

2016 WASHINGTON/OREGON WATER & WASTEWATER RATE SURVEY





Foreword

The 2016 Washington/Oregon Water and Wastewater Rate Survey conducted by Raftelis Financial Consultants, Inc. (RFC) provides a description of water and wastewater rates and charges in the states of Washington and Oregon. RFC conducts a biennial national water and wastewater rate survey in partnership with the American Water Works Association (AWWA), a nonprofit professional association dedicated to providing high-quality technical information to its water utility members and general public. RFC also conducts a biennial water rate survey in California and Nevada in collaboration with the California-Nevada section of AWWA, as well as water rate surveys in Florida and Arizona. RFC is nationally recognized for its financial and management consulting practice for water, wastewater, and stormwater utilities.

The 2016 survey provides valuable insights into pricing practices embraced by utilities across Washington and Oregon. Specifically included in this year's survey are:

- » A total of 66 Washington water and wastewater agencies and 50 Oregon agencies with diverse ownership and operating characteristics
- » Rate calculations and pertinent data grouped by county and sorted by city

This survey is also a powerful tool for comparative benchmarking. Drawing conclusions from rate comparisons, however, should be done only after evaluating several community characteristics, such as geography, climate, and service area, as well as the use of taxes, subsidies, and grants. The determinants of utility rates are varied and complex and do not necessarily reflect the true cost of service. A low rate or a high rate does not necessarily mean that a utility is more or less efficient, respectively. As a result, the survey findings alone should not be used to judge the performance of any individual utility or to generalize about all water-sector utilities. In addition, our rate survey uses a sample that is not statistically random. Even with these constraints, the information contained in this survey is beneficial to utilities throughout Washington and Oregon. At a minimum, it can be used to identify utilities that have similar characteristics to include in a more in-depth benchmarking effort.

The reliability of the information received for this survey is dependent upon the accuracy of the data we collected from the agencies. Please notify us if you have any updates or corrections to the information.

Sincerely,

RAFTELIS FINANCIAL CONSULTANTS, INC.



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Factors Affecting Rates



Growing
Infrastructure
Needs



Increasing
Regulatory
Stringency



Decreasing
Per Capita
Consumption



Technological
Improvements



Effective
Utility
Management



Political
Actions

Because water and wastewater rates are of immense public interest, legislative bodies entrusted with reviewing and approving rates are very sensitive to adjusting rates. From our work with many water-industry utilities, we have identified six factors that can affect water and wastewater rates and charges. Half of these factors are driving water and wastewater rates higher, while the other half have a lowering effect on rates. Because the factors that are increasing rates have had a much greater impact in recent years, water and wastewater rates have increased faster than the overall rate of inflation.

The following page describes each factor, how it influences rates, and its expected impact over the next 5 to 10 years. It should be noted that these are not the only factors affecting rates, but those that we believe are particularly relevant to water and wastewater utilities.



GROWING INFRASTRUCTURE NEEDS: Much of the original water infrastructure in the Northwestern United States is going to need replacement in the near future. In many cases, this will be the first time that utilities will face significant capital needs that are not funded by growth in the customer base. In addition, this existing infrastructure repair and replacement will likely be more costly than placing comparable new infrastructure in service in undeveloped areas. This factor is going to significantly impact utilities in the coming years and will likely be a major driver of rate increases.



INCREASING REGULATORY STRINGENCY: While it is unclear how water regulations will be promulgated in the future, it is our expectation that standards will continue to become more stringent. As the ability to measure water quality improves and technology for producing “cleaner” potable water and effluent advances, regulations will inevitably follow, and utilities will need to spend resources to acquire the new technology and/or reconfigure existing treatment processes. We believe that increasing regulatory stringency driven by these advances in technology will drive rates higher.



DECREASING PER CAPITA CONSUMPTION: An increasing number of the utilities that we serve are facing declining per capita consumption. We believe there are two primary reasons for this trend. The first reason is that each generation of new home appliances is characterized by increasing water efficiency. The second reason is that the conservation message has been internalized by much of the population. Nowadays, while we brush our teeth or shave our face, many of us don’t let the water run like we once did. We believe this shift has been accomplished through public education efforts and often reinforced by the pricing structure. In addition, many utilities have faced droughts or capacity issues due to growth, which has forced additional efforts to reduce per capita consumption. We believe that while this factor will continue to impact rates in the future, its impact will diminish over time because there is a level below which per capita consumption will not drop.



TECHNOLOGICAL IMPROVEMENTS: As we mentioned earlier, water and wastewater treatment technology is constantly improving. Certain technological improvements have a lowering impact on rates. Supervisory control and data acquisition (SCADA) systems allow for operations with fewer employees and help to minimize power loads. As a result, the cost of producing potable water and treating wastewater is decreasing with all other variables remaining the same. We believe technology will continue to improve and benefit customers.



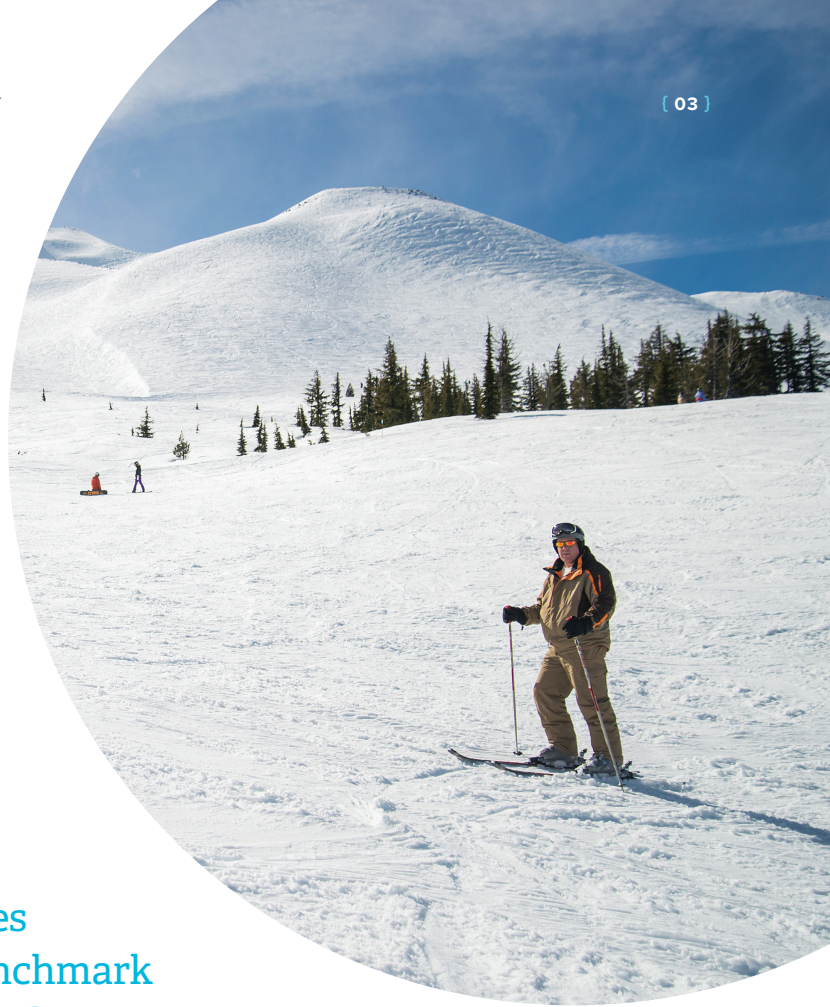
EFFECTIVE UTILITY MANAGEMENT: Municipal utilities no longer see themselves as governmental monopolies. Elected officials and governing boards increasingly require utilities to operate as efficiently as possible. The growth of contractor operations has also caused utilities to become more efficient. In fact, many utilities have gone through some sort of formal optimization process. We believe that these efforts will continue to have a lowering effect on water rates.



POLITICAL ACTIONS: The strongest force in limiting rate increases has been the political process. Whereas optimization efforts are beneficial to the utility, politically limited rate increases may not be. It would be unfair to say that political influence does not have some positive effects, as it does often force utilities to be as efficient as possible. However, when a rate increase is obviously needed and that increase is not allowed due to political issues, there can be severe future ramifications. We believe this will continue to have a significant impact on limiting rate increases.

