuttal: Potential Study / Overearnings / Program Design Supplemental Direct: Third-party mediator (Delphi Panel) / Performance Incentive Supplemental Rebuttal: Select Differences between Stipulations
The Empire District Electric Company	OPC	EO-2015-0042	Integrated Resource Planning: Special Contemporary Topics Comments
KCP&L Greater Missouri Operations Company	OPC	EO-2015-0041	Integrated Resource Planning: Special Contemporary Topics Comments
Kansas City Power & Light	OPC	EO-2015-0040	Integrated Resource Planning: Special Contemporary Topics Comments
Union Electric Company d/b/a Ameren Missouri	OPC	EO-2015-0039	Integrated Resource Planning: Special Contemporary Topics Comments
Union Electric Company d/b/a Ameren Missouri	OPC	EO-2015-0029	Ameren MEEIA Cycle I Prudence Review Comments
Kansas City Power & Light	OPC	ER-2014-0370	Direct (Revenue Requirement): Solar Rebates Rebuttal: Rate Design / Low-Income Weatherization / Solar Rebates Surrebuttal: Economic Considerations/ Rate Design / Cyber Security Tracker
Rule Making	OPC	EX-2014-0352	Net Metering and Renewable Energy Standard Rule Revisions, Comments
The Empire District Electric Company	OPC	ER-2014-0351	Rebuttal: Rate Design/Energy Efficiency and Low-Income Considerations

Working Case: Utility Pay Stations and Loan Companies	OPC	AW-2014-0329	Comments: Response to Staff Report
Union Electric Company d/b/a Ameren Missouri	OPC	ER-2014-0258	Direct: Rate Design/Cost of Service Study/Economic Development Rider Rebuttal: Rate Design/ Cost of Service/ Low Income Considerations Surrebuttal: Rate Design/ Cost-of-Service/ Economic Development Rider
KCP&L Greater Missouri Operations Company	OPC	EO-2014-0189	Rebuttal: CAM Sufficiency of Filing Surrebuttal: CAM Sufficiency of Filing
KCP&L Greater Missouri Operations Company	OPC	EO-2014-0151	Renewable Energy Standard Rate Adjustment Mechanism (RESRAM) Comments
Liberty Natural Gas	OPC	GR-2014-0152	Surrebuttal: Energy Efficiency
Summit Natural Gas	OPC	GR-2014-0086	Rebuttal: Energy Efficiency Surrebuttal: Energy Efficiency
Union Electric Company d/b/a Ameren Missouri	OPC	ER-2012-0142	Direct: PY2013 EM&V results / Rebound Effect Rebuttal: PY2013 EM&V results Surrebuttal: PY2013 EM&V results
Kansas City Power & Light	Missouri Public Service Commission Staff	EO-2014-0095	Rebuttal: MEEIA Cycle I Application testimony adopted
KCP&L Greater Missouri Operations Company	Missouri Division of Energy (DE)	EO-2014-0065	Integrated Resource Planning: Special Contemporary Topics Comments
Kansas City Power & Light	DE	EO-2014-0064	Integrated Resource Planning: Special Contemporary Topics Comments
The Empire District Electric Company	DE	EO-2014-0063	Integrated Resource Planning: Special Contemporary Topics Comments
Union Electric Company d/b/a Ameren Missouri	DE	EO-2014-0062	Integrated Resource Planning: Special Contemporary Topics Comments
The Empire District Electric Company	DE	EO-2013-0547	Triennial Integrated Resource Planning Comments

APPENDIX A

THE HISTORY OF RATE DESIGN FOR MAWC SINCE 1989

A review of the single tariff pricing vs. district-specific pricing debate as it relates to MAWC, begins with a discussion of the “old” Missouri Cities Water Company (Missouri Cities). In approximately 1989, in Commission Case No. WR-89-178, et al., *In the matter of the application of Missouri Cities Water Company of St. Charles, Missouri, for authority to file tariffs designed to increase rates for water service to customers in the Missouri service area of the Company.* (October 4, 1989). (Unreported), Missouri Cities proposed a system of uniform rates that set uniform service charges for all its water districts¹, along with a differential volumetric rate for softened water versus unsoftened water, and separate, higher volumetric rates for Brunswick. The parties to the case reached a stipulation on the rate design issue. Although the stipulation made no significant progress toward a uniform rate, Missouri Cities and OPC supported uniform rates to one degree or another and recognized some of the benefits as a basis for recommending approval of uniform rates (albeit only a partial approval in the case of OPC) Report & Order, p. 2, 3.

In approximately 1990, in Case No. WR-90-236, Missouri Cities again proposed uniform rates, but then tempered the proposal by developing an “equalization” rate, which, when added to the uniform rate, effectively resulted in the same district-specific rates as were approved in the previous case. *In the matter of Missouri Cities Water Company*, 30 Mo. P.S.C. (NS) 363 (October 12, 1990). This case was revenue neutral, that is, the newly proposed rate design was not intended to increase or decrease overall company revenues, but merely to implement the

¹ In 1989, Missouri Cities provided water service to the following five (5) areas or districts: Brunswick, Mexico, Platte County, St. Charles County, and Warrensburg.

uniform rate with an “equalization” rate adjustment. The Commission approved the uniform rate tariff with an equalization rate adjustment in this case stating as follows:

The Commission has reviewed the evidence in this matter and finds that the proposal to establish a system-wide rate for water service is reasonable. These tariffs would not make everyone’s water bill the same. This proposal would only make future rate increases the same. That is, current differences in rates among the districts would remain the same but the increases would be spread equally among all customers. The Commission finds also that the proposal to establish equalization rates to maintain the current differentials between Company districts is also reasonable. The Commission agrees with Public Counsel that the proposal will allow Company to spread future increases in rates on a system-wide basis while maintaining the current rate differential which will reduce rate shock in future cases and limit cross-subsidization. Spreading the costs to all Company customers will also allow Company greater flexibility in timing plant additions.

The Commission agrees with Public Counsel that the equalization rates should stay in effect until some future date. Even though an equalization rate might change because of changed billing determinants, the Commission finds that the current rate differential should be maintained. This matter can be reviewed in some future rate case.

30 Mo. P.S.C. (NS) at 365.

The next Missouri Cities rate case was in approximately 1991 (Case No. WR-91-172). *In the matter of Missouri Cities Water Company*, 1 Mo. P.S.C. 3d 119 (September 20, 1991). The Report and Order summarized the position of the parties on rate design as follows:

Company, Public Counsel, Warrensburg and the City of St. Peters urge the Commission to stay with Company’s “uniform” rate design, a design which this Commission approved in Company’s revenue neutral rate design case, No. WR-90-236. Platte County Intervenors would have the Commission adopt “full” uniform rates.

1 Mo. P.S.C. 3d at 144. The Commission further observed “The aim of the parties in the rate design case, including OPC, was to formulate a design which would eventually lead to uniform Company-wide rates, and according to OPC, ‘single tariff’ filings.” *Id.* at 144. The Commission’s statement of policy at that time was as follows:

The Commission continues to support the concept of system-wide rates for Company, and in this respect is of the opinion that Staff's proposal to establish a system-wide flat rate for Company's minimum monthly charge and private fire charge is a step in the right direction.

Id. at 147.

In approximately 1992 (Case No. WR-92-207), Missouri Cities again proposed to spread an increase to all districts under the uniform rate, but to maintain the equalization rate component. *In the matter of Missouri Cities Water Company*, 2 Mo. P.S.C. 3d 60 (January 8, 1993). The Commission decision in that case maintained the equalization rate component since “. . . Missouri Cities has not completed its first ‘building cycle’ since the implementing of uniform rates barely a year ago in Case No. WR-91-172.” 2 Mo. P.S.C. 3d at 89. Again, the Commission expressed a desire, at some future date, to implement uniform rates. After completion of this case, Missouri Cities was acquired by MAWC, See *In the Matter of the Application of Missouri-American Water Company for approval of its acquisition of the common stock of Missouri Cities Water Company*, 2 Mo. P.S.C. 3d 305 (July 30, 1993).

The first consolidated case for MAWC after acquiring the Missouri Cities' properties was in 1995 (Case No. WR-95-205), *In the matter of Missouri American Water Company*, 4 Mo. P.S.C. 3d 205 (November 21, 1995), in which the Company proposed a “stepped” implementation of single tariff pricing for the seven (7) districts of the merged Company². Three parties to the case, Company, Staff and OPC, joined in a stipulation in an effort to resolve the single tariff pricing issue by implementing a three step implementation plan. After hearing testimony on the issue, the Commission concluded:

The Commission finds the proposed move toward single tariff pricing for

² Those seven (7) districts included the five (5) districts previously served by Missouri Cities, plus Joplin and St. Joseph.

Missouri-American and all of its districts, as jointly agreed to by the Staff, Missouri-American and OPC and as, to some degree, supported by all Intervenors, is therefore in the public interest

Id. at 226.

As a result of the Stipulation and Agreement in Case No. WR-95-205, MAWC began a three step process toward full implementation of single tariff pricing. In the first step, MAWC implemented uniform rates in its St. Joseph, Joplin, Platte County and St. Charles Districts immediately upon the conclusion of the case. Rates in the Mexico and Brunswick Districts were lowered, but they were still above the uniform level established for the other four districts. Rates in Warrensburg were increased but they were still below the level of the uniform rates. In the second step, which occurred one year after implementation of the rates set in Case No. WR-95-205, (approximately December 5, 1996), rates in the Warrensburg District were again increased, and the rates in Mexico and Brunswick were reduced so that the overall impact on MAWC was revenue neutral.

In the third step (and consistent with the Stipulation), MAWC proposed implementation of uniform rates for all of its districts in its 1997 rate case filing (Case No. WR-97-237 et al.), *In the matter of Missouri American Water Company*, 6 Mo. P.S.C. 3d 549 (November 6, 1997). In its Report and Order, the Commission approved a rate design based upon single tariff pricing given the record in that case. However, the Commission also expressed a desire to make a more detailed comparison of the methodologies before making a final commitment to single tariff pricing. The Commission stated as follows:

The difficulty for the Commission is that, without a district specific cost study there is no way to compare the resulting rates under STP with the resulting rates under more traditional ratemaking. The Commission is left with unsupported allegations from both sides of the controversy as to which method is theoretically

superior.

6 Mo. P.S.C. 3d at 556.

The Commission agrees with OPC that the distinction between costs which are directly assignable to specific customer groups, and costs which are joint and common costs cannot be made without a detailed cost of service study. The Commission also agrees with OPC that it can only properly evaluate the advantages and disadvantages of a uniform rate design if it has the necessary information for a clear understanding of the design's financial impact.

Id at 557.

Subsequently, on November 20, 1997, the Commission issued its Order Establishing Class Cost of Service Study and Rate Design Case and Proceeding Notice in Case No. WO-98-204. As a result of the proceedings in that case, the Commission found as follows:

Although the Commission's decision in Case No. WR-97-237 adopted a rate design that used STP, the Commission declined to announce what approach it would use during MAWC's next rate case. The record indicates that it is anticipated that the St. Joseph water treatment plant currently under construction may be added to the rate base in MAWC's next rate proceeding. This, in itself, is sufficient reason for the Commission to defer its decision on this issue.

8 MoPSC 3d 394, 397(November 2, 1999).

Given the significant uncertainties associated with the exact amount of rate base that will be included in rates in the next rate case, and the effects, if any, of the proposed merger of MAWC's parent with the parent of St. Louis County Water Company, the Commission will not attempt to decide the rate design issue until the next rate case.

Id at 397.

In 2000, MAWC filed another rate case for its seven (7) water districts and proposed to maintain the single tariff pricing rate design then in effect. (Case No. WR-2000-281), *In the Matter of Missouri-American Water Company*, 9 MoPSC 3d.254, (August 31, 2000).³ Of

³ Although, MAWC had acquired the St. Louis County Water Company and United Water Missouri, Inc. around the time of the filing of this rate case, MAWC had not had sufficient time to incorporate or merge the St. Louis County

significance to the rate design issue in this case, was MAWC's request to recover the costs associated with its recent completion of an approximate \$70 million water treatment plant and related facilities in the St. Joseph District. Numerous parties intervened in the case. The City of St. Joseph and the St. Joseph Area Public Water Supply Districts supported MAWC's proposal to maintain single-tariff pricing. Virtually all of the other intervenors, including Staff and OPC, opposed STP and supported district specific pricing or something close to it. The Commission, on a three to two vote, decided the issue as follows:

The Commission will move away from STP and toward DSP. One factor for consideration in determining just and reasonable rates is public perception. The testimony adduced at the Local Public Hearings held in this matter was strongly in favor of DSP. MAWC, therefore, must set its rates separately for each service area in order to recover the appropriate revenue requirement for each service area. As the Company requested, no phase-in of rate increases shall be permitted. In moving toward DSP, however, the Commission will adhere to the principle that no district receive a rate decrease. (9 MoPSC 3d 291)

The Commission later clarified its position that "no district will receive a rate decrease" by stating that the Joplin District, which would otherwise receive an overall rate decrease under pure district-specific pricing will "contribute \$880,000 toward the total water system increased revenue requirement . . ." (Order of Clarification, p. 2, issued September 12, 2000)⁴

A number of parties sought review of various aspects of the Commission's Report and Order.⁵ As it relates to the issue of rate design, the Circuit Court of Cole County affirmed the Commission's decision to switch from single tariff pricing to district-specific pricing, but

and Jefferson City properties into its existing operations.

⁴ Although no district received an overall rate decrease, some rates to certain customer classes within a district did receive a rate decrease as a result of the Commission's adoption of the Staff's Class Cost of Service Study. (Order of Clarification, p. 2)

⁵ Initially, ten (10) Petitions for Writ of Review were filed in three (3) different counties. After issuing a Writ of Prohibition, the Missouri Supreme Court allowed seven (7) Petitions for Review to proceed in the Circuit Court of Cole County.

remanded as to its decision not to decrease the level of rates in the Joplin District finding that the Commission had not supported its decision with adequate findings of fact:

Ultimately, the Commission explained its decision regarding the Joplin rates in its Report and Order on Second Remand⁶ as follows:

FINDINGS OF FACT

* * *

14. The cost of service is simply a guide used to set rates. A just and reasonable rate, under the circumstances of this case, is one that moves away from single-tariff pricing, but tries to mitigate the resulting rate shock. One way to accomplish such a result is for “no district [to] receive a decrease in rates when another district is receiving an increase. Any extra revenues collected from districts paying more than their cost of service [should] be allocated to the smaller districts in a way that balances the rate increases among those [under-recovering] districts.

15. The Joplin district produces revenue substantially in excess of its cost of service, and has done so since Missouri-American’s last rate case.

16. Holding the Joplin district at current rates is reasonable to help offset the increases to the citizens of Brunswick, Mexico and Parkville.

* * *

CONCLUSIONS OF LAW

* * *

11. The Commission concludes that the rates paid by Joplin ratepayers prior to the Report and Order in this case were lawful and not discriminatory. They did not become discriminatory because they were not reduced, while rates in other districts increased. They did not become discriminatory even though it was demonstrated in the case that Joplin (along with some other districts) contributes more in revenue to the state-wide system than it costs to provide service, as that was true of the rates prior to this case. Joplin was not singled out to receive no reduction – no district received a reduction. Therefore, the Commission concludes that the rates charged to Joplin ratepayers in this matter are fair and reasonable and do not discriminate against Joplin ratepayers. (footnotes

⁶Case No. WR-2000-281, issued December 4, 2007.

omitted)(Order, p, 8, 12)

Although Joplin appealed the Commission's Report and Order on Second Remand, the Circuit Court of Cole County affirmed the Commission's decision. Thereafter, Joplin sought further review by the Missouri Court of Appeals – Western District, but later dismissed its appeal prior to any decision being issued by that Court.

In 2003, MAWC filed a general rate for its water districts which now totaled nine (9), as the St. Louis County Water Company and the Jefferson City Waterworks Company (f/k/a United Water Missouri, Inc.) had been merged with MAWC. *In the matter of Missouri-American Water Company's Tariff to Revise Water and Sewer Rate Schedules*, 12 MoPSC 3d. 409, (April 6, 2004). That rate case was ultimately resolved by Stipulation of the Parties. With regard to revenue requirements, the Parties agreed that there would be no revenue increases for any of the Water Districts, but that the Joplin District would receive a \$350,000 revenue reduction. With regard to the issue of rate design, the Commission made the following specific findings:

The Rate design Stipulation and Agreement filed on January 7 addressed, in addition to rate design, inter-district subsidies, consolidated billing, a customer class study, an interruptible industrial rate for the Joplin District, and elimination of the minimum usage amount from the Jefferson City District tariffs and some corresponding adjustments to the volumetric rates for that district. The agreed rate design is based on the current rate design, with certain adjustments. No rate adjustments will be made in the St. Louis County District, the St. Charles County District, and the Jefferson City District. Only the customer classes receiving adjustments are referred to below. . . .

The agreed rate design is revenue-neutral, that is, it redistributes the current revenue requirement for each district. Any increase or decrease in district-specific revenue requirements must be evenly distributed across the classes in the form of equal percentage changes to each revenue classification for each customer class and by applying a uniform change to each volumetric rate component for each revenue classification.

The Rate Design Stipulation and Agreement provides that the Brunswick District will receive a subsidy of \$213,000 from the St. Louis County District. There will be no other

inter-district subsidies. (12 MoPSC 3d 412))

MAWC's next general water rate case was filed in 2006 and included the water operations of Warren County Water & Sewer Company. *In the matter of Missouri-American Water Company's Request for Authority to Implement a General Rate Increase for Water Service Provided in Missouri Service Areas*, MoPSC Case No. WR-2007-0216 (October 4, 2007). Although the issue of rate design for all ten (10) water districts was settled by way of Stipulation, the Commission made the following observation as it addressed certain "allocation of cost" issues raised by the City of Joplin:

As a result of the compromises in Global Agreement, the allocation of costs to Joplin is actually less than it would be under a strict application of district-specific costs, resulting in a revenue increase for the Joplin District that is far less than it would be under a strict district-specific cost of service allocation. Joplin's main professed concern with the Global Agreement was that the resulting increase for Joplin was somehow discriminatory. Given that Joplin would receive a much lower revenue increase from the Global Agreement than it would receive using strict district-specific pricing, there is no credible argument that the Global Agreement is discriminatory. (footnote omitted) (Report and Order, p. 72-73)

MAWC's 2008 water rate case was settled by way of Stipulation. *In the matter of Missouri-American Water Company's Request for Authority to Implement a General Rate Increase for Water and Sewer Service Provided in Missouri Service Areas*, Case No. WR-2008-0311 (November 14, 2008). The only rate design issue of significance was the Agreement of the Parties to merge the St. Louis County and St. Charles County rate districts into one district, to be known as the St. Louis Metro District. (Unanimous Stipulation and Agreement, p. 3)

MAWC's 2009 rate case was also settled by way of Stipulation. *In the matter of Missouri-American Water Company's Request for Authority to Implement a General Rate Increase for Water Service Provided in Missouri Service Areas*, Case No. WR-2010-0131 (June

16, 2010). Although the Commission accepted the Stipulation, it expressed concern regarding the wide variance in rates among MAWC's service territories, stating as follows:

. . . the Commission notes that the settlement's effect on the average residential customer varies widely among MAWC's service territories . . . While the record contains substantial and competent evidence weighing in favor of the settlement's provisions, it does not describe the facts that lead to such disparity of rates. Therefore, the Commission will order a report as follows.

Staff, MAWC, and the Office of the Public Counsel shall jointly file a report setting forth, for each service in each service territory, the underlying facts that support each territory's cost of service. Such details may include, but are not limited to, variations in infrastructure requirements, age of each system, number of customers, or differences in water treatment to make water potable. Also, the report . . . will estimate a single-tariff rate based on comparable usage for the average residential customer. (Report and Order, p. 16)

On October 15, 2010, Staff, MAWC and OPC filed their Joint Report on Cost of Service in Case No. WR-2010-0131 which provided the cost and rate information requested by the Commission. That Joint Report was later transferred to the instant docket on or about October 18, 2010.

Missouri American Wastewater districts / counties in which no water service is offered*

District / County	Population by County 2014	Current customer accounts in district (Sept. 2015)	Multi-unit Housing 2009-2013	Homeowner rate 2009-2013	Population % change 2010-2014	Median Household Income 2009-2013	% of Persons below poverty level 2009-2013
Arnold Jefferson	222,716	6,390	9.1%	82.6%	1.8%	\$54,845	11.3%
Jefferson City Sewer Callaway Cole	44,750	1,357	10.8%	76.1%	0.9%	\$47,964	13.0%
Warren County Lincoln Warren	54,249 33,253	420 97	7.0% 7.5%	78.1% 79.4%	3.2% 2.3%	\$52,835 \$50,830	13.6% 13.4%
Ozark Meadows Morgan Camden	20,240 44,021	364	5.6% 27.2%	80.1% 78.2%	-1.6% 0.0%	\$34,797 \$43,458	23.4% 16.1%
Missouri	6.06 Mil	424,552	19.7%	68.4%	1.2%	\$47,380	15.5%

- Anna Meadows in Warren County serves 97 customer accounts. Depending on the data set it is either water and wastewater or only wastewater.
- There is water service in Cole County information stated in direct testimony in Table 2.

Missouri-American Water Company
Brunswick Operation (Monthly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	1,546	1,406	1,279	1,355	1,269	1,664	1,567	1,743	1,614	1,634	1,366	1,573	18,016
2006	3,029	1,406	1,180	1,130	1,448	1,325	1,361	1,357	1,337	1,403	1,430	1,532	17,938
2007	1,136	1,237	1,330	1,142	1,133	1,228	1,296	1,303	1,327	1,152	1,190	1,267	14,741
2008	1,378	1,358	934	1,124	1,254	1,075	1,391	1,010	1,053	1,219	949	1,005	13,750
2009	1,319	1,086	976	1,190	1,057	1,317	1,035	1,042	1,259	1,259	1,041	945	13,240
2010	1,346	1,454	982	1,209	1,008	1,017	1,298	1,015	1,250	978	875	1,187	13,599
2011	913	1,160	754	1,103	922	964	1,226	972	1,051	1,159	860	1,001	12,085
2012	1,037	1,053	864	845	859	1,138	1,036	971	1,094	875	887	1,021	11,829
2013	934	1,008	832	952	872	1,030	886	1,080	1,046	846	960	1,261	11,708
2014	806	1,068	789	783	769	1,001	885	1,005	926	858	942	820	10,653
2015	982	830	791	888									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	375	376	381	384	387	390	391	395	392	387	386	384	386
2006	378	379	385	387	386	392	389	388	379	377	369	368	381
2007	368	364	367	370	369	374	374	376	375	372	369	365	370
2008	363	359	361	364	366	369	372	368	364	360	358	355	363
2009	348	346	349	355	358	358	360	355	350	350	345	340	351
2010	341	341	340	344	346	344	344	344	343	346	337	330	342
2011	331	326	330	334	338	335	340	340	337	334	326	325	333
2012	324	325	330	330	332	338	341	336	337	335	327	321	331
2013	319	318	320	321	327	332	330	334	337	332	328	327	327
2014	325	327	326	329	335	338	342	339	342	340	333	333	334
2015	332	329	333	337									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	133	134	108	118	106	142	129	142	137	136	118	132	128
2006	258	132	99	97	121	113	113	113	118	120	129	134	129
2007	100	121	117	103	99	109	112	112	118	100	107	112	109
2008	122	130	83	103	111	97	121	89	96	109	88	91	104
2009	122	112	90	112	88	98	118	94	99	116	101	90	103
2010	127	152	91	117	94	97	122	95	121	91	87	116	109
2011	89	127	74	110	88	96	116	92	104	112	88	103	99
2012	103	112	84	85	83	117	98	93	108	104	101	103	98
2013	94	113	84	99	86	103	87	104	103	82	98	124	98
2014	80	117	78	79	74	99	83	96	90	81	94	79	87
2015	95	90	77	88									

Missouri-American Water Company
Mexico Operation (Monthly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	26,125	18,155	21,235	15,968	16,262	22,513	18,737	22,068	23,468	21,067	15,129	11,615	232,342
2006	34,692	15,476	19,878	15,935	21,866	20,974	19,408	18,987	22,071	17,852	17,359	18,105	242,603
2007	19,353	16,567	15,979	17,135	16,535	22,039	20,529	20,985	21,781	18,858	18,006	24,659	232,486
2008	11,849	17,143	17,032	16,532	16,437	17,601	18,639	18,355	18,020	16,506	15,944	17,322	201,580
2009	21,748	15,192	15,259	14,689	17,263	18,318	18,746	18,198	17,109	16,368	15,637	16,249	204,776
2010	19,131	15,521	14,817	17,771	15,714	16,880	19,120	17,165	17,930	16,184	15,676	14,231	200,140
2011	18,840	15,088	14,698	16,916	15,276	11,131	18,103	17,724	19,574	16,676	15,311	15,917	195,254
2012	17,335	14,998	13,829	14,292	15,362	20,283	21,290	20,467	19,805	15,477	15,210	15,621	203,970
2013	16,597	15,165	14,435	15,779	15,559	16,594	17,711	18,413	21,764	16,411	17,842	14,670	200,339
2014	11,421	18,314	13,994	14,974	14,450	17,084	16,771	17,447	15,795	15,546	12,830	14,978	183,606
2015	17,054	14,185	14,060	15,007									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	4,268	4,279	4,277	4,288	4,269	4,264	4,271	4,272	4,278	4,271	4,270	4,245	4,271
2006	4,239	4,245	4,253	4,271	4,266	4,276	4,264	4,282	4,278	4,285	4,267	4,261	4,266
2007	4,280	4,266	4,273	4,290	4,286	4,280	4,281	4,281	4,291	4,282	4,268	4,280	4,279
2008	4,280	4,279	4,278	4,265	4,272	4,275	4,269	4,278	4,283	4,264	4,278	4,253	4,273
2009	4,253	4,255	4,265	4,263	4,255	4,259	4,244	4,248	4,260	4,262	4,253	4,250	4,256
2010	4,250	4,258	4,254	4,266	4,265	4,266	4,272	4,280	4,272	4,279	4,267	4,264	4,264
2011	4,268	4,269	4,272	4,280	4,274	4,260	4,274	4,285	4,262	4,265	4,251	4,247	4,267
2012	4,263	4,271	4,299	4,299	4,274	4,294	4,280	4,285	4,282	4,284	4,273	4,263	4,283
2013	4,268	4,272	4,269	4,270	4,337	4,316	4,303	4,322	4,302	4,308	4,280	4,277	4,284
2014	4,257	4,262	4,282	4,284	4,289	4,292	4,286	4,299	4,298	4,291	4,282	4,285	4,284
2015	4,283	4,286	4,298										

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	197	152	160	124	123	176	142	167	183	159	118	88	149
2006	264	130	151	124	165	164	147	143	172	134	136	137	156
2007	146	139	121	133	124	172	155	158	169	142	141	186	149
2008	89	138	128	129	142	137	142	138	140	125	124	131	129
2009	165	128	115	115	131	143	142	138	134	124	123	123	132
2010	145	130	112	139	119	132	144	129	140	122	122	108	129
2011	142	126	111	132	115	87	137	133	153	126	120	121	125
2012	131	121	104	111	115	157	160	154	154	117	119	118	130
2013	125	127	109	123	116	128	133	137	164	123	139	164	128
2014	87	153	105	117	109	133	126	131	123	117	100	113	117
2015	128	118	106										

Missouri-American Water Company
Platte Co. Water Operation (Monthly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	40,609	29,395	31,668	26,772	37,441	53,435	54,658	66,834	55,557	39,349	33,037	20,395	489,140
2006	59,827	24,791	28,062	24,916	43,062	54,955	72,660	71,289	62,197	46,463	32,296	25,515	546,033
2007	28,827	25,026	25,445	24,304	30,501	40,288	52,423	71,967	77,366	50,195	27,910	25,526	484,597
2008	30,428	24,358	25,522	24,590	24,966	36,390	42,108	47,781	49,481	36,382	27,910	24,280	394,196
2009	30,001	24,341	22,789	23,593	28,531	36,321	44,283	44,843	38,899	32,657	26,126	23,982	376,366
2010	33,021	22,296	22,811	24,593	27,456	31,907	47,061	50,164	55,129	34,635	32,381	24,730	406,184
2011	27,787	23,130	21,069	25,878	26,593	35,936	50,273	57,833	51,670	39,627	39,627	23,871	434,889
2012	25,726	22,745	22,051	26,481	31,851	58,430	72,209	74,632	64,688	46,139	34,136	24,670	503,757
2013	25,099	25,200	21,631	21,834	22,571	35,237	47,199	57,688	62,182	40,037	31,257	23,059	412,981
2014	25,982	25,063	21,647	23,022	28,979	36,923	39,823	54,479	46,436	32,992	28,117	21,687	385,149
2015	26,530	23,555	21,412	25,443									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
1989	3,218	3,222	3,242	3,240	3,239	3,250	3,255	3,271	3,278	3,273	3,275	3,270	3,253
2005	4,777	4,782	4,784	4,800	4,806	4,817	4,838	4,830	4,848	4,855	4,860	4,869	4,822
2006	4,839	4,837	4,851	4,855	4,877	4,878	4,887	4,909	4,918	4,932	4,935	4,927	4,887
2007	4,930	4,934	4,933	4,943	4,955	4,971	4,988	4,988	5,003	5,006	5,004	5,007	4,972
2008	5,019	5,016	5,015	5,008	5,006	5,018	5,029	5,031	5,041	5,048	5,046	5,038	5,026
2009	5,028	5,039	5,044	5,044	5,052	5,053	5,049	5,049	5,049	5,040	5,050	5,046	5,045
2010	5,045	5,052	5,054	5,046	5,047	5,051	5,062	5,049	5,053	5,063	5,065	5,058	5,054
2011	5,060	5,074	5,072	5,083	5,104	5,106	5,109	5,113	5,117	5,098	5,095	5,086	5,093
2012	5,101	5,116	5,120	5,133	5,143	5,163	5,172	5,167	5,180	5,180	5,179	5,185	5,153
2013	5,191	5,203	5,214	5,221	5,255	5,269	5,287	5,286	5,291	5,267	5,267	5,289	5,252
2014	5,270	5,282	5,292	5,307	5,331	5,348	5,357	5,371	5,390	5,393	5,393	5,401	5,344
2015	5,403	5,412	5,431	5,443									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	274	220	214	186	251	370	364	446	382	281	227	135	278
2006	399	183	187	171	285	376	480	468	422	304	218	167	306
2007	189	181	166	164	199	270	345	465	515	323	211	164	267
2008	196	167	164	164	161	242	270	306	327	232	184	155	214
2009	192	173	146	156	182	240	283	287	257	209	172	153	204
2010	211	158	146	162	175	211	300	320	221	220	213	158	220
2011	177	163	134	168	168	235	317	365	337	325	259	151	234
2012	163	153	139	172	200	377	450	466	416	287	220	153	267
2013	156	173	134	139	139	223	288	352	392	245	198	141	215
2014	159	169	132	145	175	230	240	327	287	198	174	130	197
2015	158	155	127	156									

Missouri-American Water Company
Warrensburg Operation (Monthly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	41,807	24,845	26,951	24,194	27,208	35,458	35,851	40,264	37,351	29,625	24,744	19,641	367,939
2006	49,518	24,470	29,108	22,406	34,625	35,549	36,070	41,239	42,216	32,469	31,755	23,302	402,727
2007	28,855	25,037	27,659	24,946	27,567	30,131	36,648	41,417	40,434	33,185	29,743	24,835	370,457
2008	30,668	25,718	26,644	23,577	25,238	27,503	29,095	31,581	31,152	31,235	26,691	24,190	339,292
2009	27,872	26,193	22,668	21,933	28,930	26,252	30,312	29,090	29,870	27,097	25,345	24,985	320,547
2010	29,358	24,142	24,949	27,329	25,410	25,994	30,538	31,403	34,717	29,040	27,456	25,945	336,281
2011	26,838	25,690	25,209	25,815	25,219	29,489	34,250	35,763	33,994	33,683	27,790	25,443	349,183
2012	26,383	24,849	25,043	26,082	27,234	39,558	47,192	47,810	39,023	29,178	28,388	25,698	386,439
2013	26,259	26,386	24,204	24,684	26,661	28,471	35,810	38,054	39,222	30,588	27,921	24,863	353,022
2014	28,476	26,309	26,036	25,998	29,043	28,118	31,650	33,125	32,284	29,217	25,517	25,598	341,370
2015	26,288	24,428	25,255	25,820									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
1989	4,110	4,123	4,136	4,140	4,151	4,096	4,093	4,101	4,218	4,242	4,248	4,247	4,159
2005	5,774	5,789	5,789	5,784	5,737	5,665	5,720	5,797	5,869	5,884	5,915	5,927	5,806
2006	5,940	5,963	5,984	5,991	5,969	5,948	5,953	6,092	6,105	6,118	6,109	6,120	6,024
2007	6,132	6,135	6,156	6,177	6,139	6,096	6,106	6,234	6,252	6,231	6,249	6,224	6,178
2008	6,241	6,245	6,232	6,207	6,124	6,143	6,141	6,285	6,258	6,241	6,221	6,201	6,210
2009	6,193	6,194	6,206	6,218	6,167	6,137	6,148	6,272	6,286	6,311	6,327	6,309	6,231
2010	6,318	6,320	6,340	6,364	6,318	6,288	6,318	6,398	6,409	6,415	6,423	6,389	6,358
2011	6,405	6,410	6,411	6,416	6,391	6,330	6,371	6,465	6,468	6,481	6,465	6,451	6,421
2012	6,452	6,463	6,473	6,474	6,432	6,392	6,390	6,509	6,523	6,552	6,552	6,526	6,478
2013	6,535	6,548	6,551	6,552	6,562	6,497	6,544	6,623	6,638	6,651	6,643	6,630	6,581
2014	6,668	6,684	6,658	6,645	6,580	6,548	6,577	6,639	6,645	6,648	6,649	6,657	6,633
2015	6,676	6,675	6,685	6,678									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	234	153	150	139	153	208	202	224	212	162	139	107	174
2006	269	147	157	125	187	199	195	218	230	171	173	123	183
2007	152	146	145	135	145	165	194	214	216	172	159	129	164
2008	159	142	138	127	133	149	153	194	166	161	143	126	150
2009	145	151	118	118	151	143	159	150	158	139	134	128	141
2010	150	136	127	143	130	138	156	158	146	146	142	131	145
2011	135	143	127	134	127	155	173	178	175	168	143	127	149
2012	132	133	125	134	137	206	238	237	199	144	144	127	163
2013	130	144	119	126	131	146	177	185	197	148	140	121	147
2014	138	141	126	130	142	143	155	161	162	142	128	124	141
2015	127	131	122	129									