Overview of the Survey

The survey provides data on 116 water and wastewater service providers (66 in Washington and 50 in Oregon). Because water usage varies widely among cities and regions, a benchmark water usage amount is needed to provide a basis to compare water and wastewater rates. This survey relies on 15 ccf (hundred cubic feet), or 11,220 gallons, of water consumption per month and 8 ccf, or 5,984 gallons, of wastewater flow as that benchmark.



WASHINGTON RATE SURVEY RESULTS

56 AGENCIES IN WASHINGTON REPORTED WATER RATES IN THE 2016 SURVEY, AND 55 AGENCIES REPORTED WASTEWATER RATES.



WATER BILLING FREQUENCY

As shown in Figure A, 49% of the agencies in our sample bill monthly, and roughly 51% have a bi-monthly rate structure. In our experience, monthly billing is becoming more popular as it helps convey information on consumption and pricing to the agency's customer base faster. Also, as rates increase and bills get larger, customers may find it easier to pay smaller monthly bills than larger bi-monthly bills.

WATER RATE STRUCTURE

Figure B demonstrates that inclining and uniform rate structures combine to constitute approximately 93% (35% uniform and 58% inclining) of the rate structures among utilities in this year's survey. The "other" category includes rate structures such as flat and seasonal. While uniform, inclining, and declining rate structures are well known and have been in use by agencies for many years, the number of agencies utilizing water budget-based rate structures is increasing, especially in agencies that target water conservation and efficiency. Water budget-based rate structures are a type of inclining rate structure in which the block definition is different for each customer based on an efficient level of water use by that customer. The tiers are typically set based on efficient indoor and outdoor use allocations. Please contact RFC if you need additional information on rate structures.

WATER CHARGES

Figure C displays the year in which the 2016 survey's utilities have most recently updated their rates. A clear majority of respondents, 83%, have updated their rates within the past two years (2014 and 2015).

As mentioned previously, all charges in this survey are based on the assumption that the utility residential customer uses 15 ccf¹, or 11,220 gallons, per month. For utilities that do not bill monthly, the charge was calculated on the assumption of 15 ccf per month usage. It should be noted that the average usage can vary significantly from agency to agency. Thus, an agency with a lower average usage than 15 ccf per month will have higher bills since the rate structure of that agency was designed for their level of usage.

Figure D shows the average monthly water charges for 15 ccf by county. Based on our survey, the highest charges are found in Island County, while the lowest charges are in Spokane County. Only one agency responded for Island County.

FIGURE A:
2015 WATER BILLING FREQUENCY

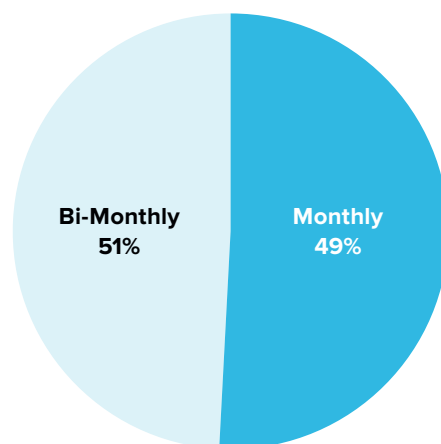


FIGURE B:
2015 WATER RATE STRUCTURE

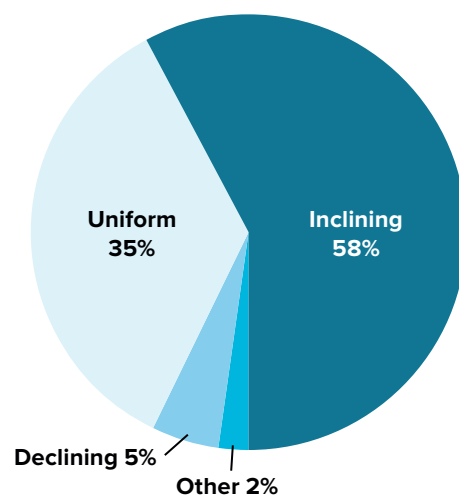
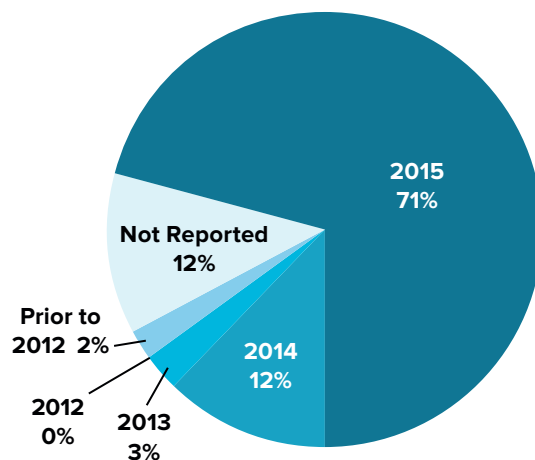
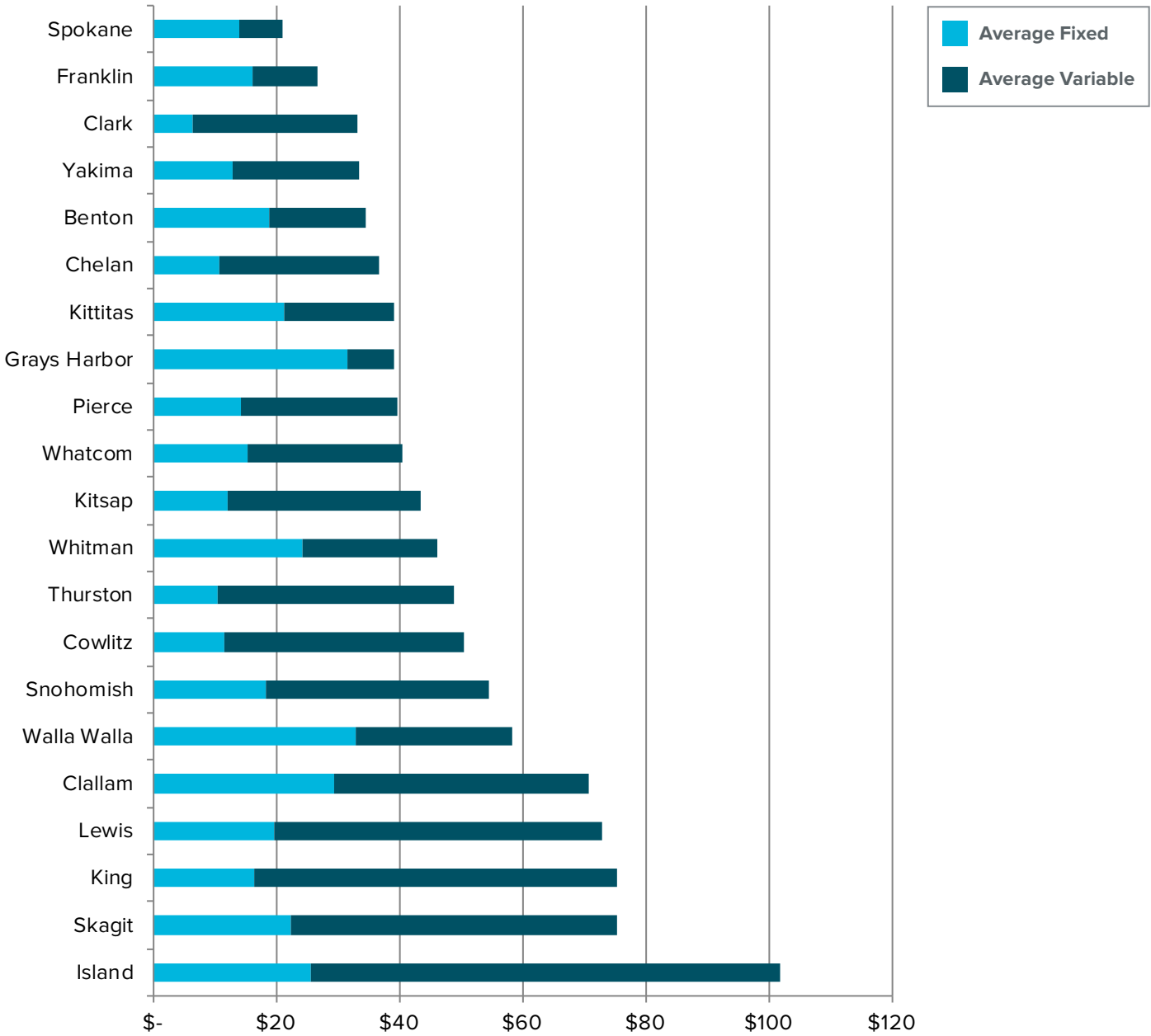