Missouri-American Water Company
Jeff City Operation (Monthly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Residential Sales													
2005	56,263	35,953	42,473	30,809	37,781	57,689	48,238	61,401	57,556	39,353	33,055	27,582	528,153
2006	77,425	32,917	42,069	30,488	50,051	52,544	56,159	60,365	66,571	47,102	36,574	39,729	591,994
2007	41,430	32,283	40,183	33,908	38,473	47,207	47,147	58,801	54,808	49,035	41,404	34,105	518,784
2008	40,874	35,203	35,730	37,066	34,880	40,486	39,740	45,947	40,807	37,420	34,693	39,475	462,321
2009	40,332	33,066	38,299	34,997	36,232	40,668	46,273	43,496	44,459	41,148	33,193	35,905	468,068
2010	40,381	32,178	34,430	38,211	33,931	40,534	43,080	44,255	42,713	39,891	35,516	36,398	461,518
2011	40,205	31,933	31,365	33,717	34,449	40,219	46,349	52,429	46,074	42,331	35,195	33,748	488,014
2012	38,195	31,563	33,327	33,654	35,180	54,064	62,208	60,917	48,989	40,204	34,650	33,349	506,201
2013	35,469	32,543	31,073	32,749	33,801	38,173	42,445	42,332	50,717	37,820	35,504	31,441	444,067
2014	36,187	35,225	31,089	31,308	35,006	37,205	44,289	46,506	43,095	36,973	31,715	31,838	440,435
2015	35,000	32,482	30,628	33,123									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG
Residential Customers													
2005	8,877	8,877	8,895	8,883	8,870	8,870	8,881	8,870	8,874	8,860	8,862	8,869	8,874
2006	8,866	8,871	8,886	8,911	8,913	8,951	8,930	8,940	8,938	8,935	8,909	8,910	8,913
2007	8,906	8,891	8,905	8,925	8,917	8,906	8,894	8,869	8,868	8,847	8,834	8,842	8,884
2008	8,866	8,877	8,917	8,914	8,913	8,922	8,925	8,938	8,931	8,931	8,912	8,918	8,914
2009	8,917	8,935	8,950	8,953	8,942	8,952	8,942	8,944	8,954	8,965	8,963	8,951	8,947
2010	8,945	8,961	8,955	8,980	8,972	8,966	8,976	8,964	8,974	8,951	8,917	8,924	8,957
2011	8,925	8,924	8,939	8,940	8,956	9,014	9,022	9,022	9,041	9,110	9,078	9,066	9,003
2012	9,076	9,092	9,123	9,148	9,136	9,137	9,122	9,049	9,052	9,038	9,007	8,999	9,082
2013	9,010	9,015	9,035	9,034	9,052	9,046	9,025	9,034	9,038	9,008	9,003	9,004	9,026
2014	8,999	8,990	8,996	8,986	9,028	9,041	9,034	9,027	9,043	9,029	9,014	8,996	9,015
2015	9,006	9,008	9,017	9,033									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG
Residential Usage/Customers													
2005	204	145	154	116	137	217	175	223	216	143	124	100	163
2006	282	133	153	114	181	196	203	218	248	170	137	144	182
2007	150	130	146	127	139	177	171	214	206	179	156	124	160
2008	149	137	129	139	126	151	144	166	152	135	130	143	142
2009	146	132	138	130	131	151	167	157	166	148	123	129	143
2010	146	128	124	142	122	151	155	159	159	144	133	132	141
2011	145	128	113	126	124	149	166	187	170	150	129	120	142
2012	136	120	118	123	124	197	220	217	180	143	128	120	152
2013	127	129	111	121	120	141	152	151	187	135	113	113	135
2014	130	140	111	116	125	137	158	166	159	132	117	114	134
2015	125	129	110	122									

Missouri-American Water Company
St. Charles Operation (Monthly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	230,041	160,496	176,052	154,769	186,235	346,665	374,575	374,160	368,913	234,017	183,080	116,381	2,905,384
2006	312,582	151,454	178,121	137,553	234,293	310,797	374,062	389,939	376,210	259,888	218,365	136,564	3,079,828
2007	189,613	143,185	165,308	141,877	199,819	280,376	364,471	420,987	336,800	302,043	208,056	143,642	2,896,177
2008	190,712	146,647	146,672	158,965	148,639	199,678	296,281	286,975	234,311	221,975	133,047	172,518	2,336,420
2009	175,487	144,688	144,436	136,094	176,932	205,072	267,633	258,540	243,429	192,928	140,673	147,250	2,293,162
2010	169,883	133,754	147,539	165,342	177,058	229,080	291,102	287,800	273,422	226,917	191,857	161,493	2,455,247
2011	172,197	150,921	147,244	144,053	159,671	230,849	259,988	385,509	337,246	245,187	176,627	149,189	2,558,281
2012	164,045	148,300	151,760	156,631	182,130	331,818	458,262	438,910	253,135	192,067	156,339	144,666	2,778,062
2013	162,733	143,729	133,619	146,692	164,622	195,351	250,752	267,625	302,877	253,832	155,615	146,241	2,323,688
2014	169,765	137,030	139,032	150,481	164,065	201,816	266,196	280,196	225,749	201,527	133,084	153,885	2,222,816
2015	153,858	131,226	137,902	148,456									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	27,454	27,485	27,496	27,520	27,580	27,624	27,672	27,705	27,751	27,783	27,794	27,799	27,639
2006	27,836	27,849	27,905	27,978	28,000	28,032	28,056	28,100	28,158	28,189	28,173	28,172	28,037
2007	28,178	28,200	28,237	28,272	28,288	28,295	28,326	28,328	28,338	28,323	28,325	28,332	28,287
2008	28,329	28,339	28,349	28,331	28,365	28,366	28,383	28,380	28,375	28,388	28,389	28,345	28,362
2009	28,337	28,334	28,343	28,382	28,404	28,409	28,428	28,428	28,412	28,377	28,389	28,385	28,386
2010	28,392	28,399	28,652	28,673	28,703	28,724	28,731	28,721	28,729	28,715	28,694	28,697	28,653
2011	28,690	28,680	28,700	28,745	28,776	28,802	28,820	28,818	28,845	28,820	28,802	28,789	28,775
2012	28,776	28,769	28,812	28,842	28,883	29,369	29,386	28,946	28,947	28,916	28,893	28,900	28,953
2013	28,922	28,927	28,943	29,012	29,063	29,070	29,079	29,086	29,102	29,115	29,070	29,083	29,039
2014	29,105	29,120	29,133	29,184	29,241	29,255	29,279	29,287	29,306	29,312	29,265	29,258	29,230
2015	29,281	29,285	29,307	29,354									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	270	209	207	187	218	418	437	436	443	272	220	135	288
2006	362	194	206	164	270	370	430	448	445	297	258	156	301
2007	217	181	189	167	228	330	415	479	396	344	245	164	281
2008	217	178	167	187	169	235	337	326	325	252	156	196	226
2009	200	182	164	160	201	241	304	293	286	219	165	167	216
2010	193	168	166	192	199	266	327	323	317	255	223	182	235
2011	194	187	165	167	179	267	291	432	390	274	204	161	244
2012	184	178	170	181	203	377	503	489	291	214	180	161	263
2013	182	177	149	169	183	224	278	287	347	281	178	162	219
2014	188	168	154	172	181	230	293	309	257	222	152	170	208
2015	170	160	152	169									

Missouri-American Water Company
Jeff City Operation (Monthly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	5,077	1,387	2,197	1,803	2,582	2,191	2,665	3,545	3,337	2,394	2,137	1,827	31,142
2006	2,371	1,903	1,758	1,944	2,354	2,694	3,566	4,263	3,701	3,228	2,552	2,072	39,406
2007	2,549	2,173	1,924	1,887	2,242	2,468	2,613	3,184	2,564	2,163	2,323	2,009	28,099
2008	2,405	1,886	1,958	1,614	2,135	2,361	2,870	2,473	2,701	2,895	1,909	1,908	27,115
2009	2,318	1,949	2,064	2,058	2,108	2,280	2,725	2,459	2,511	2,273	2,153	1,921	26,819
2010	2,196	1,833	1,953	2,017	1,801	2,255	2,302	2,721	2,683	2,074	2,020	1,993	25,848
2011	1,926	1,706	1,865	1,760	1,948	2,838	3,606	3,753	2,462	1,951	1,848	1,741	27,404
2012	2,116	1,749	1,659	1,942	2,077	184	3,989	3,049	3,002	-10	4,580	1,776	26,111
2013	2,158	1,831	1,960	1,679	1,928	2,288	2,041	2,811	2,138	1,867	1,766	1,909	24,356
2014	1,926	1,911	1,965	1,579									
2015													

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	377	375	378	381	384	382	383	386	386	384	384	381	382
2006	378	394	401	406	417	413	417	419	419	415	413	415	408
2007	420	419	419	421	423	426	428	430	432	430	430	428	426
2008	421	419	424	429	433	436	439	440	439	439	438	439	433
2009	433	434	438	437	439	440	446	448	447	446	445	441	441
2010	438	437	440	440	445	445	448	448	449	445	443	437	443
2011	441	436	441	445	447	447	447	447	444	442	442	442	443
2012	441	439	442	445	447	449	449	450	450	445	443	440	445
2013	438	438	443	448	451	449	450	448	446	446	444	444	445
2014	440	443	446	452									
2015													

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	29	29	29	30	31	30	31	31	30	31	30	31	366
2006	31	28	31	30	31	31	31	31	30	31	30	31	365
2007	434	132	187	158	217	191	224	296	288	201	186	155	223
2008	202	172	141	160	187	217	276	328	294	251	206	161	218
2009	196	179	148	149	171	193	197	239	198	162	180	151	181
2010	184	161	149	184	159	181	211	181	205	213	145	140	172
2011	173	160	152	157	155	173	197	177	187	164	161	141	167
2012	162	150	143	163	155	169	166	196	199	150	152	147	160
2013	143	135	136	132	141	212	260	271	185	142	139	127	170
2014	155	142	121	145	150	14	287	219	222	-1	345	130	161
2015	159	149	143	125	138	168	146	202	160	135	133	139	150
2016	141	154	142	116									

Missouri-American Water Company
St. Joseph Operation (Monthly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	184,589	131,605	146,487	112,790	122,767	174,847	146,274	173,276	182,826	136,427	115,942	94,960	1,723,790
2006	240,283	119,616	141,356	105,174	173,201	194,518	160,634	165,939	178,371	149,440	142,191	114,227	1,884,950
2007	155,217	114,025	131,720	123,388	134,790	163,569	189,885	189,480	149,373	145,169	125,642	127,214	1,749,472
2008	155,175	133,662	123,605	116,580	122,934	144,827	148,242	159,366	137,493	127,702	116,311	133,086	1,618,783
2009	145,882	116,794	117,734	107,771	135,733	147,449	157,018	140,747	138,436	129,928	113,070	122,540	1,573,102
2010	146,320	110,582	116,138	127,013	114,269	139,725	144,601	154,368	144,572	128,955	117,723	117,056	1,561,322
2011	145,038	115,566	104,954	114,886	124,657	146,571	146,007	154,486	140,014	135,862	117,133	112,450	1,557,624
2012	124,845	114,768	111,904	123,974	123,644	164,964	175,686	179,796	152,999	138,100	117,677	120,103	1,648,459
2013	126,489	118,497	107,806	113,597	216,793	28,253	169,165	160,625	157,193	118,828	118,857	106,933	1,543,036
2014	135,633	124,688	116,600	123,814	119,149	125,880	134,089	136,168	127,998	118,184	97,471	113,689	1,473,364
2015	125,718	112,464	106,586	113,149									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avq
2005	28,146	28,175	28,199	28,208	28,241	28,311	28,312	28,202	28,204	28,178	28,202	28,168	28,212
2006	28,187	28,274	28,378	28,456	28,503	28,488	28,525	28,574	28,616	28,624	28,630	28,616	28,489
2007	28,631	28,636	28,630	28,643	28,647	28,633	28,661	28,659	28,675	28,662	28,647	28,583	28,646
2008	28,635	28,596	28,600	28,595	28,586	28,569	28,602	28,620	28,614	28,604	28,573	28,542	28,595
2009	28,474	28,467	28,526	28,555	28,545	28,575	28,609	28,644	28,628	28,535	28,504	28,460	28,544
2010	28,467	28,433	28,420	28,460	28,481	28,468	28,482	28,477	28,495	28,449	28,410	28,389	28,453
2011	28,419	28,461	28,508	28,501	28,533	28,585	28,548	28,512	28,586	28,512	28,495	28,470	28,511
2012	28,450	28,477	28,510	28,592	28,618	28,644	28,590	28,665	28,594	28,540	28,437	28,470	28,549
2013	28,466	28,499	28,556	28,594	28,627	28,606	28,821	28,770	28,795	28,780	28,723	28,719	28,696
2014	28,717	28,744	28,689	28,664	28,641	28,643	28,617	28,567	28,564	28,546	28,461	28,466	28,610
2015	28,437	28,435	28,447	28,507									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avq
2005	212	167	168	133	140	206	167	198	216	156	137	109	167
2006	275	151	161	123	196	228	182	187	208	168	166	129	181
2007	175	142	148	144	152	190	214	213	173	163	146	144	167
2008	161	139	139	136	139	169	167	180	160	144	136	150	155
2009	165	147	133	126	153	172	177	159	161	147	132	139	151
2010	166	139	132	149	129	164	164	175	169	146	138	133	150
2011	165	145	119	134	141	165	165	175	171	154	137	127	150
2012	142	139	127	145	139	192	198	202	178	156	138	136	158
2013	143	148	122	132	243	33	189	180	182	133	138	120	147
2014	152	155	131	144	134	146	151	154	149	134	114	129	141
2015	143	141	121	132									

Missouri-American Water Company
Joplin Operation (Monthly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	142,987	97,962	98,821	88,744	95,090	147,160	150,352	161,159	178,024	131,792	-25,122	68,927	1,335,896
2006	195,904	88,133	109,239	85,945	146,505	146,981	155,710	186,176	183,658	134,354	119,305	90,653	1,644,563
2007	117,695	79,670	97,910	86,006	102,583	113,335	134,767	171,228	159,274	121,366	100,455	100,339	1,384,628
2008	101,469	101,840	74,935	89,879	86,073	108,203	120,684	146,930	117,065	111,928	81,176	101,739	1,241,931
2009	103,915	85,460	82,445	79,294	97,659	117,333	154,457	140,537	120,495	96,798	86,707	93,287	1,258,387
2010	103,104	84,417	85,930	95,444	89,499	120,938	140,126	144,432	145,246	105,600	95,418	87,787	1,297,941
2011	98,222	92,264	85,230	84,432	91,725	106,799	155,928	164,991	139,933	104,810	86,088	77,395	1,289,817
2012	84,407	70,227	74,618	80,583	92,662	138,774	174,350	193,480	130,609	92,606	86,076	77,554	1,295,947
2013	85,374	74,755	72,400	79,376	85,659	97,044	139,015	127,061	126,037	112,037	78,803	78,447	1,156,009
2014	92,038	85,451	82,642	80,437	89,731	100,302	129,016	133,663	128,844	103,567	75,749	83,661	1,185,102
2015	82,602	72,380	69,865	82,081									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	19,824	19,890	19,943	19,964	19,993	19,973	19,968	19,947	19,942	19,954	19,980	19,960	19,945
2006	19,935	20,024	20,111	20,181	20,208	20,296	20,315	20,370	20,411	20,416	20,376	20,365	20,251
2007	20,388	20,387	20,427	20,426	20,450	20,411	20,423	20,423	20,467	20,472	20,508	20,493	20,440
2008	20,542	20,559	20,581	20,581	20,604	20,656	20,662	20,737	20,719	20,792	20,784	20,795	20,666
2009	20,800	20,866	20,890	20,882	20,844	20,860	20,856	20,922	20,893	20,887	20,886	20,853	20,870
2010	20,806	20,873	20,933	20,949	20,965	20,965	20,940	20,999	20,940	20,939	20,939	20,939	20,935
2011	21,297	21,337	21,307	21,302	21,309	18,243	18,336	18,458	18,572	18,685	18,756	18,857	19,705
2012	18,955	19,069	19,179	19,314	19,418	19,594	19,729	19,862	19,874	19,935	20,001	20,014	19,579
2013	20,056	20,117	20,171	20,208	20,415	20,389	20,428	20,424	20,456	20,465	20,452	20,438	20,336
2014	20,460	20,482	20,441	20,387	20,538	20,606	20,646	20,679	20,735	20,736	20,679	20,670	20,588
2015	20,655	20,681	20,762	20,768									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	233	176	160	148	154	246	243	261	298	213	-42	111	184
2006	317	157	175	142	234	241	247	298	300	212	195	144	222
2007	186	140	155	140	162	185	213	270	259	191	163	158	186
2008	159	171	118	146	135	175	188	229	188	174	130	158	164
2009	161	146	127	127	146	187	239	217	192	149	138	144	165
2010	160	144	132	152	138	192	215	222	231	163	152	135	170
2011	149	154	132	139	139	195	217	288	251	181	157	132	179
2012	144	127	126	139	154	236	285	314	219	150	143	125	181
2013	137	133	116	131	135	159	220	201	205	177	128	124	156
2014	145	149	130	132	141	162	202	209	207	161	122	131	158
2015	129	125	109	132									

Missouri-American Water Company
SIL - Qrtly Operation (Quarterly Customers)
History of Water Sales
(Thousand Gallons)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	2,853,810	2,178,284	2,624,387	1,821,257	2,091,024	2,748,445	2,942,532	2,937,048	4,074,239	3,507,264	2,578,831	1,706,112	32,063,233
2006	2,978,884	2,023,011	2,357,681	1,951,426	2,563,262	2,567,018	2,902,726	3,221,536	4,187,027	3,250,519	3,054,066	2,014,118	33,071,276
2007	2,137,593	1,974,879	2,105,191	1,843,610	2,149,435	2,290,277	2,843,989	3,725,609	3,399,750	3,995,518	2,762,221	2,287,108	31,515,189
2008	2,216,567	2,065,282	1,927,309	1,948,069	1,846,368	1,968,154	2,393,877	2,962,856	2,755,493	2,800,329	1,713,325	2,584,516	27,219,145
2009	1,797,814	1,952,015	2,057,668	1,638,390	2,188,497	2,097,655	2,414,025	2,770,977	2,865,472	2,758,569	1,930,238	2,014,460	26,485,800
2010	1,668,626	1,989,392	2,121,663	1,787,799	1,903,346	2,163,104	2,428,677	3,008,529	3,055,993	2,764,641	2,357,344	2,051,759	27,300,873
2011	2,014,823	1,951,981	2,071,960	1,633,799	1,865,654	2,036,517	2,201,673	3,226,194	3,059,579	3,198,886	2,508,115	2,070,138	27,839,318
2012	1,929,443	1,868,553	1,875,964	1,603,298	1,909,966	2,433,132	3,159,123	4,490,507	3,513,212	3,441,147	1,928,561	1,969,315	30,122,221
2013	1,958,039	1,724,315	1,659,834	1,846,109	1,742,534	1,119,991	2,922,075	2,721,226	3,226,572	3,185,562	2,081,808	2,068,658	26,256,724
2014	1,956,329	1,796,201	1,838,098	1,844,397	1,777,708	1,963,344	2,192,620	2,728,421	2,894,114	2,752,430	1,777,637	2,024,141	25,545,441
2015	1,721,934	1,596,213	1,870,589	1,598,535									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	135,363	107,124	125,501	98,338	105,685	120,220	99,600	104,368	117,317	105,656	105,028	61,186	107,116
2006	138,995	101,171	112,061	104,526	131,798	118,020	105,010	106,004	124,111	108,213	115,203	97,680	113,566
2007	110,958	96,984	113,234	106,356	114,076	110,821	114,911	119,744	102,675	127,398	99,074	103,989	110,018
2008	112,943	100,958	108,885	118,851	101,939	112,909	120,014	105,195	115,291	120,470	83,226	113,268	109,496
2009	102,944	97,730	113,982	110,025	106,694	115,241	118,316	106,613	112,762	121,041	85,288	111,992	108,802
2010	93,184	102,621	117,835	111,214	107,081	115,951	112,291	113,623	112,716	115,257	100,339	107,349	109,122
2011	102,021	103,559	121,437	105,929	108,061	113,347	106,051	117,974	107,358	113,788	98,412	107,524	108,788
2012	104,587	102,733	115,099	105,359	106,901	111,181	112,406	115,223	101,493	126,049	86,936	104,389	107,696
2013	112,865	93,554	104,717	119,775	104,550	100,488	153,618	112,171	109,347	125,875	89,293	106,762	111,085
2014	111,678	92,783	111,971	118,969	100,681	108,878	114,378	103,636	112,488	122,294	81,928	113,828	107,793
2015	106,114	88,220	118,619	107,954									

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	223	213	227	207	222	252	324	311	386	370	273	302	273
2006	226	209	228	208	218	240	303	336	375	335	294	223	266
2007	203	213	202	193	211	228	271	344	368	350	309	238	261
2008	207	216	192	183	203	194	219	312	265	259	228	247	227
2009	184	209	196	166	230	201	224	288	282	254	243	195	222
2010	189	203	195	179	199	206	237	293	301	268	261	207	228
2011	209	197	185	172	194	198	228	303	316	314	283	208	234
2012	195	190	177	170	200	242	308	431	384	304	246	204	255
2013	183	193	172	172	187	123	209	268	328	282	259	210	216
2014	185	202	178	173	198	199	210	291	286	251	241	192	216
2015	171	189	171	165									

Missouri-American Water Company
 STL Metro

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg
2005	231	212	223	202	221	283	348	337	397	350	261	250	276
2006	249	206	224	199	227	265	330	359	387	327	287	208	272
2007	206	206	199	188	215	249	300	370	374	348	295	222	264
2008	209	208	187	183	196	203	241	315	267	258	210	236	228
2009	188	203	189	165	224	209	239	288	283	247	224	189	221
2010	190	195	189	182	199	218	255	299	304	265	252	201	229
2011	205	195	171	171	190	212	241	328	332	305	265	199	235
2012	192	187	175	172	201	270	348	442	363	287	229	195	255
2013	183	189	167	171	186	145	220	274	331	281	239	199	215
2014	186	194	173	173	194	206	227	295	279	245	217	188	215
2015	171	182	167	166									

1990-2015		Trends	
(Feb,Mar,Apr) Base	Usage	2006-2015	
38428	212		
38793	209		
39158	197	202	
39524	193	198	
39889	186	195	
40254	189	191	
40619	182	188	
40985	178	184	
41350	176	181	
41715	180	177	
42080	172	174	
		170	
			2006-2015
			-8.99931554
			-1.73%
			-1276

Change in Time
 Slope of Trend
 Annual Decline (gal/cust)

Residential Billed Usage

2015	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
St. Louis County	1,752,093	1,629,097	1,902,244	1,628,277	1,610,723	2,069,306	2,060,546	2,515,227	3,187,268				18,354,780
St. Joseph	125,606	112,404	106,585	113,134	109,142	119,581	128,283	135,782	135,268				1,085,785
Platte Co (Parkville)	26,530	23,555	21,412	25,443	28,600	24,097	35,094	56,051	72,821				313,601
Warrensburg	26,366	24,427	25,252	25,817	25,156	26,368	28,591	31,559	37,940				251,475
Brunswick	982	830	791	888	898	847	960	1,050	846				8,092
St. Charles	155,479	133,133	139,991	150,030	165,744	179,727	184,843	229,274	269,233				1,607,454
Mexico	16,996	14,177	14,056	15,002	14,925	14,669	16,294	16,181	23,550				145,850
Joplin	82,777	72,573	70,057	82,428	82,029	87,944	111,825	130,105	132,354				852,094
Jefferson City	34,957	32,441	30,619	33,115	33,077	33,611	36,683	45,394	42,753				322,650
Spring Valley/Lake Manor	393	407	312	386	420	371	451	492	498				3,731
Ozark Mountain / LTA	1,118	1,117	904	1,163	1,236	1,197	1,718	1,819	1,197				11,468
Stonebridge/Maplewood/Riverside	4,030	3,574	3,574	3,865	3,954	4,809	6,933	8,048	6,921				45,709
Saddlebrooke	420	303	296	293	660	541	1,338	1,587	1,436				6,873
Tri-States	6,910	6,189	6,297	7,196	7,535	7,844	10,762	9,556	8,322				70,610
Emerald Pointe	626	464	564	1,016	1,142	1,718	2,397	1,974	1,865				11,766
Ozark Meadows WW	65	77	50	48	62	87	79	68	89				625
Maplewood WW	1,380	1,285	1,422	1,286	1,226	1,537	1,467	1,652	1,422				12,676
Stonebridge WW	1,387	1,154	1,191	1,332	1,492	2,028	3,751	4,553	3,877				20,765
Saddlebrooke WW	411	306	295	351	651	537	1,330	1,567	1,324				6,772
Arnold WW							37	4,311	4,164				8,512
Total	2,238,525	2,057,512	2,325,911	2,091,070	2,088,670	2,576,819	2,633,383	3,196,250	3,933,148	-	-	-	23,141,287

2016	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
St. Louis County	1,966,085	1,853,625	1,868,803	1,885,873	1,809,079	2,005,122	2,233,719	2,770,453	2,936,358	2,792,949	1,806,726	2,055,332	25,984,123

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
St. Joseph	135,592	124,645	116,575	123,654	119,229	125,842	134,050	136,128	127,943	118,143	97,434	113,588	1,472,822
Piatte Co (Parkville)	25,980	25,056	21,642	23,027	28,978	36,921	39,822	54,479	46,435	32,991	28,116	21,687	385,134
Warrensburg	28,464	26,273	26,002	25,947	29,006	28,039	31,554	33,032	32,118	29,187	25,549	25,588	340,757
Brunswick	806	1,068	789	783	769	1,001	885	1,005	926	858	942	820	10,653
St. Charles	171,908	138,844	140,987	152,141	165,986	204,071	268,231	282,991	227,882	203,389	134,845	155,789	2,247,063
Mexico	11,409	18,291	13,985	14,983	14,440	17,072	16,758	17,430	15,779	15,520	12,828	14,917	183,414
Joplin	92,151	85,654	82,879	80,705	89,992	100,558	129,369	133,955	129,156	103,822	75,987	83,859	1,188,087
Jefferson City	36,182	35,211	31,075	31,296	34,985	37,194	44,276	46,493	43,077	36,966	31,706	31,830	440,290
Spring Valley/Lake Manor	398	389	371	273	338	406	451	549	472	427	432	403	4,907
Ozark Mountain / LTA	1,380	1,457	1,040	1,133	1,371	1,599	1,934	1,934	1,687	1,330	1,212	1,111	16,229
Stonebridge/Maplewood/Riverside	3,853	3,240	2,799	4,362	4,455	5,927	5,638	9,072	8,740	6,126	5,368	3,672	63,251
Saddlebrooke	399	381	(15)	1,308	634	20	1,320	2,110	2,403	1,304	872	322	11,057
Tri-States	7,972	6,376	6,094	6,878	7,261	9,540	9,691	10,653	8,041	7,696	6,202	6,850	93,255
Emerald Pointe				667	1,692	1,646	2,969	2,419	1,803	1,479	804	785	14,264
Ozark Meadows WW	1,484	1,219	1,228	1,197	1,308	1,640	1,516	1,743	1,441	1,196	1,376	1,272	16,619
Maplewood WW	885	821	380	2,035	1,457	2,911	2,652	4,938	5,033	3,296	2,487	1,353	28,246
Stonebridge WW	399	381	(15)	1,308	633	6	1,296	2,061	2,362	1,254	835	321	10,842
Saddlebrooke WW	2,485,348	2,322,930	2,314,621	2,357,569	2,311,218	2,579,285	2,925,795	3,511,444	3,591,656	3,357,981	2,233,782	2,519,558	32,511,186

2013

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
St. Louis County	1,989,688	1,756,212	1,693,731	1,877,109	1,802,311	1,163,028	3,002,132	2,776,575	3,287,414	3,216,450	2,123,377	2,101,633	26,789,661
St. Joseph	124,699	118,255	107,452	109,549	247,069	28,306	172,451	160,724	157,529	118,799	118,841	107,127	1,570,800
Piatte Co (Parkville)	24,953	25,266	21,306	21,841	22,600	35,241	49,386	57,665	62,192	40,036	31,248	23,078	414,813
Warrensburg	26,146	26,316	23,872	24,407	26,856	28,494	35,910	38,046	39,213	30,595	27,778	24,860	352,493

	938	1,001	832	931	886	1,080	1,054	846	960	1,492	11,921
Brunswick	164,962	145,069	136,127	148,052	229,540	270,558	306,313	253,821	160,182	148,170	2,302,268
St. Charles	15,659	15,097	14,179	14,802	17,963	18,400	21,288	16,399	17,820	14,676	213,280
Mexico	90,872	73,871	70,427	79,323	86,142	126,973	126,252	112,368	79,004	78,314	1,162,175
Joplin	35,668	32,360	31,014	32,709	33,933	42,320	50,755	37,842	35,503	31,456	444,755
Jefferson City	281	270	175	262	269	504	474	510	476	359	4,654
Spring Valley/Lake Manor	929	891	577	868	889	1,817	1,720	921	2,020	1,121	15,417
Ozark Mountain / LTA	3,620	3,474	2,251	3,381	3,464	628	(2,694)	874	27,367	5,024	64,513
Stonebridge/Maplewood/Riverside	633	607	393	591	2,218	3,168	9,770	8,060	7,273	7,855	32,958
Saddlebrooke											4,557
Tri-States	1,227	886	797	807	1,607	1,420	157	4	4,197	1,444	17,713
Cedar Hill WW	1,452	1,449	1,459	1,437	9,988	(3,369)	(5,009)	(721)	21,739	1,711	31,150
Maplewood WW	1,079	1,580	1,608	1,192	2,223	3,026	(94)	(5,191)	9,360	360	12,176
Stonebridge WW	330	335	336	310	825	3,499,535	4,056,282	3,826,473	2,676,644	2,549,051	33,459,023
Saddlebrooke WW	2,483,136	2,202,939	2,106,536	2,317,571	1,589,838	3,725,619	3,499,535	3,826,473	2,676,644	2,549,051	
Total											

	2012	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
St. Louis County		1,965,402	1,900,039	1,913,499	1,637,810	1,941,595	2,479,224	3,212,479	4,542,530	3,564,200	3,475,861	1,967,649	2,002,088	30,602,376
St. Joseph		124,841	114,767	111,903	123,974	123,634	164,963	175,686	179,799	152,968	138,100	119,854	120,071	1,650,560
Platte Co (Parkville)		25,725	22,745	22,051	26,503	31,850	58,430	72,209	74,632	64,688	46,139	34,136	24,877	503,985
Warrensburg		26,383	24,849	25,044	26,081	27,234	39,558	47,192	47,810	39,023	29,178	28,388	25,689	386,429
Brunswick		1,037	1,053	864	845	859	1,270	1,036	971	1,094	875	987	1,021	11,912
St. Charles		165,970	150,006	153,652	158,391	184,078	334,656	461,868	442,665	255,526	194,001	158,187	146,407	2,805,407
Missouri		17,351	14,998	13,829	14,292	15,362	20,282	21,287	20,467	19,805	15,477	15,242	15,621	204,013

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Joplin	84,686	70,486	74,929	81,055	99,047	139,309	174,870	194,182	131,128	94,336	92,367	80,583	1,310,978
Jefferson City	38,456	31,793	33,540	33,908	35,399	54,427	62,591	61,262	49,153	40,438	34,894	33,648	509,509
Spring Valley/Lake Manor	204	227	249	291	388	321	944	681	412	619	312	279	4,925
Ozark Mountain / LTA	676	750	823	961	1,282	1,062	3,121	2,254	1,364	2,046	1,030	921	16,289
Stonebridge/Maplewood/Riverside	2,634	2,922	3,208	3,745	4,997	4,138	12,163	8,783	5,316	7,974	4,015	3,590	63,485
Saddlebrooke	460	511	561	655	874	723	2,126	1,535	929	1,394	702	628	11,098
Ozark Meadows WW	47	47	47	63	63	39	1,361	1,538	1,137	1,057	903	884	306
Cedar Hill WW	887	680	788	977	873	864	1,553	1,440	1,431	1,445	1,450	1,448	17,675
Maplewood WW	1,516	1,516	1,523	1,438	1,456	1,459	1,046	1,047	22	2,127	1,092	1,104	10,526
Stonebridge WW	599	360	416	715	983	1,015	1,046	1,047	322	314	325	324	1,285
Saddlebrooke WW	2,456,875	2,337,748	2,356,925	2,111,703	2,463,974	3,301,740	4,251,531	5,581,597	4,288,518	4,051,380	2,461,533	2,459,182	38,122,707

2011

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
St. Louis County	2,045,418	1,978,503	2,096,431	1,653,695	1,893,314	2,069,241	2,236,823	3,260,122	3,100,996	3,231,278	2,535,698	2,097,343	28,198,862
St. Joseph	145,038	115,566	104,954	114,886	124,657	146,571	146,007	154,486	140,014	135,862	117,133	112,450	1,557,624
Platte Co (Parkville)	27,787	23,130	21,069	25,678	26,593	35,936	50,273	57,833	51,670	51,422	39,627	23,871	434,889
Warrensburg	26,838	25,690	25,209	25,815	25,219	29,489	34,250	35,763	33,994	33,683	27,790	25,443	349,183
Brunswick	913	1,160	754	1,103	922	964	1,226	972	1,051	1,159	860	1,001	12,085
St. Charles	174,393	152,354	149,197	146,070	161,472	233,104	262,290	388,230	339,929	247,261	178,647	151,182	2,584,129
Mexico	18,840	15,088	14,698	16,916	15,276	11,131	18,103	17,724	19,574	16,676	15,311	15,917	195,254
Joplin	98,222	92,264	85,230	84,432	91,725	106,799	155,928	164,991	139,933	104,810	88,088	77,395	1,289,817
Jefferson City	40,205	31,933	31,365	33,717	34,449	40,219	46,349	52,429	46,074	42,331	35,195	33,748	468,014
Spring Valley/Lake Manor								1,094	926	230	483	359	3,092
Ozark Mountain / LTA								3,617	3,064	759	1,597	1,188	10,225
Stonebridge/Maplewood/Riverside								14,096	11,941	2,958	6,225	4,631	39,852
Ozark Meadows WW							15	30	42	42	47	47	223
Cedar Hill WW	777	679	967	687	780	952	1,048	1,303	1,141	819	818	616	10,587
Maplewood WW							1,449	1,559	1,538	1,539	1,515	1,529	9,129
Stonebridge WW									976	447	514	468	2,406
Total	2,578,431	2,436,367	2,529,874	2,102,999	2,374,407	2,674,406	2,953,761	4,154,249	3,892,864	3,871,276	3,049,548	2,547,189	35,165,370

2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
St. Louis County	1,682,742	2,002,529	2,134,509	1,805,210	1,927,805	2,191,374	2,462,917	3,046,619	3,100,005	2,808,317	2,399,896	2,047,196	27,609,119
St. Joseph	146,319	110,582	116,139	127,013	114,269	139,725	144,601	154,368	144,572	128,955	117,723	117,056	1,561,322
Platte Co (Parkville)	33,020	22,296	22,811	24,593	27,456	31,907	47,061	50,164	55,129	34,635	32,381	24,730	406,183
Warrensburg	29,358	24,142	24,949	27,329	25,410	25,994	30,538	31,403	34,717	29,040	27,456	25,945	336,281
Brunswick	1,346	1,454	962	1,209	1,008	1,017	1,298	1,015	1,250	978	875	1,187	13,599
St. Charles	172,202	135,702	149,603	167,400	179,166	231,360	293,827	290,259	275,933	229,190	194,010	163,414	2,482,066
Mexico	19,131	15,522	14,817	17,771	15,714	16,880	19,120	17,165	17,930	16,184	15,676	14,231	200,141
Joplin	103,104	84,417	85,930	95,444	89,499	120,938	140,126	144,432	145,246	105,600	95,418	87,787	1,297,941
Jefferson City	40,380	32,178	34,430	38,211	33,931	40,534	43,080	44,255	42,713	39,891	35,516	36,398	461,517
Cedar Hill WW	805	830	899	930	904	1,129	1,112	1,115	1,160	1,002	890	739	11,515
Total	2,228,407	2,429,652	2,585,049	2,305,110	2,415,162	2,800,858	3,183,680	3,780,795	3,818,655	3,393,792	2,919,841	2,518,683	34,379,684

2009

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
St. Louis County	1,804,994	1,958,690	2,069,646	1,649,819	2,200,924	2,110,790	2,426,266	2,781,485	2,872,047	2,766,176	1,939,249	2,023,314	26,603,400
St. Joseph	145,882	116,794	117,734	107,771	135,733	147,449	157,018	140,747	138,436	129,928	113,070	122,540	1,573,102
Platte Co (Parkville)	30,001	24,341	23,593	28,531	28,531	36,321	44,283	44,843	38,899	32,657	26,126	23,982	376,366
Warrensburg	27,872	26,193	22,668	21,933	28,930	26,252	30,312	29,090	29,870	27,097	25,345	24,985	320,547