FIGURE C:
RATE UPDATE FREQUENCY



¹1 ccf = 100 cubic feet = 748 gallons of water

FIGURE D:
2015 AVERAGE MONTHLY WATER CHARGES COMPARISON BY COUNTY



**For Spokane County, utilities with no variable charge were not included in "average variable" charge calculation.*

FIGURE E:
2015 WASTEWATER
BILLING FREQUENCY

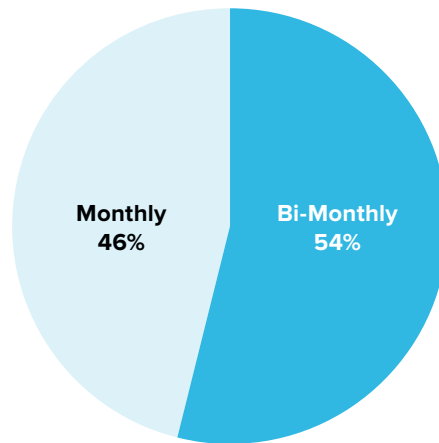


FIGURE F:
2015 WASTEWATER RATE STRUCTURE

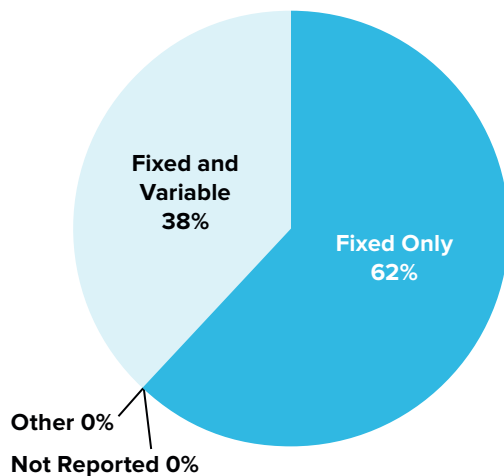
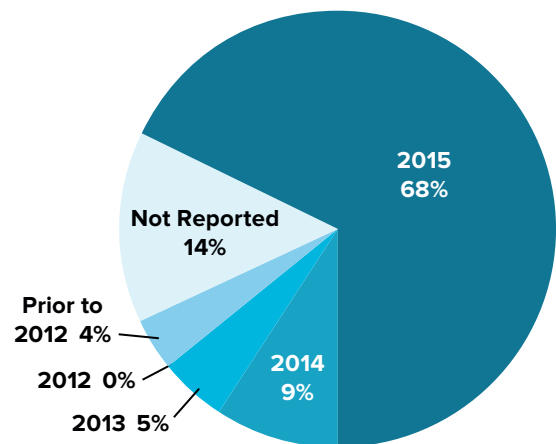


FIGURE G:
RATE UPDATE FREQUENCY



WASTEWATER BILLING FREQUENCY

As shown in Figure E, 46% of the agencies in our sample bill monthly, and roughly 54% have a bi-monthly rate structure.

WASTEWATER RATE STRUCTURE

Figure F demonstrates that fixed rate structures and fixed and variable rate structures combine to constitute 100% (62% fixed only and 38% fixed and variable) of the rate structures among utilities in this year's survey.

WASTEWATER CHARGES

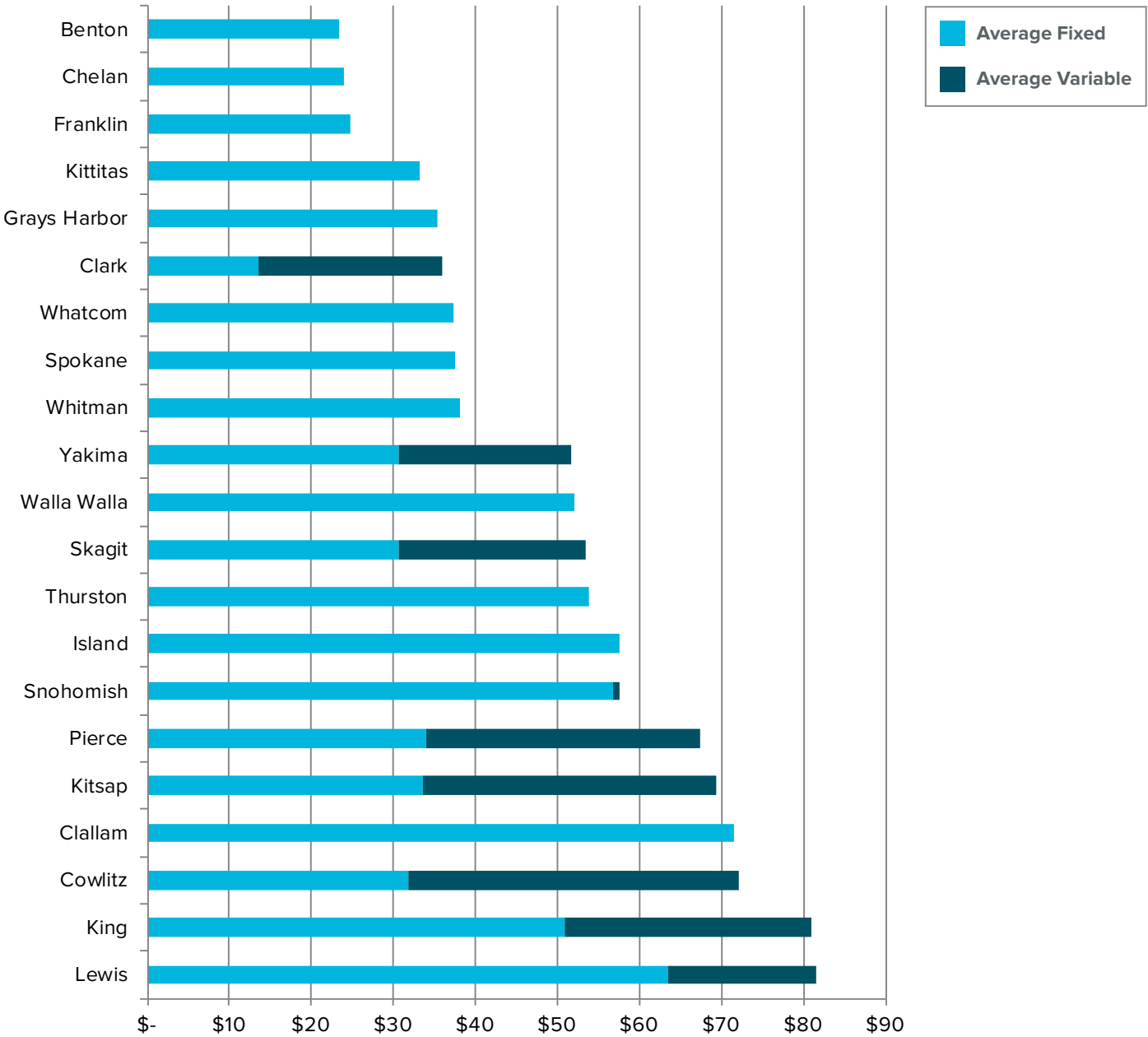
Figure G displays the year in which the 2016 survey's utilities have most recently updated their rates. A

clear majority of respondents, 77%, have updated their rates within the past two years (2014 and 2015).

As mentioned previously, all charges in this survey are based on the assumption that the utility residential customer uses 8 ccf, or 5,984 gallons, per month. For utilities that do not bill monthly, the charge was calculated on the assumption of 8 ccf per month usage.

Figure H shows the average monthly wastewater charges for 8 ccf by county. Based on our survey, the highest charges are found in Lewis County, while the lowest charges are in Benton County. Only one agency responded for Lewis County.

FIGURE H:
2015 AVERAGE MONTHLY WASTEWATER CHARGES COMPARISON BY COUNTY



**For King, Pierce, and Snohomish Counties, utilities with no variable charge were not included in "average variable" charge calculation.*

OREGON RATE SURVEY RESULTS

41 AGENCIES IN OREGON REPORTED WATER RATES IN THE 2016 SURVEY, AND 41 AGENCIES REPORTED WASTEWATER RATES.



WATER BILLING FREQUENCY

As shown in Figure I, a large majority, 81%, of the utility survey's respondents has a monthly billing structure. Monthly billing is predominantly becoming more popular as it helps convey information on consumption and pricing to the agency's customer base faster. Also, as rates increase and bills get larger, customers may find it easier to pay smaller monthly bills than larger bi-monthly bills.

WATER RATE STRUCTURE

Figure J demonstrates that inclining and uniform rate structures combine to constitute approximately 93% (48% uniform and 45% inclining) of the rate structures among utilities in this year's survey. While uniform, inclining, and declining rate structures are well known and have been in use by agencies for many years, the number of agencies utilizing water budget-based rate structures is increasing, especially in agencies that target water conservation and efficiency. Water budget-based rate structures are a type of inclining rate structure in which the block definition is different for each customer based on an efficient level of water use by that customer. The tiers are typically set based upon efficient indoor and outdoor use allocations. Please contact RFC if you need additional information on rate structures.

WATER CHARGES

Figure K displays the year in which the 2016 survey's utilities have most recently updated their rates. A clear majority of respondents, 81%, have updated their rates within the past two years (2014 and 2015).

As in the Washington Rate Survey Results section, all charges in this survey are based on the assumption that the utility customer uses 15 ccf, or 11,220 gallons, per month. For utilities that do not bill monthly, the charge was calculated on the assumption of 15 ccf per month usage. It should be noted that the average usage can vary significantly from agency to agency. Thus, an agency with a lower average usage than 15 ccf per month will have higher bills since the rate structure of that agency was designed for their level of usage.

Figure L shows the average monthly water charges for 15 ccf by county. Based on our survey, the highest charges are found in Columbia County, while the lowest charges are in Malheur County. Only one agency responded for Columbia County.

FIGURE I:
2015 WATER BILLING FREQUENCY

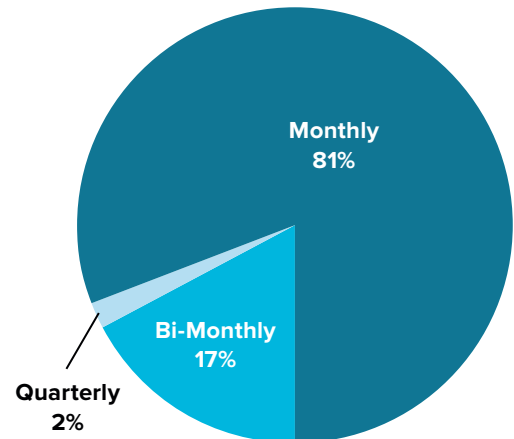


FIGURE J:
2015 WATER RATE STRUCTURE

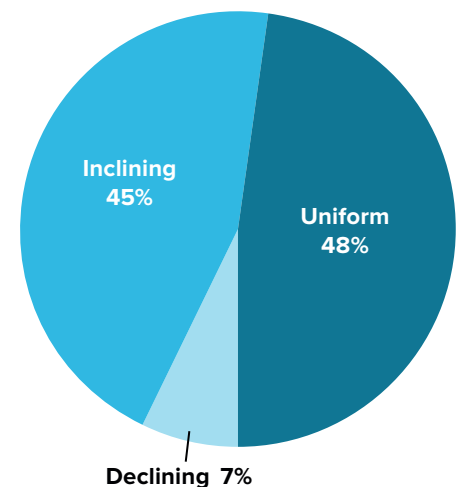
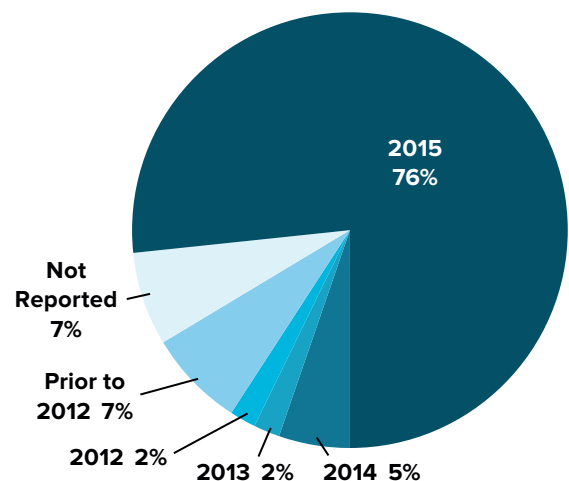
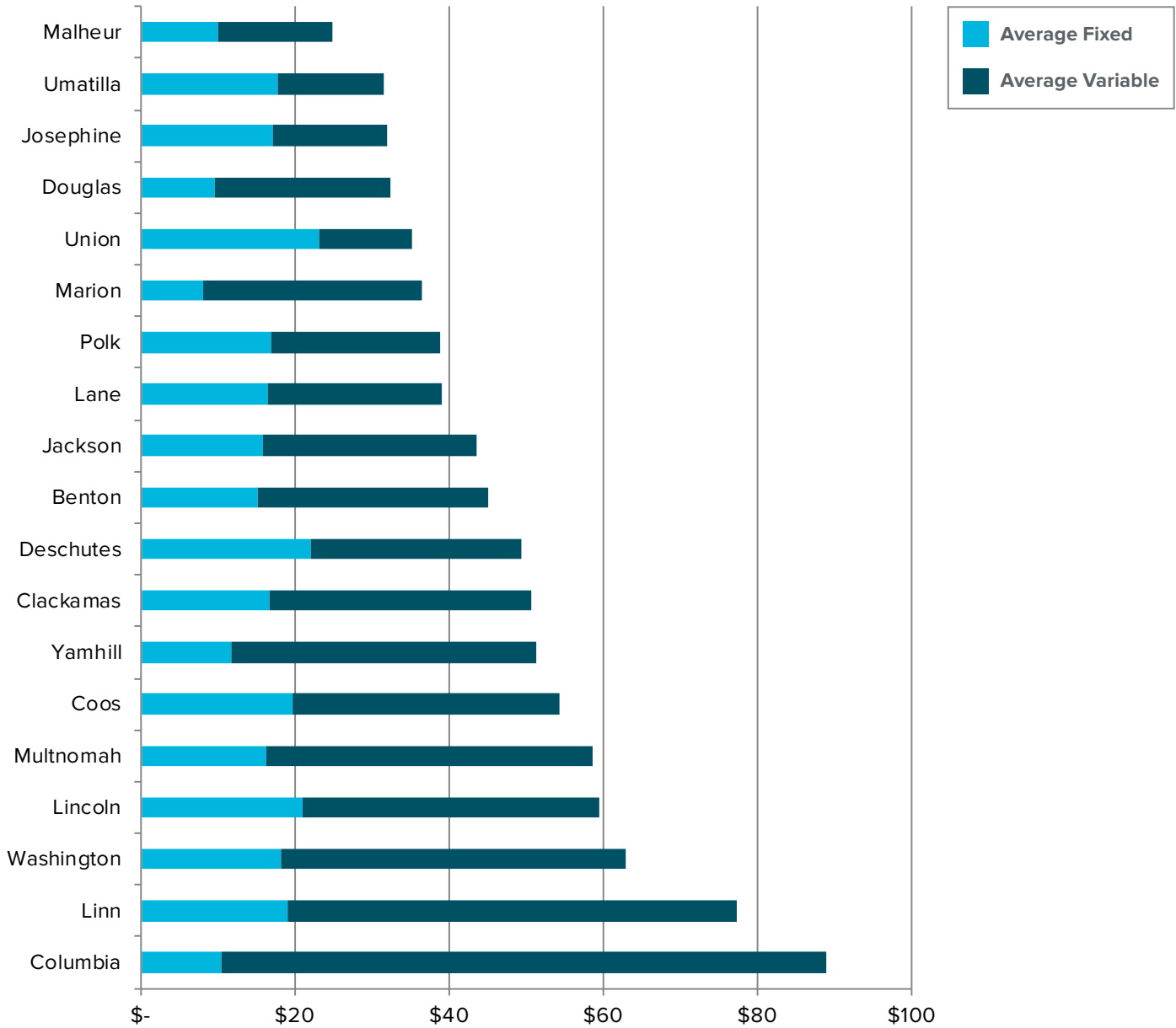