St. Louis County	2,310,975	2,168,791	2,049,552	1,988,738	2,228,192	2,328,003	3,146,072	3,146,578	3,409,551	3,304,619	2,881,801	2,036,705	30,999,577
St. Joseph	133,915	122,736	126,590	120,950	128,543	142,076	153,209	155,311	154,840	127,780	140,244	114,744	1,620,938
Platte Co (Parkville)	31,232	28,471	28,495	28,576	34,672	38,505	48,571	56,709	46,651	34,170	33,265	29,552	438,869
Warrensburg	27,482	24,502	24,295	24,845	28,031	36,615	21,589	32,337	32,753	29,398	26,769	25,985	334,601
Brunswick	1,479	1,665	1,308	1,347	1,331	1,500	1,379	1,586	1,727	1,237	1,536	1,445	17,540
St. Charles	166,255	149,173	147,890	156,328	227,848	249,076	283,949	329,215	285,821	206,978	168,120	169,567	2,540,220
Mexico	19,780	18,520	16,909	18,851	17,962	27,613	13,555	22,118	43,309	(4,629)	19,824	25,530	239,342
Joplin	105,300	94,413	89,491	93,437	113,310	120,004	143,766	169,410	147,736	109,448	94,075	90,435	1,370,825
Jefferson City	45,129	40,705	36,233	36,696	38,544	45,503	50,165	51,729	53,989	49,650	50,654	51,272	550,269
Total	2,841,547	2,648,976	2,520,763	2,469,768	2,818,433	2,988,895	3,862,255	3,964,993	4,176,377	3,858,651	3,416,288	2,545,235	38,112,181

Residential Customer Counts
2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	313,341	313,353	313,580	313,534	313,491	313,625	313,565	313,859	313,932			
St. Joseph	28,386	28,383	28,418	28,493	28,476	28,503	28,483	28,416	28,389			
Platte Co (Parkville)	5,398	5,410	5,431	5,443	5,438	5,450	5,472	5,476	5,484			
Warrensburg	6,666	6,667	6,681	6,677	6,584	6,544	6,577	6,637	6,644			
Brunswick	329	328	332	337	335	336	337	339	341			
St. Charles	29,714	29,724	29,750	29,805	29,819	29,852	29,856	29,865	29,884			
Mexico	4,272	4,272	4,293	4,297	4,289	4,305	4,297	4,305	4,294			
Joplin	20,611	20,646	20,749	20,764	20,746	20,779	20,782	20,781	20,859			
Jefferson City	8,987	8,992	9,008	9,029	9,031	9,031	9,031	9,031	9,033			
Rankin Acres	86	86	86	86	86	86	86	86	86			
Spring Valley/Lake Manor	133	130	133	130	132	133	132	132	130			
Ozark Mountain / LTA	488	486	487	495	498	501	501	502	501			
Whitebranch	134	134	135	136	137	137	136	135	135			
Stonebridge/Maplewood/Riverside	1,278	1,279	1,282	1,288	1,301	1,303	1,306	1,305	1,305			
Saddlebrooke	88	88	89	91	93	93	93	93	91			
Tri-States	2,910	2,894	2,888	2,903	2,952	2,958	2,972	2,980	2,986			
Emerald Pointe	348	349	347	348	353	358	356	358	361			
Anna Meadows	77	77	79	79	85	85	87	91	97			
Platte Co WW (Parkville)	101	99	98	99	98	99	100	100	99			
Cedar Hill WW	672	670	676	683	685	684	686	685	687			
Warren County WW	408	411	414	420	419	422	421	419	420			
Ozark Meadows WW	26	26	26	26	25	26	25	25	25			
Maplewood WW	364	362	362	362	363	365	365	363	364			
Jefferson City WW	1,349	1,351	1,352	1,353	1,351	1,357	1,358	1,357	1,357			
Stonebridge WW	622	626	630	635	639	639	641	643	641			
Meramec WW	608	605	602	605	607	607	606	607	609			
Saddlebrooke WW	87	87	87	90	90	90	90	90	88			
Emerald Pointe WW	348	349	347	348	353	358	356	358	361			
Anna Meadows WW	77	77	79	79	85	85	87	91	97			
Arnold WW							6,485	6,382	6,390			
Total	427,908	427,961	428,441	428,635	428,561	428,811	435,289	435,511	435,690	-	-	-

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014												
St. Louis County	314,167	314,148	314,225	313,710	313,658	313,555	313,505	313,594	313,819	313,671	313,472	313,418

St. Joseph	28,727	28,747	28,684	28,638	28,581	28,574	28,556	28,510	28,466	28,464	28,381	28,395
Platte Co (Parkville)	5,271	5,282	5,295	5,309	5,315	5,335	5,348	5,365	5,380	5,371	5,379	5,394
Warrensburg	6,667	6,683	6,653	6,640	6,573	6,538	6,567	6,618	6,595	6,621	6,631	6,644
Brunswick	325	327	325	326	335	338	343	340	343	341	335	332
St. Charles	29,541	29,559	29,576	29,616	29,657	29,679	29,714	29,731	29,742	29,741	29,694	29,686
Mexico	4,254	4,259	4,277	4,277	4,280	4,287	4,278	4,293	4,270	4,274	4,269	4,275
Joplin	20,485	20,502	20,438	20,376	20,458	20,535	20,587	20,631	20,647	20,657	20,613	20,608
Jefferson City	8,998	8,991	8,992	8,976	9,003	9,022	9,015	9,009	9,014	9,008	8,994	8,981
Rankin Acres	87	85	85	86	86	86	86	85	85	86	86	86
Spring Valley/Lake Manor	133	131	132	131	131	134	135	135	135	135	136	132
Ozark Mountain / LTA	484	485	485	493	497	497	499	499	499	498	494	489
Whitebranch	130	130	134	137	138	139	140	140	138	137	136	134
Stonebridge/Maplewood/Riverside	1,271	1,272	1,272	1,274	1,276	1,280	1,284	1,285	1,286	1,284	1,276	1,274
Saddlebrooke	84	84	86	88	89	89	91	89	90	90	87	88
Tri-States	2,837	2,823	2,873	2,916	2,941	2,974	3,014	2,981	2,959	2,960	2,946	2,923
Emerald Pointe	-	-	-	345	350	348	351	357	356	349	351	349
Platte Co WW (Parkville)	101	101	101	101	101	101	101	101	101	101	101	101
Cedar Hill WW	658	660	663	664	661	669	670	668	674	672	668	672
Warren County WW	407	408	414	416	416	413	415	412	410	413	411	411
Ozark Meadows WW	23	22	22	22	22	23	23	23	23	24	25	25
Maplewood WW	364	363	362	361	360	361	362	364	364	361	360	363
Jefferson City WW	1,346	1,355	1,354	1,356	1,351	1,352	1,348	1,352	1,350	1,350	1,347	1,348
Stonebridge WW	619	621	623	627	627	627	630	627	631	630	625	620

Meramec WW	613	614	614	611	609	610	608	608	609	607	608	608
Saddlebrooke WW	84	84	86	88	89	89	91	91	90	90	87	87
Emerald Pointe WW	-	-	-	343	349	347	350	356	355	348	350	348
Total	427,676	427,736	427,771	427,927	427,953	428,002	428,111	428,264	428,431	428,283	427,862	427,791

2013

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	313,410	313,578	313,588	313,565	316,697	314,438	317,746	314,316	314,230	314,171	314,150	314,157
St. Joseph	28,466	28,499	28,556	28,594	28,629	28,836	29,376	28,797	28,829	28,800	28,737	28,723
Platte Co (Parkville)	5,191	5,203	5,214	5,221	5,218	5,278	5,366	5,280	5,285	5,274	5,271	5,270
Warrensburg	6,535	6,548	6,551	6,552	6,346	6,500	6,866	6,599	6,626	6,646	6,641	6,626
Brunswick	319	318	320	321	326	332	334	333	337	332	328	327
St. Charles	29,363	29,366	29,385	29,457	26,084	29,520	29,815	29,545	29,568	29,578	29,516	29,529
Mexico	4,268	4,272	4,269	4,270	4,281	4,309	4,435	4,312	4,295	4,305	4,275	4,274
Joplin	20,056	20,117	20,171	20,208	20,218	20,379	20,968	20,388	20,455	20,469	20,458	20,436
Jefferson City	9,010	9,015	9,035	9,034	8,983	9,048	9,218	9,030	9,031	9,005	8,999	9,005
Rankin Acres	87	89	87	86	87	87	87	87	87	87	87	87
Spring Valley/Lake Manor	134	131	138	136	131	133	134	134	132	133	133	132
Ozark Mountain / LTA	492	486	489	491	494	498	501	498	500	495	490	485
Whitebranch	140	140	137	141	-	137	141	137	137	135	132	133
Stonebridge/Maplewood/Riverside	1,159	1,172	1,177	1,198	1,259	1,265	1,279	1,260	1,261	1,260	1,255	1,272
Saddlebrooke	84	84	86	83	86	87	87	87	87	87	86	86
Tri-States	-	-	-	-	-	-	-	-	2,908	2,919	2,915	2,890
Platte Co WW (Parkville)	102	102	102	103	98	99	100	99	100	100	101	101
Cedar Hill WW	657	656	656	659	660	664	666	661	659	657	654	653
Warren County WW	417	415	417	421	414	417	426	418	418	417	411	409
Ozark Meadows WW	24	25	24	24	25	24	24	24	24	24	24	23
Maplewood WW	375	367	378	377	370	370	372	370	372	372	371	364
Jefferson City WW	1,584	1,586	1,589	1,367	1,354	1,357	1,367	1,352	1,350	1,344	1,343	1,342
Stonebridge WW	518	533	530	541	605	608	615	601	598	598	594	618
Meramec WW	102	102	627	611	612	616	628	616	615	614	612	612
Saddlebrooke WW	84	85	85	85	86	87	88	86	86	86	85	85
Total	422,577	422,889	423,611	423,545	423,063	425,089	430,641	425,030	427,990	427,908	427,668	427,639

2012

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	313,306	313,412	313,565	313,519	313,586	313,624	313,596	313,627	313,715	313,446	313,615	313,534
St. Joseph	28,450	28,477	28,510	28,592	28,618	28,644	28,590	28,665	28,594	28,540	28,437	28,470
Platte Co (Parkville)	5,101	5,116	5,120	5,133	5,143	5,163	5,172	5,167	5,180	5,180	5,179	5,185
Warrensburg	6,452	6,463	6,473	6,474	6,432	6,392	6,390	6,509	6,523	6,552	6,552	6,526
Brunswick	324	325	330	330	332	338	341	336	337	335	327	321
St. Charles	29,211	29,205	29,253	29,287	29,330	29,369	29,386	29,393	29,391	29,358	29,335	29,342
Mexico	4,263	4,271	4,281	4,299	4,305	4,294	4,280	4,284	4,282	4,284	4,273	4,263
Joplin	18,955	19,069	19,179	19,314	19,418	19,594	19,729	19,862	19,874	19,935	20,001	20,014
Jefferson City	8,998	9,014	9,045	9,070	9,058	9,059	9,045	9,049	9,052	9,038	9,007	8,999
Rankin Acres	87	87	87	87	87	87	87	87	87	87	87	87
Spring Valley/Lake Manor	131	131	131	131	131	131	131	131	131	131	131	131
Ozark Mountain / LTA	517	514	518	523	526	521	513	511	516	516	507	506
Whitebranch	137	137	137	137	137	137	137	137	137	137	137	137

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Stonebridge/Maplewood/Riverside	1,105	1,090	1,099	1,102	1,110	1,110	1,110	1,104	1,183	1,178	1,172	1,161
Saddlebrooke	84	84	84	84	84	84	84	84	84	84	84	84
Platte Co WW (Parkville)	105	105	104	103	104	105	104	104	103	103	103	102
Cedar Hill WW	652	645	647	645	646	650	651	651	653	655	651	651
Warren County WW	411	412	417	421	423	423	422	422	423	418	418	418
Ozark Meadows WW	25	25	25	25	25	25	25	24	24	24	24	24
Maplewood WW	377	378	380	381	382	376	370	370	366	371	369	368
Jefferson City WW	1,589	1,588	1,588	1,589	1,588	1,589	1,586	1,588	1,588	1,588	1,580	1,581
Stonebridge WW	465	454	457	458	462	458	456	456	537	537	536	530
Saddlebrooke WW	84	84	84	84	84	84	84	84	84	84	84	84
Total	420,829	421,086	421,514	421,788	422,011	422,257	422,283	422,803	422,868	422,581	422,609	422,518

2011

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	314,102	314,071	314,121	313,874	313,881	313,898	313,885	313,874	313,860	313,524	313,465	313,375
St. Joseph	28,419	28,461	28,508	28,501	28,533	28,585	28,548	28,512	28,586	28,512	28,495	28,470
Platte Co (Parkville)	5,060	5,074	5,072	5,083	5,104	5,106	5,109	5,113	5,117	5,098	5,095	5,086
Warrensburg	6,405	6,410	6,401	6,416	6,391	6,330	6,371	6,465	6,468	6,481	6,465	6,451
Brunswick	331	326	330	334	338	335	340	340	337	334	326	325
St. Charles	29,128	29,127	29,140	29,185	29,221	29,247	29,268	29,266	29,294	29,265	29,245	29,226
Mexico	4,268	4,269	4,272	4,280	4,274	4,260	4,274	4,285	4,262	4,265	4,251	4,247
Joplin	21,297	21,337	21,307	21,302	21,309	18,243	18,336	18,458	18,572	18,685	18,756	18,857
Jefferson City	8,925	8,924	8,939	8,940	8,956	8,936	8,944	8,944	8,963	9,032	9,000	8,988
Rankin Acres	-	-	-	-	-	-	-	87	87	87	87	87
Spring Valley/Lake Manor	-	-	-	-	-	-	-	131	131	131	131	131
Ozark Mountain / LTA	-	-	-	-	-	-	-	526	519	519	522	522
Whitebranch	-	-	-	-	-	-	-	137	137	137	137	137
Stonebridge/Maplewood/Riverside	-	-	-	-	-	-	-	1,591	1,203	1,192	1,186	1,185
Platte Co WW (Parkville)	105	105	105	105	105	105	105	105	105	105	105	105
Cedar Hill WW	642	642	645	643	643	646	643	643	647	647	657	655
Warren County WW	413	412	415	416	421	421	424	424	425	421	419	413
Ozark Meadows WW	-	-	-	-	-	-	-	24	24	25	25	25
Maplewood WW	-	-	-	-	-	-	-	382	378	379	382	382
Jefferson City WW	-	-	-	-	-	78	78	3,124	1,600	1,591	1,588	1,589
Stonebridge WW	-	-	-	-	-	-	-	547	547	541	539	540
Total	419,095	419,158	419,255	419,079	419,176	416,190	416,325	422,978	421,262	420,971	420,876	420,796

2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	314,862	314,919	315,031	315,095	315,403	315,393	314,984	315,029	314,868	314,528	314,464	314,262
St. Joseph	28,467	28,493	28,420	28,460	28,481	28,468	28,482	28,477	28,495	28,449	28,410	28,389
Platte Co (Parkville)	5,045	5,052	5,054	5,046	5,047	5,051	5,062	5,049	5,053	5,063	5,065	5,058
Warrensburg	6,318	6,320	6,340	6,364	6,318	6,288	6,318	6,398	6,409	6,415	6,423	6,389
Brunswick	341	341	340	344	346	348	344	344	343	346	337	330
St. Charles	28,825	28,833	29,090	29,110	29,142	29,164	29,177	29,169	29,176	29,161	29,139	29,138
Mexico	4,250	4,258	4,254	4,266	4,265	4,266	4,272	4,280	4,272	4,279	4,277	4,264
Joplin	20,806	20,873	20,933	20,949	20,965	20,965	20,984	20,999	20,940	20,923	20,999	20,999
Jefferson City	8,945	8,961	8,955	8,980	8,972	8,966	8,976	8,964	8,974	8,951	8,917	8,924
Platte Co WW (Parkville)	103	102	104	104	103	104	104	104	104	104	105	104

	356	372	378	384	385	392	396	398	397	394	392	394
Warren County WW	424,171	424,271	425,039	424,953	424,954	424,882	425,027	425,177	425,384	425,181	425,216	425,081
Total												

	2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County		317,691	318,080	318,527	318,820	319,046	319,101	319,217	319,567	319,856	320,552	320,766	321,126
St. Joseph		28,187	28,274	28,378	28,456	28,503	28,488	28,525	28,574	28,616	28,624	28,630	28,616
Platte Co (Parkville)		4,839	4,837	4,851	4,855	4,877	4,878	4,887	4,909	4,918	4,932	4,935	4,927
Warrensburg		5,940	5,963	5,984	5,991	5,969	5,948	5,953	6,092	6,105	6,118	6,109	6,120
Brunswick		378	379	385	387	386	392	389	388	379	377	369	368
St. Charles		28,213	28,224	28,283	28,359	28,384	28,414	28,439	28,486	28,544	28,573	28,557	28,553
Mexico		4,239	4,245	4,253	4,271	4,266	4,276	4,264	4,282	4,278	4,285	4,267	4,261
Joplin		19,935	20,024	20,111	20,181	20,208	20,296	20,315	20,370	20,411	20,416	20,376	20,365
Jefferson City		8,866	8,871	8,886	8,911	8,913	8,951	8,930	8,940	8,938	8,935	8,909	8,910
Platte Co WW (Parkville)		100	100	100	100	100	100	100	100	101	101	101	101
Cedar Hill WW		459	462	460	461	470	469	469	470	471	478	478	479
Warren County WW		355	353	356	359	362	360	361	364	364	362	362	359
Total		419,202	419,812	420,574	421,151	421,484	421,673	421,849	422,542	422,981	423,753	423,863	424,185