FIGURE K:
RATE UPDATE FREQUENCY



**Sums in Figure K do not add to 100% due to rounding*

FIGURE L:
2015 AVERAGE MONTHLY WATER CHARGES COMPARISON BY COUNTY



**For Multnomah County, utilities with no fixed charge were not included in "average fixed" charge calculation.*

FIGURE M:
2015 WASTEWATER
BILLING FREQUENCY

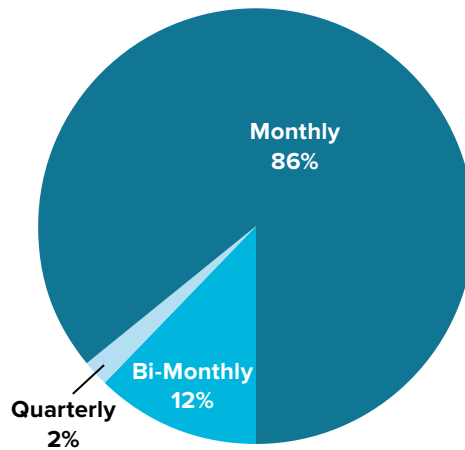


FIGURE N:
2015 WASTEWATER RATE STRUCTURE

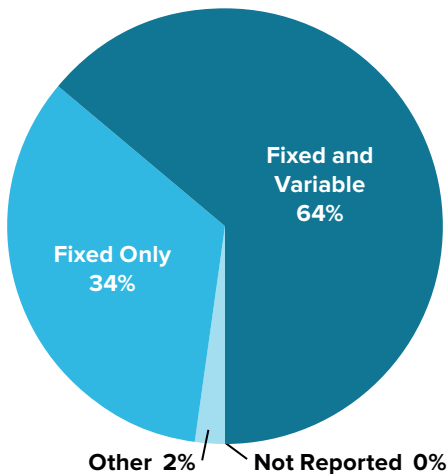
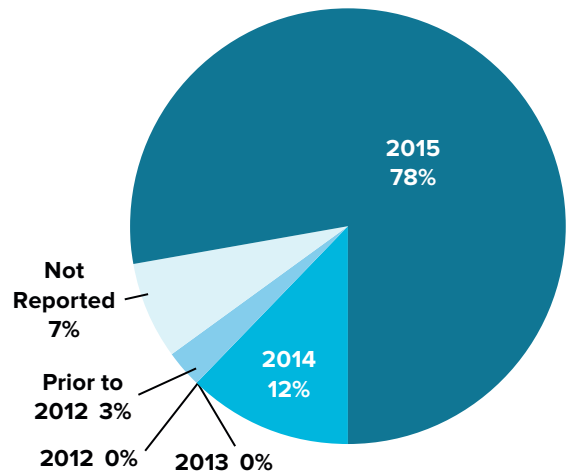


FIGURE O:
RATE UPDATE FREQUENCY



WASTEWATER BILLING FREQUENCY

As shown in Figure M, a large majority, 86%, of the utility survey's respondents has a monthly billing structure.

WASTEWATER RATE STRUCTURE

Figure N demonstrates that fixed rate structures and fixed and variable rate structures combine to constitute 98% (34% fixed only and 64% fixed and variable) of the rate structures among utilities in this year's survey.

WASTEWATER CHARGES

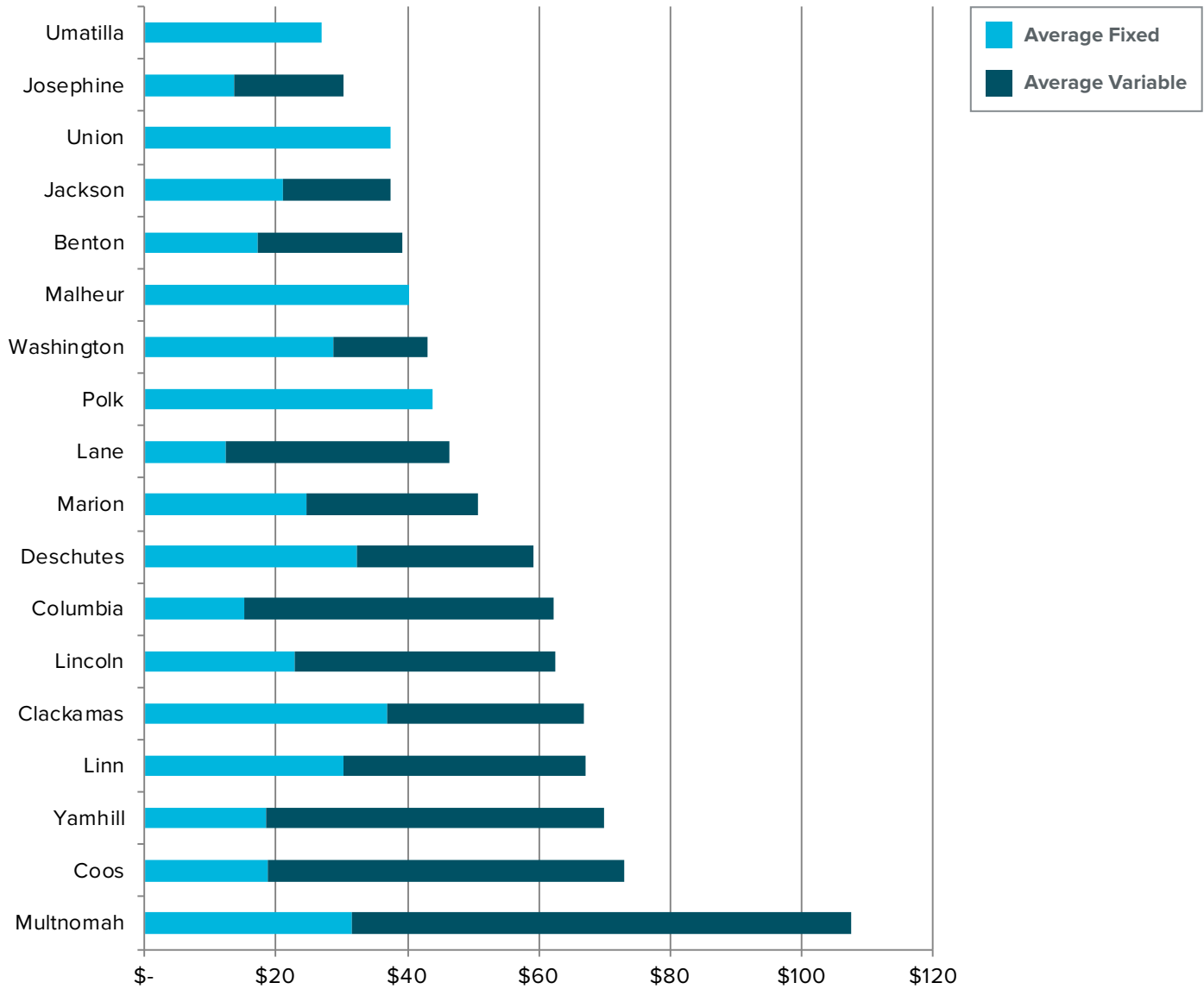
Figure O displays the year in which the 2016 survey's

utilities have most recently updated their rates. A clear majority of respondents, 90%, have updated their rates within the past two years (2014 and 2015).

As in the Washington section, all charges below are based on the assumption that the utility customer uses 8 ccf, or 5,984 gallons, per month. For utilities that do not bill monthly, the charge was calculated on the assumption of 8 ccf per month usage.

Figure P shows the average monthly wastewater charges for 8 ccf by county. Based on our survey, the highest charges are found in Multnomah County, while the lowest charges are in Umatilla County.