	2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County		315,280	315,376	315,849	316,235	316,477	316,719	316,833	316,644	316,882	316,907	317,080	317,436
St. Joseph		28,146	28,175	28,199	28,208	28,241	28,311	28,312	28,202	28,204	28,178	28,202	28,168
Platte Co (Parkville)		4,777	4,782	4,784	4,800	4,806	4,817	4,838	4,830	4,848	4,855	4,860	4,869
Warrensburg		5,774	5,789	5,789	5,784	5,797	5,685	5,720	5,797	5,869	5,884	5,915	5,927
Brunswick		375	376	381	384	387	390	391	395	392	387	386	384
St. Charles		27,454	27,485	27,496	27,520	27,580	27,624	27,672	28,090	28,139	28,167	28,176	28,179
Mexico		4,268	4,279	4,277	4,288	4,269	4,264	4,271	4,272	4,278	4,271	4,270	4,245
Joplin		19,824	19,890	19,943	19,964	19,983	19,973	19,958	19,947	19,942	19,954	19,980	19,980
Jefferson City		8,877	8,877	8,895	8,883	8,870	8,870	8,881	8,870	8,874	8,860	8,862	8,869
Platte Co WW (Parkville)		100	100	100	101	101	101	101	100	100	101	101	101
Cedar Hill WW		-	-	-	-	-	-	-	459	462	461	463	461
Warren County WW		-	-	-	-	-	-	-	363	366	361	359	358
Total		414,875	415,129	415,713	416,167	416,451	416,754	416,977	417,969	418,356	418,386	418,654	418,977

	2004	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County		312,176	312,233	312,542	312,501	312,822	312,277	313,506	313,741	314,148	314,429	314,565	314,685
St. Joseph		27,965	28,005	28,055	28,131	28,139	28,174	28,152	28,136	28,135	28,158	28,143	28,142
Platte Co (Parkville)		4,653	4,666	4,682	4,698	4,712	4,719	4,728	4,745	4,754	4,771	4,780	4,790
Warrensburg		5,665	5,677	5,694	5,668	5,649	5,627	5,631	5,683	5,728	5,752	5,770	5,774
Brunswick		379	378	382	383	387	390	390	393	388	388	384	382
St. Charles		26,862	26,885	26,953	27,024	27,043	27,113	27,174	27,200	27,241	27,307	27,353	27,394
Mexico		4,265	4,267	4,268	4,272	4,269	4,271	4,276	4,264	4,279	4,278	4,279	4,279
Joplin		19,410	19,437	19,517	19,549	19,602	19,687	19,687	19,739	19,818	19,861	19,865	19,826
Jefferson City		8,786	8,810	8,815	8,837	8,841	8,871	8,868	8,858	8,871	8,865	8,873	8,870
Platte Co WW (Parkville)		100	101	101	100	100	100	100	101	100	100	100	100
Total		410,261	410,459	411,163	411,163	411,564	411,512	412,512	412,860	413,462	413,909	414,112	414,242

	356	372	378	384	385	392	396	398	397	394	392	394
Warren County WW	424,171	424,271	425,039	424,953	424,954	424,882	425,027	425,177	425,384	425,181	425,216	425,081
Total	419,202	419,812	420,574	421,151	421,484	421,673	421,849	422,542	422,981	423,753	423,863	424,185

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	317,691	318,080	319,527	318,820	319,046	319,101	319,217	319,567	319,856	320,552	320,766	321,126
St. Joseph	28,187	28,274	28,378	28,456	28,503	28,488	28,525	28,574	28,616	28,624	28,630	28,616
Platte Co (Parkville)	4,839	4,837	4,851	4,855	4,877	4,878	4,887	4,909	4,918	4,932	4,935	4,927
Warrensburg	5,940	5,963	5,984	5,991	5,969	5,948	5,953	6,092	6,105	6,118	6,109	6,120
Brunswick	378	379	385	387	386	392	389	388	379	377	369	368
St. Charles	28,213	28,224	28,283	28,359	28,384	28,414	28,439	28,486	28,544	28,573	28,557	28,553
Mexico	4,239	4,245	4,253	4,271	4,266	4,276	4,264	4,282	4,278	4,285	4,267	4,261
Joplin	19,935	20,024	20,111	20,181	20,208	20,296	20,315	20,370	20,411	20,416	20,376	20,365
Jefferson City	8,866	8,871	8,886	8,911	8,913	8,951	8,930	8,940	8,938	8,935	8,909	8,910
Platte Co WW (Parkville)	100	100	100	100	100	100	100	100	101	101	101	101
Cedar Hill WW	459	462	460	461	470	469	469	470	471	478	482	479
Warren County WW	355	353	356	359	362	360	361	364	364	362	362	359
Total	419,202	419,812	420,574	421,151	421,484	421,673	421,849	422,542	422,981	423,753	423,863	424,185

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	315,280	315,376	315,849	316,235	316,477	316,719	316,833	316,644	316,882	316,907	317,080	317,436
St. Joseph	28,146	28,175	28,199	28,208	28,241	28,311	28,312	28,202	28,204	28,178	28,202	28,168
Platte Co (Parkville)	4,777	4,782	4,784	4,800	4,806	4,817	4,838	4,830	4,848	4,855	4,860	4,869
Warrensburg	5,774	5,789	5,789	5,784	5,737	5,685	5,720	5,797	5,869	5,884	5,915	5,927
Brunswick	375	376	381	384	387	390	391	395	392	387	386	384
St. Charles	27,454	27,485	27,496	27,520	27,580	27,624	27,672	28,090	28,139	28,167	28,176	28,179
Mexico	4,268	4,279	4,288	4,277	4,269	4,264	4,271	4,272	4,278	4,271	4,270	4,245
Joplin	19,824	19,890	19,943	19,964	19,983	19,973	19,958	19,947	19,942	19,954	19,980	19,980
Jefferson City	8,877	8,877	8,895	8,883	8,870	8,870	8,881	8,870	8,874	8,860	8,862	8,869
Platte Co WW (Parkville)	100	100	100	101	101	101	101	100	100	101	101	101
Cedar Hill WW	-	-	-	-	-	-	-	459	462	461	463	461
Warren County WW	-	-	-	-	-	-	-	363	366	361	359	358
Total	414,875	415,129	415,713	416,167	416,451	416,754	416,977	417,969	418,356	418,386	418,654	418,977

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	312,176	312,233	312,542	312,501	312,822	312,506	313,506	313,741	314,148	314,429	314,565	314,685
St. Joseph	27,965	28,005	28,055	28,131	28,139	28,174	28,152	28,136	28,135	28,158	28,143	28,142
Platte Co (Parkville)	4,653	4,666	4,682	4,698	4,712	4,719	4,728	4,745	4,754	4,771	4,780	4,790
Warrensburg	5,665	5,677	5,694	5,668	5,649	5,627	5,631	5,683	5,728	5,752	5,770	5,774
Brunswick	379	378	382	383	387	390	390	393	388	388	384	382
St. Charles	26,862	26,885	26,953	27,024	27,043	27,113	27,174	27,200	27,241	27,307	27,353	27,394
Mexico	4,265	4,267	4,268	4,272	4,269	4,271	4,276	4,264	4,279	4,278	4,279	4,279
Joplin	19,410	19,437	19,517	19,549	19,602	19,687	19,687	19,739	19,818	19,861	19,865	19,826
Jefferson City	8,786	8,810	8,815	8,837	8,841	8,871	8,868	8,858	8,871	8,865	8,873	8,870
Platte Co WW (Parkville)	100	101	101	100	100	100	100	101	100	100	100	100
Total	410,261	410,459	411,129	411,163	411,564	412,229	412,512	412,860	413,462	413,909	414,112	414,242

2003

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	311,166	311,260	311,394	311,516	311,584	311,515	311,572	311,571	311,515	311,508	311,744	311,935
St. Joseph	27,895	27,873	27,873	27,882	27,965	28,015	28,018	28,040	27,990	28,002	27,986	27,944
Platte Co (Parkville)	4,572	4,581	4,581	4,605	4,626	4,636	4,641	4,649	4,654	4,654	4,646	4,641
Warrensburg	5,554	5,538	5,551	5,557	5,531	5,525	5,513	5,609	5,654	5,654	5,667	5,645
Brunswick	374	373	374	378	382	389	387	389	392	388	386	382
St. Charles	26,554	26,533	26,555	26,572	26,605	26,656	26,671	26,720	26,763	26,791	26,803	26,804
Mexico	4,274	4,267	4,269	4,271	4,292	4,301	4,283	4,274	4,278	4,275	4,275	4,256
Joplin	19,343	17,314	19,300	19,374	19,403	19,388	19,381	19,366	19,378	19,346	19,382	19,349
Jefferson City	8,785	8,783	8,810	8,801	8,832	8,853	8,811	8,817	8,810	8,813	8,811	8,784
Platte Co WW (Parkville)	101	101	101	101	101	101	101	101	101	101	101	100
Total	408,618	406,623	408,808	409,057	409,321	409,379	409,378	409,536	409,537	409,532	409,801	409,840

2002

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	303,267	311,259	311,500	311,228	310,973	311,139	311,225	311,007	311,091	311,015	310,994	311,066
St. Joseph	27,695	27,747	27,704	27,777	27,766	27,832	27,893	27,881	27,914	27,917	27,883	27,854
Platte Co (Parkville)	4,365	4,369	4,379	4,416	4,420	4,428	4,447	4,521	4,532	4,551	4,559	4,561
Warrensburg	5,485	5,483	5,471	5,493	5,473	5,441	5,435	5,510	5,524	5,553	5,544	5,543
Brunswick	383	381	383	388	390	394	391	390	389	383	381	376
St. Charles	26,194	26,230	26,261	26,279	26,321	26,367	26,377	26,449	26,468	26,516	26,498	26,535
Mexico	4,280	4,279	4,274	4,293	4,292	4,285	4,293	4,285	4,287	4,291	4,285	4,265
Joplin	18,955	18,977	19,002	19,017	19,044	19,044	19,047	19,111	19,152	19,093	19,332	19,335
Jefferson City	8,789	8,781	8,755	8,793	8,801	8,794	8,819	8,810	8,815	8,771	8,775	8,763
Platte Co WW (Parkville)	101	101	101	101	101	101	101	101	101	101	101	101
Total	399,514	407,607	407,830	407,785	407,581	407,825	408,028	408,065	408,273	408,191	408,352	408,399

2001

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	287,831	288,479	288,454	287,256	289,680	289,650	289,578	289,695	289,852	289,976	289,844	289,867
St. Joseph	27,677	27,683	27,726	27,751	27,778	27,787	27,755	27,802	27,798	27,755	27,755	27,697
Platte Co (Parkville)	4,271	4,284	4,303	4,307	4,248	4,266	4,297	4,315	4,314	4,338	4,350	4,344
Warrensburg	5,391	5,385	5,400	5,409	5,388	5,305	5,359	5,388	5,433	5,456	5,462	5,462
Brunswick	384	382	389	391	393	392	389	389	389	387	391	388
St. Charles	25,830	25,855	25,871	25,913	25,900	25,959	25,983	26,042	26,052	26,110	26,113	26,186
Mexico	4,302	4,299	4,306	4,306	4,302	4,306	4,305	4,311	4,301	4,286	4,289	4,277
Joplin	18,746	18,783	18,800	18,814	18,850	18,850	18,854	18,899	18,929	18,925	19,088	18,971
Jefferson City	8,726	8,730	8,740	8,757	8,770	8,770	8,773	8,772	8,778	8,787	10,504	8,785
Platte Co WW (Parkville)	101	101	101	101	101	101	101	101	101	101	100	100
Total	383,259	383,981	384,090	383,005	385,399	385,386	385,394	385,714	385,947	386,121	387,896	386,077

Commercial Customer Counts
2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	16,560	16,569	16,577	16,599	16,609	16,614	16,624	16,641	16,646			
St. Joseph	2,643	2,637	2,637	2,663	2,672	2,678	2,677	2,668	2,660			
Platte Co (Parkville)	454	453	453	454	454	458	456	456	456			
Warrensburg	625	623	623	624	669	665	666	665	667			
Brunswick	64	63	64	65	65	64	64	63	62			
St. Charles	681	680	682	690	690	691	692	693	696			
Mexico	426	426	427	428	429	428	429	426	430			
Joplin	2,555	2,556	2,558	2,570	2,569	2,575	2,584	2,578	2,577			
Jefferson City	1,389	1,390	1,391	1,400	1,411	1,413	1,408	1,416	1,415			
Spring Valley/Lake Manor	1	1	1	1	1	1	1	1	1			
Stonebridge/Maplewood/Riverside	77	77	77	78	96	106	107	108	108			
Saddlebrooke	-	-	-	2	2	2	2	2	2			
Tri-States	390	388	390	390	389	393	391	391	393			
Emerald Pointe	84	84	83	82	92	96	98	97	99			
Cedar Hill WW	62	62	62	61	61	61	60	60	60			
Warren County WW	2	2	2	2	2	2	2	2	2			
Maplewood WW	4	4	4	4	4	4	4	4	4			
Jefferson City WW	7	7	8	8	8	8	8	7	7			
Stonebridge WW	64	64	64	64	64	64	64	64	64			
Meramec WW	-	-	-	1	1	1	1	1	1			
Saddlebrooke WW	-	-	-	26	26	26	26	26	26			
Emerald Pointe WW	26	26	26	26	26	26	26	26	26			
Arnold WW	-	-	-	-	-	521	521	555	526			
Total	26,114	26,112	26,129	26,212	26,314	26,350	26,885	26,925	26,903	-	-	-

2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	16,646	16,630	16,632	16,599	16,581	16,562	16,572	16,570	16,586	16,572	16,589	16,567
St. Joseph	2,672	2,670	2,658	2,675	2,672	2,685	2,691	2,696	2,697	2,674	2,652	2,643
Platte Co (Parkville)	440	439	439	439	448	453	452	453	454	453	452	454
Warrensburg	611	611	610	610	612	629	629	631	631	628	629	626
Brunswick	66	66	66	66	64	64	64	65	65	65	65	65
St. Charles	682	681	682	680	685	688	689	691	691	686	686	686
Mexico	425	425	428	428	430	431	428	426	430	430	431	429
Joplin	2,542	2,538	2,530	2,532	2,544	2,557	2,561	2,561	2,572	2,570	2,549	2,544
Jefferson City	1,404	1,403	1,400	1,406	1,416	1,421	1,418	1,413	1,413	1,405	1,398	1,391
Spring Valley/Lake Manor	-	-	-	86	105	109	109	109	91	91	81	77
Stonebridge/Maplewood/Riverside	-	-	-	1	1	1	2	2	2	2	2	-
Saddlebrooke	374	371	393	392	396	396	400	400	397	398	395	393
Tri-States	-	-	-	73	76	79	82	82	90	91	87	85
Emerald Pointe	-	-	-	62	61	63	63	65	64	64	64	63
Cedar Hill WW	62	62	62	62	61	63	63	65	64	64	64	63
Warren County WW	2	2	2	2	2	2	2	2	2	2	2	2

8/24

GM-6

	96	96	96	96	96	96	96	96	98	99	97	95	94
Stonebridge WW													
Total	25,639	25,688	25,717	25,754	25,832	25,902	25,930	25,982	25,960	25,887	25,817	25,772	

2011

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	16,833	16,842	16,819	16,786	16,782	16,787	16,787	16,820	16,805	16,783	16,787	16,767
St. Joseph	2,674	2,675	2,683	2,692	2,705	2,711	2,704	2,707	2,682	2,662	2,646	2,642
Platte Co (Parkville)	435	435	437	440	443	444	443	443	444	444	445	443
Warrensburg	623	619	619	622	620	623	623	618	616	615	617	614
Brunswick	66	66	65	66	66	66	68	67	66	64	64	64
St. Charles	679	681	681	684	684	684	686	684	682	680	678	678
Mexico	429	426	429	428	428	430	431	430	430	425	423	426
Joplin	2,659	2,664	2,649	2,654	2,654	2,287	2,304	2,319	2,316	2,337	2,338	2,334
Jefferson City	1,417	1,415	1,412	1,425	1,430	1,438	1,435	1,432	1,434	1,429	1,427	1,426
Stonebridge/Maplewood/Riverside	-	-	-	-	-	-	-	9	141	140	124	125
Platte Co WW (Parkville)	1	1	1	1	1	1	1	1	1	1	1	1
Cedar Hill WW	51	50	51	52	52	52	54	53	54	54	54	54
Warren County WW	2	2	2	2	2	2	2	2	2	2	2	2
Maplewood WW	-	-	-	-	-	-	-	3	3	3	3	4
Stonebridge WW	-	-	-	-	-	-	-	96	96	95	95	94
Total	25,869	25,876	25,848	25,852	25,867	25,825	25,538	25,684	25,772	25,734	25,704	25,674

2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	17,594	17,580	17,597	17,350	16,938	16,878	16,889	16,884	16,880	16,866	16,878	16,847
St. Joseph	2,844	2,833	2,824	2,840	2,826	2,829	2,833	2,837	2,830	2,808	2,779	2,775
Platte Co (Parkville)	440	438	437	437	435	436	437	438	439	438	437	437
Warrensburg	608	609	614	617	619	619	620	620	621	622	622	623
Brunswick	63	64	63	64	64	65	66	66	67	67	66	65
St. Charles	888	890	893	893	893	893	893	893	893	893	893	893
Mexico	429	433	431	431	433	431	429	428	431	432	432	429
Joplin	2,654	2,653	2,655	2,651	2,661	2,664	2,662	2,669	2,662	2,655	2,657	2,651
Jefferson City	1,411	1,411	1,414	1,422	1,422	1,424	1,430	1,428	1,425	1,424	1,413	1,414
Platte Co WW (Parkville)	1	1	1	1	1	1	1	1	1	1	1	1
Cedar Hill WW	52	51	54	53	53	52	52	52	53	53	53	53
Warren County WW	2	2	2	2	2	2	2	2	2	2	2	2
Total	26,986	26,965	26,764	26,537	26,122	26,072	26,093	26,102	26,088	26,048	26,018	25,974

2009

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	17,753	17,738	17,709	17,690	17,672	17,689	17,713	17,715	17,702	17,703	17,680	17,656
St. Joseph	2,830	2,821	2,814	2,838	2,850	2,871	2,878	2,876	2,871	2,849	2,842	2,861
Platte Co (Parkville)	435	432	417	433	439	438	439	441	438	437	438	442
Warrensburg	610	604	603	605	612	613	616	615	616	612	612	609
Brunswick	65	65	65	65	67	67	68	68	68	66	66	64
St. Charles	899	892	893	892	896	896	899	904	907	903	902	902
Mexico	429	432	436	437	435	436	436	438	437	436	435	433
Joplin	2,701	2,696	2,692	2,706	2,702	2,703	2,688	2,689	2,694	2,679	2,676	2,668
Jefferson City	1,410	1,413	1,408	1,418	1,422	1,422	1,423	1,425	1,424	1,418	1,418	1,418