FIGURE P:
2015 AVERAGE MONTHLY WASTEWATER CHARGES COMPARISON BY COUNTY



**For Multnomah County, utilities with no fixed charge were not included in "average fixed" charge calculation.*

***For Union, Umatilla, Polk, Clackamas, Jackson, Malheur, and Multnomah Counties, utilities with no variable charge were not included in "average variable" charge calculation.*

Washington Water Survey Participants

County	City	Water Service Provider	Effective Date	Billing Frequency	Fixed Charge	Commodity Charge*	Total Charge	Rate Format
BENTON	Kennewick	City of Kennewick	1/1/2015	Bi-Monthly	10.27	17.51	27.78	Uniform
	Richland	City of Richland	4/1/2015	Monthly	27.25	14.25	41.50	Uniform
CHELAN	Wenatchee	City of Wenatchee's Water Resource Division		Bi-Monthly	10.68	25.95	36.63	Uniform
CLALLAM	Port Angeles	City of Port Angeles	1/1/2015	Monthly	29.26	41.35	70.61	Inclining
CLARK	Vancouver	City of Vancouver	1/1/2015	Bi-Monthly	6.35	26.70	33.05	Uniform
COWLITZ	Longview	City of Longview		Monthly	11.45	39.02	50.47	Inclining
FRANKLIN	Pasco	City of Pasco	4/1/2015	Monthly	16.25	10.50	26.75	Uniform
GRAYS HARBOR	Aberdeen	City of Aberdeen	10/1/2015	Monthly	31.58	7.56	39.14	Declining
ISLAND	Oak Harbor	City of Oak Harbor	12/20/2014	Monthly	25.50	76.20	101.70	Inclining
KING	Auburn	City of Auburn	1/1/2015	Monthly	15.05	50.13	65.18	Inclining
	Bellevue	City of Bellevue	1/1/2015	Bi-Monthly	20.10	63.57	83.67	Inclining
	Bothell	City of Bothell		Bi-Monthly	12.01	51.50	63.51	Inclining
	Burien	Highline Water District	1/1/2015	Monthly	14.40	53.25	67.65	Uniform
	Covington	Covington Water District	3/6/2015	Bi-Monthly	21.50	67.85	89.35	Inclining
	Des Moines	Highline Water District	1/1/2015	Monthly	14.40	53.25	67.65	Uniform
	Federal Way	Lakehaven Utility District	1/1/2015	Bi-Monthly	12.35	31.73	44.08	Inclining
	Issaquah	City of Issaquah	12/1/2011	Bi-Monthly	12.78	81.35	94.13	Inclining
	Kenmore	Northshore Utility District	3/15/2015	Bi-Monthly	15.00	63.75	78.75	Inclining
	Kent	City of Kent		Bi-Monthly	13.10	55.60	68.70	Inclining
	Kirkland	City of Kirkland	12/1/2014	Bi-Monthly	19.05	63.70	82.75	Inclining
	Maple Valley	Covington Water District	3/6/2015	Bi-Monthly	21.50	67.85	89.35	Inclining
	Maple Valley	Cedar River Water & Sewer District	11/18/2014	Monthly	16.23	55.35	71.58	Inclining
	Mercer Island	City of Mercer Island		Bi-Monthly	13.20	74.05	87.25	Inclining
	Redmond	City of Redmond	1/1/2015	Bi-Monthly	13.80	52.70	66.50	Inclining
	Renton	City of Renton	1/1/2015	Monthly	17.60	52.12	69.72	Inclining
	Sammamish	Sammamish Plateau Water & Sewer District	7/20/2015	Bi-Monthly	25.89	33.60	59.49	Inclining
	Seatac	King County Water District #125	2/21/2015	Bi-Monthly	13.00	54.06	67.06	Inclining
	Seattle	Seattle Public Utilities	1/1/2014	Bi-Monthly	13.75	74.85	88.60	Uniform
	Shoreline	Seattle Public Utilities	1/1/2014	Monthly	16.70	90.75	107.45	Uniform

County	City	Water Service Provider	Effective Date	Billing Frequency	Fixed Charge	Commodity Charge*	Total Charge	Rate Format
KING	Shoreline	North City Water District		Bi-Monthly	25.71	59.37	85.08	Inclining
	Tukwila	City of Tukwila	1/1/2015	Monthly	16.00	42.00	58.00	Uniform
KITSAP	Bremerton	City of Bremerton	1/1/2015	Monthly	12.11	31.35	43.46	Uniform
KITTITAS	Ellensburg	City of Ellensburg	1/1/2015	Monthly	21.17	17.93	39.10	Inclining
LEWIS	Centralia	City of Centralia	1/1/2015	Monthly	19.51	53.40	72.91	Inclining
PIERCE	Bonney Lake	City of Bonney Lake	1/1/2015	Monthly	14.71	24.25	38.96	Inclining
	Lakewood	Lakewood Water District	1/1/2015	Bi-Monthly	14.79	16.98	31.77	Inclining
	Puyallup	City of Puyallup	2/1/2015	Bi-Monthly	8.16	35.51	43.67	Inclining
	Tacoma	Tacoma Public Utilities	4/1/2015	Monthly	19.60	24.68	44.28	Uniform
SKAGIT	Mount Vernon	Skagit Public Utility District	1/1/2015	Bi-Monthly	22.35	52.91	75.26	Other
SNOHOMISH	Arlington	City of Arlington	1/15/2013	Monthly	32.15	36.08	68.23	Inclining
	Edmonds	Edmonds Utilities	1/1/2015	Bi-Monthly	13.16	41.10	54.26	Uniform
	Everett	City of Everett	7/1/2015	Bi-Monthly	18.95	37.90	56.85	Uniform
	Lake Stevens	Snohomish County Public Utility District	1/1/2015	Monthly	21.64	49.65	71.29	Uniform
	Lynnwood	City of Lynnwood	1/1/2015	Bi-Monthly	19.38	22.20	41.58	Inclining
	Marysville	City of Marysville	1/1/2015	Bi-Monthly	10.90	36.92	47.82	Inclining
	Mill Creek	Alderwood Water & Wastewater District	10/1/2013	Bi-Monthly	14.95	35.20	50.15	Inclining
	Monroe	City of Monroe	1/1/2015	Monthly	22.92	30.25	53.17	Uniform
	Mukilteo	Mukilteo Water and Wastewater District	1/1/2015	Bi-Monthly	11.70	35.86	47.56	Uniform
	Spokane	City of Spokane	1/1/2015	Monthly	14.92	8.19	23.11	Inclining
SPOKANE	Spokane Valley	Modern Electric Water Company	10/1/2015	Monthly	10.95	6.00	16.95	Uniform
	Spokane Valley	Vera Water & Power	1/1/2014	Monthly	16.00	0.00	16.00	Declining
	Lacey	City of Lacey	1/1/2015	Monthly	13.41	32.46	45.87	Inclining
THURSTON	Olympia	City of Olympia	1/1/2015	Bi-Monthly	10.96	46.67	57.63	Inclining
	Tumwater	City of Tumwater		Monthly	7.32	35.73	43.05	Inclining
	Walla Walla	City of Walla Walla	1/1/2015	Monthly	32.90	25.50	58.40	Uniform
WHATCOM	Bellingham	City of Bellingham	1/1/2015	Bi-Monthly	15.42	25.05	40.47	Uniform
WHITMAN	Pullman	City of Pullman	11/1/2015	Monthly	24.25	22.00	46.25	Inclining
YAKIMA	Sunnyside	City of Sunnyside	1/1/2015	Monthly	16.88	19.35	36.23	Declining
	Yakima	City of Yakima	1/1/2014	Bi-Monthly	8.77	21.90	30.67	Uniform