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Platte Co WW (Parkville)	1	1	1	1	1	1	1	1	1	1	1	1
Cedar Hill WW	54	54	54	54	54	52	52	52	52	52	52	52
Warren County WW	2	2	2	2	2	2	2	2	2	2	2	2
Total	27,189	27,150	27,094	27,141	27,152	27,190	27,215	27,226	27,212	27,158	27,124	27,108

2008

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	19,392	19,341	19,307	19,083	18,974	18,972	18,896	18,695	18,272	18,045	17,942	17,797
St. Joseph	2,927	2,919	2,920	2,879	2,885	2,887	2,883	2,885	2,877	2,880	2,855	2,842
Platte Co (Parkville)	439	435	437	426	433	432	435	430	435	436	437	436
Warrensburg	624	625	625	610	606	607	607	609	608	610	605	600
Brunswick	67	67	67	68	69	70	70	70	70	68	67	65
St. Charles	915	916	915	893	898	900	897	895	897	903	897	903
Mexico	439	436	438	436	440	440	442	444	441	437	434	432
Joplin	2,747	2,745	2,748	2,705	2,711	2,716	2,722	2,711	2,716	2,720	2,717	2,708
Jefferson City	1,404	1,410	1,413	1,403	1,401	1,401	1,404	1,405	1,407	1,398	1,396	1,396
Platte Co WW (Parkville)	1	1	1	1	1	1	1	1	1	1	1	1
Cedar Hill WW	58	59	59	59	57	56	56	56	56	56	56	56
Warren County WW	2	2	2	2	2	2	2	2	2	2	2	2
Total	29,015	28,956	28,932	28,565	28,477	28,484	28,415	28,212	27,786	27,554	27,409	27,238

2007

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	20,602	20,542	19,073	19,421	19,567	19,673	19,627	19,622	19,634	19,509	19,515	19,427
St. Joseph	2,925	2,924	2,937	2,939	2,956	2,959	2,963	2,965	2,967	2,955	2,984	2,929
Platte Co (Parkville)	429	427	427	429	430	432	433	434	442	430	438	438
Warrensburg	624	628	626	624	625	625	623	624	625	625	623	624
Brunswick	72	71	71	71	73	73	74	74	73	71	71	67
St. Charles	897	896	893	898	907	903	905	909	910	911	911	911
Mexico	438	437	438	441	442	444	443	444	445	442	438	439
Joplin	2,735	2,728	2,736	2,738	2,734	2,737	2,746	2,738	2,749	2,754	2,758	2,735
Jefferson City	1,416	1,415	1,413	1,416	1,417	1,422	1,426	1,428	1,427	1,419	1,413	1,412
Platte Co WW (Parkville)	1	1	1	1	1	1	1	1	1	1	1	1
Cedar Hill WW	72	72	72	72	72	66	61	59	59	63	60	59
Warren County WW	2	2	2	2	2	2	2	2	2	2	2	2
Total	30,213	30,143	28,689	29,052	29,226	29,337	29,304	29,300	29,334	29,181	29,164	29,044

2006

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	21,349	21,578	21,630	21,591	21,477	21,453	21,538	21,464	21,297	20,863	20,810	20,603
St. Joseph	2,905	2,910	2,925	2,951	2,950	2,958	2,955	2,959	2,952	2,955	2,944	2,931
Platte Co (Parkville)	432	423	425	430	429	431	431	426	428	428	432	433
Warrensburg	621	618	619	617	615	616	620	619	620	626	625	625
Brunswick	66	66	64	64	71	72	73	73	73	73	73	73
St. Charles	938	941	943	941	943	947	948	945	896	896	894	895
Mexico	439	435	435	435	442	439	438	437	442	441	437	436
Joplin	2,715	2,713	2,707	2,716	2,714	2,725	2,727	2,733	2,728	2,728	2,720	2,729
Jefferson City	1,428	1,427	1,433	1,441	1,446	1,445	1,444	1,441	1,440	1,431	1,420	1,416
Platte Co WW (Parkville)	1	1	1	1	1	1	1	1	1	1	1	1

	76	77	78	79	79	77	71	71	71	71	71	72
Cedar Hill WW	2	2	2	2	2	2	2	2	2	2	2	2
Warren County WW	30,972	31,191	31,267	31,169	31,168	31,256	31,171	30,950	30,515	30,429	30,216	

2005

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	20,745	21,036	20,979	20,935	20,976	20,938	21,046	21,082	21,153	21,056	21,333	21,288
St. Joseph	2,913	2,908	2,927	2,956	2,974	2,988	2,985	2,985	2,972	2,951	2,929	2,906
Platte Co (Parkville)	388	389	406	409	410	416	415	415	406	407	407	408
Warrensburg	604	606	608	607	608	607	606	604	608	611	618	619
Brunswick	70	69	68	68	68	68	68	68	68	67	66	66
St. Charles	932	931	933	931	929	934	933	939	939	932	937	934
Mexico	441	440	441	445	444	444	445	447	445	443	443	439
Joplin	2,734	2,736	2,743	2,748	2,729	2,722	2,751	2,747	2,722	2,726	2,727	2,726
Jefferson City	1,438	1,439	1,437	1,438	1,439	1,441	1,440	1,438	1,441	1,451	1,442	1,436
Platte Co WW (Parkville)	-	-	-	-	-	-	-	-	-	-	1	1
Cedar Hill WW	-	-	-	-	-	-	-	81	80	77	77	77
Warren County WW	-	-	-	-	-	-	-	2	2	2	2	2
Total	30,265	30,554	30,542	30,538	30,577	30,558	30,689	30,808	30,847	30,723	30,982	30,902

2004

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	18,911	18,889	37,643	20,617	20,735	37,742	20,455	20,531	20,588	20,783	20,876	20,825
St. Joseph	2,969	2,954	2,955	2,978	2,982	2,977	2,967	2,959	2,959	2,942	2,918	2,920
Platte Co (Parkville)	349	352	354	353	355	370	367	372	370	370	371	378
Warrensburg	583	583	592	593	591	590	593	591	592	596	596	601
Brunswick	73	72	72	73	73	73	73	72	72	71	70	71
St. Charles	927	929	931	924	924	928	925	927	925	930	926	933
Mexico	450	448	449	452	454	454	454	456	454	453	445	445
Joplin	2,827	2,818	2,789	2,792	2,790	2,782	2,784	2,772	2,765	2,759	2,737	2,740
Jefferson City	1,455	1,450	1,454	1,450	1,457	1,462	1,458	1,455	1,450	1,453	1,444	1,442
Total	28,544	28,495	47,239	30,232	30,361	47,378	30,076	30,135	30,175	30,357	30,383	30,355

2003

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	20,478	18,539	18,507	18,536	18,663	18,711	18,712	18,782	18,852	18,918	18,958	18,981
St. Joseph	3,087	3,073	3,073	3,084	3,108	3,099	3,085	3,084	3,067	3,030	3,007	2,995
Platte Co (Parkville)	326	345	345	348	353	349	349	349	359	358	352	351
Warrensburg	594	582	584	586	584	584	584	582	581	581	583	581
Brunswick	73	74	75	77	77	76	76	75	76	75	75	75
St. Charles	894	919	942	957	962	949	950	934	934	927	930	931
Mexico	469	468	471	471	472	468	467	467	461	457	454	452
Joplin	2,970	2,955	2,958	2,966	2,961	2,932	2,915	2,902	2,899	2,883	2,877	2,846
Jefferson City	1,692	1,683	1,689	1,689	1,463	1,476	1,480	1,477	1,475	1,472	1,468	1,465
Total	30,583	28,638	28,644	28,714	28,643	28,644	28,618	28,652	28,703	28,701	28,704	28,668

2002

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	19,583	20,151	20,035	20,414	20,471	20,554	20,489	20,410	20,304	18,471	18,482	18,500

12/24

GM-6

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Joseph	3,100	3,095	3,099	3,118	3,132	3,151	3,153	3,142	3,143	3,125	3,104	3,095
Platte Co (Parkville)	394	393	389	391	392	393	392	325	324	323	323	321
Warrensburg	598	597	595	596	596	598	597	600	602	600	600	600
Brunswick	70	70	70	70	72	73	74	75	75	74	74	74
St. Charles	884	894	896	899	900	902	906	889	887	886	893	890
Mexico	475	474	476	477	477	478	478	476	474	474	471	470
Joplin	3,110	3,122	3,130	3,135	3,141	3,135	3,136	3,145	3,146	3,130	2,985	2,979
Jefferson City	1,690	1,689	1,684	1,685	1,696	1,700	1,707	1,707	1,706	1,707	1,699	1,692
Total	29,904	30,485	30,374	30,785	30,877	30,984	30,932	30,769	30,661	28,790	28,631	28,621

2001

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	15,634	15,645	15,644	15,651	15,781	15,771	15,776	15,782	15,807	15,827	15,854	18,629
St. Joseph	3,139	3,134	3,149	3,159	3,172	3,169	3,176	3,189	3,183	3,152	3,138	3,111
Platte Co (Parkville)	317	319	318	321	394	394	396	393	393	394	396	396
Warrensburg	589	590	589	588	589	592	593	593	595	596	594	601
Brunswick	70	69	69	70	71	70	70	70	70	71	70	71
St. Charles	854	854	857	856	903	908	907	907	907	914	886	886
Mexico	469	468	470	472	478	479	480	482	482	481	478	475
Joplin	3,116	3,112	3,117	3,120	3,117	3,102	3,123	3,132	3,124	3,122	3,129	3,115
Jefferson City	1,690	1,686	1,687	1,698	1,703	1,706	1,710	1,711	1,708	1,701	1,831	1,692
Total	25,878	25,877	25,900	25,935	26,208	26,191	26,231	26,259	26,269	26,258	26,376	28,976

Industrial Customer Counts
2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	122	121	120	120	120	120	120	120	119			
St. Joseph	87	87	88	88	88	88	88	88	88			
Platte Co (Parkville)	8	9	8	8	8	8	8	8	8			
Warrensburg	15	15	15	15	15	15	15	15	15			
Mexico	13	13	13	13	13	13	13	13	13			
Joplin	51	51	51	51	51	51	51	51	51			
Jefferson City	12	12	12	12	12	12	12	12	12			
Total	308	308	307	307	307	307	307	307	306			

2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	119	119	119	119	119	119	119	119	120	122	122	122
St. Joseph	88	87	87	86	86	86	87	87	88	88	88	87
Platte Co (Parkville)	9	9	9	9	9	9	9	9	8	8	8	8
Warrensburg	15	15	15	15	15	15	15	15	15	15	15	15
Mexico	13	13	13	13	13	13	13	13	13	13	13	13
Joplin	52	52	52	53	53	53	52	52	52	52	52	51
Jefferson City	12	12	12	12	12	12	12	12	12	12	12	12
Total	308	307	307	307	307	307	307	307	308	310	310	308

2013

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	119	119	119	118	120	120	120	120	120	120	119	119
St. Joseph	85	86	86	86	89	89	89	89	89	89	89	88
Platte Co (Parkville)	10	12	12	12	9	9	10	8	8	8	9	9
Warrensburg	13	13	13	14	14	14	14	14	14	14	14	15
Mexico	13	13	13	13	13	13	13	13	13	13	13	13
Joplin	50	50	50	50	52	52	52	52	52	52	52	52
Jefferson City	12	12	12	12	12	12	12	12	12	12	12	12
Total	302	305	305	305	309	309	310	308	308	308	308	308

2012

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	123	124	121	121	121	121	121	119	119	119	119	119
St. Joseph	85	85	85	85	84	84	84	84	84	84	84	85
Platte Co (Parkville)	10	10	10	10	10	10	10	10	10	10	10	10
Warrensburg	13	13	13	13	13	13	13	13	13	13	13	13
Mexico	13	13	12	12	12	12	12	12	12	13	13	13
Joplin	50	50	50	50	50	50	50	50	50	50	50	50
Jefferson City	11	11	11	11	11	11	11	12	12	12	12	12
Total	305	306	302	302	301	301	301	300	300	301	302	302

2011

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	129	129	129	129	129	126	126	126	122	123	124	123
St. Joseph	83	83	83	84	85	86	86	86	86	86	86	85
Platte Co (Parkville)	8	8	8	8	8	8	11	11	11	10	10	10
Warrensburg	13	13	13	13	13	13	13	13	13	13	13	13
Brunswick	-	-	-	-	-	-	-	-	2	2	2	2
Mexico	12	12	12	12	12	12	12	12	12	12	12	13
Joplin	50	50	50	50	50	49	50	50	50	50	50	50
Jefferson City	11	11	11	11	11	11	11	11	11	11	11	11
Stonebridge/Maplewood/Riverside	-	-	-	-	-	-	-	-	1	1	1	1
Stonebridge WW	-	-	-	-	-	-	-	-	1	1	1	1
Total	306	306	306	307	308	306	308	309	309	309	310	309

2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	138	138	138	130	131	131	129	129	130	130	130	129
St. Joseph	83	83	83	83	83	83	83	83	83	83	83	83
Platte Co (Parkville)	8	8	8	8	8	8	8	8	8	8	8	8
Warrensburg	14	14	14	14	14	14	14	14	14	14	14	13
Brunswick	2	2	2	2	2	2	2	2	2	2	2	2
Mexico	14	13	13	13	13	12	13	13	13	13	12	12
Joplin	50	50	50	50	50	50	50	50	50	50	50	50
Jefferson City	11	11	11	11	11	11	11	11	10	11	11	12
Total	320	319	319	311	312	311	310	310	310	311	309	309

2009

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	140	140	140	140	140	140	139	138	138	139	138	138
St. Joseph	86	86	86	86	85	85	84	84	84	84	83	83
Platte Co (Parkville)	8	8	8	8	8	8	8	8	8	8	8	8
Warrensburg	14	14	14	14	14	14	14	14	14	14	14	14
Brunswick	2	2	2	2	2	2	2	3	3	3	3	2
Mexico	14	14	14	14	14	14	14	14	14	14	14	14
Joplin	54	54	54	54	54	53	53	53	53	53	51	51
Jefferson City	11	11	11	11	11	11	11	11	11	11	11	11
Total	329	329	329	329	328	327	325	325	325	326	322	321

2008

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	149	149	150	150	150	149	149	149	149	147	141	140
St. Joseph	87	87	88	88	88	88	87	87	87	86	86	86
Platte Co (Parkville)	7	7	7	6	6	6	8	8	8	8	8	8
Warrensburg	14	14	14	14	14	14	14	14	14	14	14	14
Brunswick	2	3	2	2	2	2	2	2	2	2	2	2
St. Charles	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	16	16	16	16	14	14	14	14	14	14	14	14
Joplin	57	57	57	55	55	55	55	55	54	54	54	54
Jefferson City	12	12	12	12	12	12	12	12	12	11	11	11
Total	345	346	347	342	342	341	342	342	341	337	331	330

2007

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	154	155	151	151	151	151	151	153	153	153	149	150
St. Joseph	88	87	87	87	87	86	86	87	86	87	87	87
Platte Co (Parkville)	7	7	7	7	7	7	7	7	7	7	7	7
Warrensburg	14	14	14	14	14	13	14	14	14	14	14	14
Brunswick	2	2	2	2	2	2	2	2	3	2	2	2
St. Charles	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	16	16	16	16	16	16	16	16	16	16	16	16
Joplin	60	60	60	60	60	59	59	59	58	58	58	57
Jefferson City	12	12	12	12	12	12	12	11	12	12	12	12
Total	354	354	350	350	350	347	348	350	350	350	345	346

2006

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	167	164	164	164	164	164	164	163	164	164	164	153
St. Joseph	89	89	89	87	88	88	89	89	90	89	90	90
Platte Co (Parkville)	9	9	8	8	8	8	8	8	7	7	7	7
Warrensburg	13	13	13	13	13	13	13	14	14	14	14	14
Brunswick	2	2	2	2	2	2	2	2	2	2	2	2
St. Charles	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	15	15	15	15	15	15	16	16	16	16	15	16
Joplin	58	59	59	59	60	60	60	60	60	60	60	60
Jefferson City	12	12	12	12	12	12	12	12	12	12	12	12
Total	366	364	363	361	363	363	365	365	366	365	365	355

2005

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	196	196	200	198	199	198	198	198	198	199	196	166
St. Joseph	92	92	91	89	91	88	88	88	87	87	87	89
Platte Co (Parkville)	14	14	14	14	14	14	12	12	9	9	9	9
Warrensburg	13	13	13	13	13	13	13	13	13	13	13	13
Brunswick	2	2	2	2	2	2	2	2	2	2	2	2
St. Charles	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	15	15	14	14	15	15	15	15	16	16	16	15
Joplin	57	57	57	57	57	58	58	58	58	58	58	58
Jefferson City	12	12	12	12	12	12	12	12	12	12	12	12
Total	402	402	404	400	404	401	399	399	396	397	394	365

2004

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	201	201	396	202	200	392	199	199	199	198	198	198
St. Joseph	98	98	94	93	92	92	92	93	93	93	93	93
Platte Co (Parkville)	13	13	15	15	15	15	15	14	14	14	14	14
Warrensburg	13	13	13	13	13	13	13	13	13	13	13	13
Brunswick	2	2	2	2	2	2	2	2	2	2	2	2
St. Charles	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	14	14	15	15	15	15	15	16	16	16	16	15

Joplin	62	59	57	57	57	56	55	57	57	57	57	57	57
Jefferson City	12	12	12	12	12	12	12	12	12	12	12	12	12
Total	416	413	605	410	407	405	405	407	406	406	406	406	405