*Commodity charge based on the usage of 15 ccf, or 11,220 gallons, per month

Washington Wastewater Survey Participants

County	City	Water Service Provider	Effective Date	Billing Frequency	Fixed Charge	Commodity Charge*	Total Charge	Rate Format
BENTON	Kennewick	City of Kennewick	1/1/2015	Bi-Monthly	21.22	0.00	21.22	Fixed Only
	Richland	City of Richland	1/1/2010	Monthly	25.60	0.00	25.60	Fixed Only
CHELAN	Wenatchee	City of Wenatchee's Water Resource Division		Bi-Monthly	23.92	0.00	23.92	Fixed Only
CLALLAM	Port Angeles	City of Port Angeles	1/1/2015	Monthly	71.45	0.00	71.45	Fixed Only
CLARK	Vancouver	City of Vancouver	1/1/2015	Bi-Monthly	13.47	22.45	35.92	Fixed and Variable
COWLITZ	Longview	City of Longview		Monthly	31.85	40.32	72.17	Fixed and Variable
FRANKLIN	Pasco	City of Pasco	4/1/2015	Monthly	24.80	0.00	24.80	Fixed Only
GRAYS HARBOR	Aberdeen	City of Aberdeen	10/1/2015	Monthly	35.37	0.00	35.37	Fixed Only
ISLAND	Oak Harbor	City of Oak Harbor	12/20/2014	Monthly	57.50	0.00	57.50	Fixed Only
KING	Auburn	City of Auburn	1/1/2015	Monthly	65.72	0.00	65.72	Fixed Only
	Bellevue	City of Bellevue	1/1/2015	Bi-Monthly	42.03	29.12	71.15	Fixed and Variable
	Bothell	City of Bothell		Bi-Monthly	56.76	22.56	79.32	Fixed and Variable
	Burien	Southwest Suburban Sewer District	1/1/2015	Bi-Monthly	29.50	0.00	29.50	Fixed Only
	Covington	Soos Creek Water & Sewer District		Bi-Monthly	59.53	0.00	59.53	Fixed Only
	Des Moines	Midway Sewer District	1/1/2015	Bi-Monthly	25.00	0.00	25.00	Fixed Only
	Federal Way	Lakehaven Utility District	1/1/2015	Bi-Monthly	12.41	36.80	49.21	Fixed and Variable
	Issaquah	City of Issaquah	12/1/2014	Bi-Monthly	43.76	17.36	61.12	Fixed and Variable
	Kenmore	Northshore Utility District	3/15/2015	Bi-Monthly	56.70	1.88	58.58	Fixed and Variable
	Kent	City of Kent	1/1/2015	Monthly	60.71	0.00	60.71	Fixed Only
	Kirkland	City of Kirkland	12/1/2014	Bi-Monthly	55.05	21.70	76.75	Fixed and Variable
	Maple Valley	Soos Creek Water & Sewer District		Bi-Monthly	59.53	0.00	59.53	Fixed Only
	Mercer Island	City of Mercer Island		Bi-Monthly	59.15	28.55	87.70	Fixed and Variable
	Redmond	City of Redmond	1/1/2015	Bi-Monthly	55.93	0.00	55.93	Fixed Only
	Renton	City of Renton	1/1/2015	Monthly	70.26	0.00	70.26	Fixed Only
	Sammamish	Sammamish Plateau Water & Sewer District	7/20/2015	Bi-Monthly	74.22	0.00	74.22	Fixed Only
SEATTLE	Seatac	Valley View Sewer District	1/1/2015	Bi-Monthly	54.05	0.00	54.05	Fixed Only
	Seattle	Seattle Public Utilities	1/1/2015	Bi-Monthly	11.84	82.88	94.72	Fixed and Variable
	Shoreline	Ronald Wastewater District		Bi-Monthly	53.50	0.00	53.50	Fixed Only

County	City	Water Service Provider	Effective Date	Billing Frequency	Fixed Charge	Commodity Charge*	Total Charge	Rate Format
KING	Tukwila	City of Tukwila	1/1/2015	Monthly	71.03	0.00	71.03	Fixed Only
KITSAP	Bremerton	City of Bremerton	1/1/2015	Monthly	33.49	35.92	69.41	Fixed and Variable
KITTITAS	Ellensburg	City of Ellensburg	1/1/2015	Monthly	33.26	0.00	33.26	Fixed Only
LEWIS	Centralia	City of Centralia	1/1/2015	Monthly	63.50	17.92	81.42	Fixed and Variable
PIERCE	Bonney Lake	City of Bonney Lake	7/1/2015	Monthly	53.45	26.56	80.01	Fixed and Variable
	Lakewood	Pierce County	1/2/2015	Monthly	44.18	0.00	44.18	Fixed Only
	Puyallup	City of Puyallup	2/1/2015	Bi-Monthly	16.98	41.20	58.18	Fixed and Variable
	Tacoma	City of Tacoma	1/1/2015	Monthly	21.50	32.40	53.90	Fixed and Variable
SKAGIT	Mount Vernon	City of Mount Vernon	1/1/2013	Bi-Monthly	30.65	22.80	53.45	Fixed and Variable
SNOHOMISH	Arlington	City of Arlington	1/15/2013	Monthly	70.15	0.00	70.15	Fixed Only
	Edmonds	Edmonds Utilities	1/1/2015	Bi-Monthly	30.36	0.00	30.36	Fixed Only
	Everett	City of Everett	7/1/2015	Bi-Monthly	39.25	0.00	39.25	Fixed Only
	Lake Stevens	Lake Stevens Sewer District	1/1/2015	Monthly	80.00	0.00	80.00	Fixed Only
	Lynnwood	City of Lynnwood	1/1/2015	Bi-Monthly	40.30	0.00	40.30	Fixed and Variable
	Marysville	City of Marysville	1/1/2015	Bi-Monthly	40.60	0.00	40.60	Fixed Only
	Mill Creek	Alderwood Water & Wastewater District	10/1/2013	Bi-Monthly	54.00	0.75	54.75	Fixed and Variable
	Monroe	City of Monroe	1/1/2015	Monthly	94.51	0.00	94.51	Fixed and Variable
SPOKANE	Mukilteo	Mukilteo Water and Wastewater District	1/1/2015	Bi-Monthly	61.86	0.00	61.86	Fixed Only
	Spokane	City of Spokane	1/1/2015	Monthly	28.06	0.00	28.06	Fixed Only
	Spokane Valley	Spokane County Utilities	1/1/2014	Monthly	47.01	0.00	47.01	Fixed Only
THURSTON	Lacey	City of Lacey	1/1/2015	Monthly	54.10	0.00	54.10	Fixed Only
	Olympia	City of Olympia	1/1/2015	Bi-Monthly	55.73	0.00	55.73	Fixed Only
	Tumwater	City of Tumwater		Monthly	51.51	0.00	51.51	Fixed Only
	Walla Walla	City of Walla Walla	1/1/2015	Monthly	52.10	0.00	52.10	Fixed Only
WHATCOM	Bellingham	City of Bellingham	1/1/2015	Bi-Monthly	37.24	0.00	37.24	Fixed Only
WHITMAN	Pullman	City of Pullman	11/1/2015	Monthly	38.15	0.00	38.15	Fixed Only
YAKIMA	Sunnyside	City of Sunnyside	1/1/2010	Monthly	40.65	18.05	58.70	Fixed and Variable
	Yakima	City of Yakima	1/1/2014	Bi-Monthly	20.62	24.08	44.70	Fixed and Variable

*Commodity charge based on the usage of 8 ccf, or 5,984 thousand gallons, per month

Oregon Water Survey Participants

County	City	Water Service Provider	Effective Date	Billing Frequency	Fixed Charge	Commodity Charge*	Total Charge	Rate Format
BENTON	Corvallis	City of Corvallis	7/1/2014	Monthly	15.04	29.90	44.94	Inclining
CLACKAMAS	Canby	Canby Utility	1/1/2015	Monthly	19.81	25.24	45.05	Inclining
	Damascus	Sunrise Water Authority	7/1/2011	Bi-Monthly	14.00	36.00	50.00	Inclining
	Gladstone	City of Gladstone	7/1/2015	Bi-Monthly	15.80	15.75	31.55	Uniform
	Happy Valley	Sunrise Water Authority	7/1/2011	Bi-Monthly	14.00	36.00	50.00	Inclining
	Lake Oswego	City of Lake Oswego	7/1/2015	Monthly	24.96	47.35	72.31	Inclining
	Milwaukie	City of Milwaukie	7/1/2015	Monthly	7.15	48.60	55.75	Uniform
	Oregon City	City of Oregon City	7/1/2015	Monthly	14.70	36.90	51.60	Uniform
	West Linn	City of West Linn	1/1/2015	Monthly	19.48	17.92	37.40	Uniform
	Wilsonville	City of Wilsonville	1/1/2015	Monthly	19.56	42.77	62.33	Uniform
COLUMBIA	St. Helens	City of St. Helens	12/1/2015	Bi-Monthly	10.48	78.29	88.77	Uniform
COOS	Coos Bay	Coos Bay - North Bend Water Board		Monthly	19.63	34.69	54.32	Uniform
DESCHUTES	Bend	City of Bend	7/1/2015	Monthly	22.02	27.30	49.32	Uniform
DOUGLAS	Roseburg	City of Roseburg	7/1/2013	Monthly	9.55	22.80	32.35	Uniform
JACKSON	Ashland	City of Ashland	7/1/2015	Monthly	23.50	48.22	71.72	Inclining
JOSEPHINE	Medford	Medford Water Commission	3/1/2015	Monthly	8.00	7.28	15.28	Inclining
	Grants Pass	City of Grants Pass	1/1/2015	Monthly	17.10	14.75	31.85	Inclining
	Eugene	Eugene Water & Electric Board	2/1/2015	Monthly	19.20	20.92	40.12	Inclining
	Springfield	Springfield Utility Board	1/1/2015	Monthly	13.80	23.88	37.68	Inclining
LINCOLN	Newport	City of Newport	7/1/2015	Monthly	20.85	38.50	59.35	Uniform
LINN	Albany	City of Albany	7/1/2015	Monthly	17.93	46.71	64.64	Declining
	Lebanon	City of Lebanon	7/1/2015	Monthly	20.00	69.75	89.75	Uniform
MALHEUR	Ontario	City of Ontario		Monthly	10.00	14.85	24.85	Uniform
MARION	Keizer	City of Keizer	1/1/2015	Bi-Monthly	5.01	19.50	24.51	Uniform
	Salem	City of Salem	1/1/2015	Monthly	6.32	38.70	45.02	Uniform
	Woodburn	City of Woodburn	12/1/2006	Monthly	12.81	26.85	39.66	Inclining
	Gresham	City of Gresham	7/1/2015	Bi-Monthly	20.70	33.90	54.60	Inclining
MULTNOMAH	Portland	Portland Water Bureau	7/1/2015	Quarterly	11.91	59.10	71.01	Uniform
	Troutdale	City of Troutdale	7/1/2015	Monthly	0.00	33.99	33.99	Uniform

County	City	Water Service Provider	Effective Date	Billing Frequency	Fixed Charge	Commodity Charge*	Total Charge	Rate Format
POLK	Dallas	City of Dallas	6/1/2015	Monthly	16.90	21.84	38.74	Uniform
UMATILLA	Hermiston	City of Hermiston	7/1/2015	Monthly	17.14	10.40	27.54	Declining
	Pendleton	City of Pendleton	4/1/2014	Monthly	18.15	17.25	35.40	Inclining
UNION	La Grande	City of La Grande	8/1/2015	Monthly	23.14	12.00	35.14	Declining
WASHINGTON	Beaverton	City of Beaverton		Monthly	13.00	44.55	57.55	Uniform
	Cornelius	City of Cornelius	7/1/2015	Monthly	25.85	47.10	72.95	Inclining
	Forest Grove	City of Forest Grove	7/1/2015	Monthly	22.04	26.79	48.83	Inclining
	Hillsboro	City of Hillsboro	10/1/2015	Bi-Monthly	13.71	31.63	45.34	Inclining
	Sherwood	City of Sherwood	7/1/2015	Monthly	19.49	59.40	78.89	Inclining
	Tigard	City of Tigard	1/1/2015	Monthly	25.83	63.96	89.79	Inclining
	Tualatin	City of Tualatin	7/1/2015	Monthly	7.34	39.00	46.34	Uniform
YAMHILL	McMinnville	McMinnville Water & Light	10/1/2012	Monthly	12.11	23.05	35.16	Inclining
	Newberg	City of Newberg	1/1/2015	Monthly	11.48	55.95	67.43	Uniform

*Commodity charge based on the usage of 15 ccf, or 11,220 gallons, per month

Oregon Wastewater Survey Participants

County	City	Water Service Provider	Effective Date	Billing Frequency	Fixed Charge	Commodity Charge*	Total Charge	Rate Format
BENTON	Corvallis	City of Corvallis	7/1/2014	Monthly	17.24	21.92	39.16	Fixed and Variable
CLACKAMAS	Canby	City of Canby	7/1/2015	Monthly	46.20	0.00	46.20	Fixed Only
	Gladstone	City of Gladstone	11/1/2008	Bi-Monthly	11.65	0.00	11.65	Fixed Only
	Happy Valley	Clackamas County Service District # 1	7/1/2015	Monthly	43.50	0.00	43.50	Fixed Only
	Lake Oswego	City of Lake Oswego	7/1/2015	Monthly	51.25	15.12	66.37	Fixed and Variable
	Milwaukie	City of Milwaukie	7/1/2015	Monthly	37.21	21.76	58.97	Fixed and Variable
COLUMBIA	Oregon City	City of Oregon City	7/1/2015	Monthly	49.83	0.00	49.83	Fixed Only
	West Linn	City of West Linn	1/1/2015	Monthly	36.08	0.00	36.08	Fixed Only
	Wilsonville	City of Wilsonville	1/1/2014	Monthly	19.84	53.10	72.94	Fixed and Variable
	St. Helens	City of St. Helens	12/1/2015	Bi-Monthly	15.27	46.92	62.18	Fixed and Variable
COOS	Coos Bay	City of Coos Bay		Monthly	18.86	54.08	72.94	Fixed and Variable
DESCHUTES	Bend	City of Bend	7/1/2015	Monthly	32.24	27.04	59.28	Fixed and Variable
JACKSON	Ashland	City of Ashland	7/1/2015	Monthly	27.41	16.36	43.77	Fixed and Variable
	Central Point	Rogue Valley Sewer Services	7/1/2015	Monthly	18.30	0.00	18.30	Fixed Only
	Medford	City of Medford	7/15/2015	Monthly	17.82	0.00	17.82	Fixed Only
JOSEPHINE	Grants Pass	City of Grants Pass	1/1/2015	Monthly	13.62	16.68	30.30	Fixed and Variable
LANE	Eugene	City of Eugene	7/1/2015	Monthly	12.33	27.26	39.59	Fixed and Variable
LANE	Springfield	City of Springfield	7/1/2015	Monthly	12.33	40.74	53.07	Fixed and Variable
LINCOLN	Newport	City of Newport	7/1/2015	Monthly	22.90	39.60	62.50	Fixed and Variable
LINN	Albany	City of Albany	7/1/2015	Monthly	37.38	21.08	58.46	Fixed and Variable
	Lebanon	City of Lebanon	7/1/2015	Monthly	22.98	52.56	75.54	Fixed and Variable
MALHEUR	Ontario	City of Ontario		Monthly	40.27	0.00	40.27	Fixed Only
MARION	Keizer	City of Keizer	1/1/2015	Bi-Monthly	12.60	26.64	39.24	Fixed and Variable
	Salem	City of Salem	1/1/2015	Monthly	16.59	25.84	42.43	Fixed and Variable
	Woodburn	City of Woodburn	7/1/2014	Monthly	44.64	25.95	70.59	Fixed and Variable
MULTNOMAH	Gresham	City of Gresham	7/1/2015	Bi-Monthly	27.49	0.00	27.49	Fixed Only
	Portland	Bureau of Environmental Services	7/1/2015	Quarterly	0.00	76.00	76.00	Other
	Troutdale	City of Troutdale	7/1/2015	Monthly	35.73	0.00	35.73	Fixed Only

County	City	Water Service Provider	Effective Date	Billing Frequency	Fixed Charge	Commodity Charge*	Total Charge	Rate Format
POLK	Dallas	City of Dallas	6/1/2015	Monthly	43.93	0.00	43.93	Fixed Only
UMATILLA	Hermiston	City of Hermiston	7/1/2015	Monthly	23.56	0.00	23.56	Fixed Only
	Pendleton	City of Pendleton	4/1/2014	Monthly	30.45	0.00	30.45	Fixed Only
UNION	La Grande	City of La Grande	8/1/2015	Monthly	37.34	0.00	37.34	Fixed Only
WASHINGTON	Beaverton	City of Beaverton		Monthly	28.63	14.16	42.79	Fixed and Variable
	Cornelius	City of Cornelius	7/1/2015	Monthly	33.97	14.22	48.19	Fixed and Variable
	Forest Grove	City of Forest Grove	7/1/2015	Monthly	30.55	14.20	44.75	Fixed and Variable
	Hillsboro	City of Hillsboro	7/1/2015	Bi-Monthly	26.63	14.16	40.79	Fixed and Variable
	Sherwood	City of Sherwood	7/1/2015	Monthly	27.27	14.16	41.43	Fixed and Variable
	Tigard	City of Tigard	7/1/2015	Monthly	26.63	14.16	40.79	Fixed and Variable
	Tualatin	City of Tualatin	7/1/2015	Monthly	27.44	14.66	42.10	Fixed and Variable
YAMHILL	McMinnville	City of McMinnville	7/1/2014	Monthly	17.73	40.64	58.37	Fixed and Variable
	Newberg	City of Newberg	1/1/2015	Monthly	19.43	62.16	81.59	Fixed and Variable

*Commodity charge based on the usage of 8 ccf, or 5,984 gallons, per month



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