2003

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	563	208	209	206	205	205	205	205	204	203	202	202
St. Joseph	104	104	104	98	100	100	100	100	101	101	100	100
Platte Co (Parkville)	11	11	11	11	11	13	13	13	13	13	13	13
Warrensburg	13	13	13	13	13	13	13	13	13	13	13	13
Brunswick	2	2	2	2	2	2	2	2	2	2	2	2
St. Charles	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	14	14	13	13	13	13	13	12	13	15	14	14
Joplin	63	63	63	63	64	64	63	63	63	62	62	62
Jefferson City	13	13	12	13	13	12	12	12	12	12	12	12
Total	784	429	428	420	422	423	422	421	422	422	419	419

2002

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	576	572	578	574	576	570	569	567	567	213	209	208
St. Joseph	104	104	104	105	106	104	104	105	104	104	104	104
Platte Co (Parkville)	11	11	11	11	11	11	11	11	11	11	11	11
Warrensburg	14	14	14	13	13	13	13	13	13	13	13	13
Brunswick	2	2	2	2	2	2	2	2	2	2	2	2
St. Charles	1	1	1	2	2	2	2	2	2	2	1	1
Mexico	14	14	13	14	14	14	14	14	14	14	14	14
Joplin	62	62	62	62	63	64	64	64	64	64	63	61
Jefferson City	13	13	13	13	13	13	13	13	13	13	13	13
Total	797	793	798	796	800	793	792	791	790	436	430	427

2001

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	215	211	210	213	209	209	209	209	209	209	948	565
St. Joseph	103	103	103	103	104	104	106	108	108	108	133	106
Platte Co (Parkville)	11	11	11	11	11	11	11	11	11	11	11	11
Warrensburg	13	13	13	13	13	13	13	13	13	13	13	14
Brunswick	3	3	3	3	3	3	2	2	2	2	2	2
St. Charles	2	2	2	2	2	2	2	2	2	2	2	1
Mexico	14	14	14	14	14	14	14	14	14	14	14	14
Joplin	62	62	62	62	62	62	62	62	62	62	88	62
Jefferson City	13	13	13	13	13	13	13	13	13	13	13	13
Total	436	432	431	434	431	430	432	434	434	434	1,224	788

Other Public Authority Customer Counts
 2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	760	760	762	766	766	764	765	766	766			
St. Joseph	186	186	194	208	207	207	209	208	208			
Platte Co (Parkville)	40	40	40	39	39	39	39	39	39			
Warrensburg	166	165	165	166	165	165	165	165	165			
Brunswick	7	7	7	9	9	9	9	9	9			
St. Charles	78	78	77	77	77	77	77	77	77			
Mexico	86	86	94	103	103	102	103	103	103			
Joplin	149	149	149	149	149	149	149	149	149			
Jefferson City	286	286	288	288	288	289	291	293	293			
Arnold WW							24	21	12			
Total	1,758	1,757	1,776	1,805	1,803	1,801	1,831	1,830	1,821			

2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	753	752	753	755	757	758	760	759	766	760	760	760
St. Joseph	189	185	194	209	210	211	211	210	210	194	188	188
Platte Co (Parkville)	40	40	40	40	40	40	40	40	40	40	40	40
Warrensburg	166	166	164	167	167	168	168	169	168	168	168	167
Brunswick	8	8	8	8	9	9	9	9	9	9	7	7
St. Charles	78	78	78	78	78	78	77	77	77	77	77	78
Mexico	87	86	86	102	102	102	102	102	102	91	86	86
Joplin	146	146	145	147	149	145	143	148	148	148	149	148
Jefferson City	290	286	288	288	291	293	294	294	295	295	296	296
Total	1,757	1,747	1,756	1,794	1,803	1,804	1,804	1,808	1,815	1,782	1,772	1,770

2013

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	750	751	751	753	781	760	760	757	759	757	755	754
St. Joseph	188	187	211	211	214	214	214	212	211	206	201	191
Platte Co (Parkville)	40	40	40	40	40	40	40	40	40	40	40	40
Warrensburg	167	167	168	168	166	167	167	167	166	166	166	166
Brunswick	7	7	7	7	8	8	8	8	8	8	8	8
St. Charles	77	78	78	78	53	78	79	79	79	78	78	78
Mexico	88	88	88	103	102	102	104	102	103	92	88	87
Joplin	221	179	171	171	156	150	150	150	145	144	144	144
Jefferson City	292	291	292	292	292	294	294	294	294	293	292	291
Total	1,830	1,788	1,806	1,823	1,812	1,813	1,816	1,809	1,805	1,784	1,772	1,759

2012

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	756	756	738	738	739	745	746	743	748	747	747	748
St. Joseph	188	188	207	213	215	216	215	215	213	192	189	189
Platte Co (Parkville)	34	34	34	35	40	40	40	40	40	40	40	40

Warrensburg	165	165	165	165	165	168	168	168	168	167	167	167	167
Brunswick	5	5	7	7	7	7	7	7	7	7	7	7	7
St. Charles	75	75	75	75	75	75	76	78	77	77	77	77	77
Mexico	87	87	88	103	103	103	103	103	103	88	88	88	88
Joplin	480	459	415	415	360	323	320	320	325	244	244	245	245
Jefferson City	296	296	295	297	298	298	298	297	296	296	296	296	293
Total	2,066	2,045	2,022	2,048	2,056	2,012	1,976	1,971	1,978	1,860	1,855	1,854	1,854

2011

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	742	742	729	729	731	733	736	741	740	739	738	738
St. Joseph	184	184	211	215	214	215	215	215	213	196	190	188
Platte Co (Parkville)	40	40	40	40	40	34	34	34	34	34	34	34
Warrensburg	164	164	163	164	163	164	164	164	165	165	165	165
Brunswick	5	5	5	6	7	7	7	7	7	6	5	5
St. Charles	76	76	77	78	78	78	78	78	78	78	77	77
Mexico	88	88	88	103	103	103	103	103	103	88	88	87
Joplin	153	153	153	153	153	135	137	470	461	461	509	510
Jefferson City	294	294	295	297	297	296	296	296	297	296	296	296
Total	1,746	1,746	1,761	1,785	1,786	1,765	1,770	2,108	2,098	2,063	2,102	2,100

2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	746	748	746	750	742	735	737	741	742	742	742	743
St. Joseph	187	188	210	212	212	211	211	211	211	195	185	185
Platte Co (Parkville)	41	40	40	40	40	40	40	40	40	40	40	40
Warrensburg	161	161	161	162	162	162	162	162	161	162	162	162
Brunswick	8	8	8	7	7	7	7	7	7	7	6	6
St. Charles	76	76	77	77	77	77	77	77	76	76	76	76
Mexico	86	87	87	103	103	103	103	103	103	88	88	88
Joplin	153	153	153	152	152	151	152	152	152	152	152	152
Jefferson City	290	290	291	293	293	294	295	298	298	298	295	295
Total	1,748	1,751	1,773	1,796	1,788	1,780	1,784	1,791	1,790	1,760	1,746	1,747

2009

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	677	680	705	741	738	748	750	749	750	748	748	747
St. Joseph	183	183	201	210	211	211	212	213	213	193	187	187
Platte Co (Parkville)	41	41	41	41	41	41	41	41	41	41	41	41
Warrensburg	154	154	154	155	156	159	160	160	160	161	162	162
Brunswick	8	8	8	8	8	8	8	8	8	8	8	8
St. Charles	77	78	78	79	79	79	79	80	80	79	78	78
Mexico	86	86	86	102	103	103	103	103	103	88	87	86
Joplin	152	152	155	155	156	158	158	159	159	158	157	154
Jefferson City	289	290	291	291	293	296	297	297	298	296	295	289
Total	1,667	1,672	1,719	1,782	1,785	1,803	1,808	1,810	1,812	1,772	1,763	1,752

2008

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	746	746	746	746	746	746	746	746	746	746	746	746
St. Joseph	187	187	187	187	187	187	187	187	187	187	187	187
Platte Co (Parkville)	41	41	41	41	41	41	41	41	41	41	41	41
Warrensburg	161	161	161	161	161	161	161	161	161	161	161	161
Brunswick	8	8	8	8	8	8	8	8	8	8	8	8
St. Charles	76	76	76	76	76	76	76	76	76	76	76	76
Mexico	86	86	86	86	86	86	86	86	86	86	86	86
Joplin	153	153	153	153	153	153	153	153	153	153	153	153
Jefferson City	290	290	290	290	290	290	290	290	290	290	290	290
Total	1,748	1,751	1,773	1,796	1,788	1,780	1,784	1,791	1,790	1,760	1,746	1,747

	720	717	716	724	724	725	730	732	731	677
St. Louis County	704	717	716	724	724	725	730	732	731	677
St. Joseph	204	203	221	210	210	210	209	196	185	186
Platte Co (Parkville)	36	36	36	36	36	36	36	41	41	41
Warrensburg	152	153	153	153	153	153	153	155	155	155
Brunswick	7	7	7	7	7	8	8	8	8	8
St. Charles	71	71	71	69	69	72	72	72	73	75
Mexico	84	84	84	100	100	101	101	87	86	86
Joplin	150	149	150	150	151	151	151	152	152	152
Jefferson City	273	273	274	274	279	281	278	276	276	274
Total	1,697	1,693	1,712	1,720	1,729	1,737	1,739	1,746	1,707	1,654

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	704	703	717	717	718	718	721	718	718	716	716	717
St. Joseph	180	184	203	204	227	227	227	227	225	208	203	204
Platte Co (Parkville)	39	38	38	37	37	36	36	36	36	36	36	36
Warrensburg	154	155	155	155	155	155	154	154	154	154	153	153
Brunswick	7	7	7	7	7	7	7	7	7	7	7	7
St. Charles	67	67	72	72	72	72	72	72	71	72	71	71
Mexico	85	85	85	99	99	99	100	100	100	86	86	84
Joplin	145	145	146	146	145	146	147	148	148	148	150	151
Jefferson City	270	270	271	270	270	271	272	272	272	273	273	273
Total	1,651	1,654	1,694	1,707	1,730	1,731	1,736	1,734	1,731	1,700	1,695	1,696

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	678	684	689	693	696	700	699	699	698	704	700	704
St. Joseph	175	174	204	205	208	208	207	207	207	187	180	180
Platte Co (Parkville)	38	38	38	38	38	38	39	39	39	39	39	40
Warrensburg	149	149	149	150	152	153	153	153	154	154	154	154
Brunswick	6	6	6	6	6	6	6	7	7	7	7	7
St. Charles	65	65	65	68	68	68	69	69	69	69	69	67
Mexico	87	87	87	103	100	100	101	101	103	86	85	85
Joplin	145	145	147	147	146	146	146	146	145	145	145	145
Jefferson City	272	274	273	273	276	276	276	275	275	275	277	270
Total	1,615	1,622	1,658	1,683	1,690	1,695	1,696	1,696	1,697	1,666	1,656	1,652

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	676	672	672	672	672	670	670	679	679	678	676	677
St. Joseph	176	176	199	202	202	203	203	202	202	190	182	177
Platte Co (Parkville)	38	37	37	37	36	36	37	37	39	39	39	38
Warrensburg	139	140	141	140	150	150	150	150	149	149	150	149
Brunswick	6	6	6	6	6	6	6	6	6	6	6	6
St. Charles	65	65	65	68	68	68	68	68	68	68	65	65
Mexico	85	85	85	102	102	103	103	103	103	92	88	87
Joplin	141	141	141	141	141	142	143	145	145	143	143	145
Jefferson City	274	274	273	279	277	277	278	279	280	278	274	271
Total	1,600	1,596	1,619	1,647	1,654	1,655	1,658	1,669	1,671	1,643	1,623	1,615

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2004

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	635	633	1,263	660	660	1,303	679	678	678	678	676	676
St. Joseph	166	168	183	194	195	197	197	198	200	192	175	176
Platte Co (Parkville)	36	36	37	37	37	37	37	37	37	37	37	37
Warrensburg	141	139	139	140	140	140	139	142	142	141	140	139
Brunswick	6	6	6	6	6	6	6	6	6	6	6	6
St. Charles	65	65	65	67	68	68	68	68	68	68	68	66
Mexico	83	83	97	98	99	99	99	99	99	100	100	84
Joplin	136	136	136	136	136	141	141	141	142	142	140	140
Jefferson City	276	276	276	276	280	281	280	281	279	280	274	275
Total	1,544	1,542	2,202	1,614	1,621	2,272	1,646	1,650	1,651	1,644	1,616	1,599

2003

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	688	589	589	592	589	587	590	591	589	590	635	635
St. Joseph	171	170	170	195	197	198	199	199	195	178	169	167
Platte Co (Parkville)	48	35	35	35	36	35	35	35	35	36	36	36
Warrensburg	138	139	139	142	143	143	143	143	143	142	140	141
Brunswick	6	6	6	6	6	6	6	6	6	6	6	6
St. Charles	62	67	67	67	68	68	68	68	68	68	67	67
Mexico	83	81	84	101	102	101	103	103	103	103	83	82
Joplin	137	137	137	138	138	139	139	140	137	137	137	136
Jefferson City	43	42	44	44	277	275	274	275	276	276	275	274
Total	1,376	1,266	1,271	1,320	1,556	1,552	1,557	1,560	1,552	1,536	1,548	1,544

2002

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	683	684	682	684	683	684	685	684	682	585	592	590
St. Joseph	172	171	174	198	198	197	198	198	194	176	175	172
Platte Co (Parkville)	47	47	48	48	48	48	49	49	49	49	49	49
Warrensburg	134	134	134	135	135	134	134	134	138	139	136	136
Brunswick	6	6	6	6	6	6	6	6	6	6	6	6
St. Charles	64	64	63	64	64	65	65	64	64	63	60	60
Mexico	87	87	89	92	103	106	107	107	107	104	83	83
Joplin	139	139	138	138	140	138	139	139	140	140	137	137
Jefferson City	38	38	39	39	43	43	43	43	43	43	43	43
Total	1,370	1,370	1,373	1,404	1,420	1,421	1,426	1,424	1,423	1,305	1,281	1,276

2001

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	1,458	782	736	1,114	769	767	699	740	722	652	580	680
St. Joseph	180	180	195	205	205	207	208	208	203	188	174	171
Platte Co (Parkville)	48	48	48	48	47	50	50	50	50	50	47	47
Warrensburg	135	136	135	135	135	136	136	136	136	137	135	134
Brunswick	7	7	7	7	7	7	7	7	7	7	6	6
St. Charles	63	64	65	65	69	66	66	67	67	68	65	65
Mexico	87	87	87	88	104	105	105	105	105	106	90	87

Joplin	147	147	148	148	148	148	148	148	149	149	149	138
Jefferson City	43	43	43	43	43	43	43	43	43	43	39	38
Total	2,168	1,494	1,464	1,853	1,527	1,529	1,462	1,504	1,482	1,400	1,274	1,366

Other Water Utilities Customer Counts
2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6			
St. Joseph	10	10	10	10	10	10	10	10	10			
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3			
Warrensburg	2	2	2	2	2	2	2	2	2			
Brunswick	1	1	1	1	1	1	1	1	1			
Mexico	2	2	2	2	2	2	2	2	2			
Joplin	4	4	4	4	4	4	4	4	4			
Total	28	28	28	28	28	28	28	28	28			

2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6	6	6	6
St. Joseph	10	10	10	10	10	10	10	10	10	10	10	10
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	28	28	28	28	28	28	28	28	28	28	28	28

2013

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	5	5	5	6	6	6	6
St. Joseph	10	10	10	10	10	10	10	10	10	10	10	10
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	28	28	28	28	26	27	27	27	28	28	28	28

2012

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6	6	6	6
St. Joseph	10	10	10	10	10	10	10	10	10	10	10	10
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	28	28	28	28	28	28	28	28	28	28	28	28

2011

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6	6	6	6
St. Joseph	10	10	10	10	10	10	10	10	10	10	10	10
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	28	28	28	28	28	28	28	28	28	28	28	28

2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6	6	6	6
St. Joseph	10	10	10	10	10	10	10	10	10	10	10	10
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	28	28	28	28	28	28	28	28	28	28	28	28

2009

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6	6	6	6
St. Joseph	10	10	10	10	10	10	10	10	10	10	10	10
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	28	28	28	28	28	28	28	28	28	28	28	28

2008

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6	6	6	6
St. Joseph	10	10	10	10	10	10	10	10	10	10	10	10
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	28	28	28	28	28	28	28	28	28	28	28	28

2007

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6	6	6	6
St. Joseph	10	10	10	10	10	10	10	10	10	10	10	10
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	28	28	28	28	28	28	28	28	28	28	28	28

2006

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6	6	6	6
St. Joseph	11	11	11	11	11	11	10	10	10	10	10	10
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	29	29	29	29	29	29	28	28	28	28	28	28

2005

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	6	6	6	6	6	6	6	6	6	6	6	6
St. Joseph	11	11	11	11	11	11	11	11	11	11	11	11
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	4	4	4	4	4	4	4	4	4	4	4	4
Total	29	29	29	29	29	29	29	29	29	29	29	29

2004

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	5	5	6	6	6	6	6	6	6	6	6	6
St. Joseph	11	11	11	11	11	11	11	11	11	11	11	11
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	9	9	9	9	9	9	9	4	4	4	4	4
Total	33	33	34	34	34	34	34	29	29	29	29	29

2003

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	12	5	5	5	5	5	5	5	5	5	5	5
St. Joseph	11	11	11	11	11	11	11	11	11	11	11	11
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	9	9	9	9	9	9	9	9	9	9	9	9
Total	40	33	33	33	33	33	33	33	33	33	33	33

2002

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County	23	23	19	11	11	11	11	11	12	5	5	5
St. Joseph	11	11	11	11	11	11	11	11	11	11	11	11
Platte Co (Parkville)	3	3	3	3	3	3	3	3	3	3	3	3
Warrensburg	2	2	2	2	2	2	2	2	2	2	2	2
Brunswick	1	1	1	1	1	1	1	1	1	1	1	1
Mexico	2	2	2	2	2	2	2	2	2	2	2	2
Joplin	9	9	9	9	9	10	10	10	9	9	9	9
Total	51	51	47	39	39	40	40	40	40	33	33	33

2001

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
St. Louis County											6	23
St. Joseph											11	11
Platte Co (Parkville)											3	3
Warrensburg											2	2
Brunswick											1	1
Mexico											2	2
Joplin											9	9
Total	-	-	-	-	-	-	-	-	-	-	34	51