

Appendix E

Definition of Water Demand Sub-Regions

E.1 Introduction

The water demand forecast for the 2009 Regional Water Supply Outlook is intended to cover all of King, Pierce and Snohomish Counties. For planning purposes, each county is separated between the utility-served portion of the county and the unserved, or self-served, portion of the county. Thus there are six planning sub-regions that cover the entire region: King County Utility Supplied, King County Self Supplied, Pierce County Utility Supplied, Pierce County Self Supplied, Snohomish County Utility Supplied, and Snohomish County Utility Supplied. *The data and water demands of these six sub-regions can be added to determine the regional total.*

In addition, the Forum's Water Demand Forecast Advisory Committee requested water demand forecasts be determined for smaller planning units. In response, a list of water demand sub-regions was developed. This list of demand sub-regions is not the same as the supply sub-regions (see Appendix S). Furthermore, some of these sub-regions are geographically over-lapping and thus *the demand sub-regions can not be added to a regional total.* For example, the King County Wastewater sub-region overlays several other sub-regions.

E.2 Assigning Purveyors to Sub-Regions

Purveyors were assigned to sub-regions based on geographic or political planning groups. Maps of the provider service areas are shown in Appendix F. It is important to note that *purveyors can be in more than one sub-region.* For example, providers included in the King County Wastewater sub-region are also listed under other planning sub-regions. The assignment of purveyors to sub-regions is displayed in matrix format in Table E-1, which replicates the assignment of purveyors to sub-regions within the Municipal Water Demand Forecast Model (Demand Model).

E.3 Self-Supplied Sub-Regions

For each of the three counties, King, Pierce, and Snohomish, a county self-supplied sub-region is included in the Demand Model. This was included in the forecast to capture water use by utilities other than the 117 large Class A providers as well as any self-supplied single-family households. Self-supplied agricultural water users are not included in the self-supplied sub-region demographics or water use estimates.

The housing and employment inputs for these *residual* areas consist of the difference between county total demographics and the sum of the larger Class A providers in the county. As described in Appendix F, not all single-family households within a purveyor's service boundary are on water systems. Thus, a percent of households served was estimated for each purveyor (see Appendix F for details). The residual, or the percent of households not served within provider boundaries is added to the number of single-family households for the respective county's self-supplied sub-region. Thus, exempt well users are included in the self-supplied sub-region.

Table E-1 Provider Matrix

Provider	South King County Coordinated Water System Plan Planning Area	East King County Coordinated Water System Plan Planning Area	Washon Coordinated Water System Plan Planning Area	Seattle Public Utilities-Retail	Seattle Public Utilities-Wholesale	King County Wastewater	Cascade Water Alliance	Tacoma Public Utilities-Retail	Tacoma Public Utilities-Wholesale	Pierce COOP	Kitsap Peninsula	Everett	Rest of Snohomish	King County (Utility Supplied)	Pierce County (Utility Supplied)	Snohomish County (Utility Supplied)	King County (Self-Supplied)	Pierce County (Self-Supplied)	Snohomish Co. (Self-Supplied)	King County Total	Pierce County Total	Snohomish County Total	Region Total
Alderwood Water District	Y					Y						Y				Y						Y	
Ames Lake	Y													Y						Y			Y
Artondale Water System											Y			Y							Y		Y
Canterwood Water System											Y			Y							Y		Y
Cedar Crest Water System											Y			Y							Y		Y
Cedar River Water & Sewer District	Y				Y	Y								Y						Y			Y
City of Algona	Y					Y								Y						Y			Y
City of Arlington												Y			Y							Y	Y
City of Auburn (King County portion only)	Y					Y								Y						Y			Y
City of Auburn (Pierce County portion only)							Y								Y						Y		Y
City of Bellevue	Y				Y	Y	Y							Y						Y			Y
City of Black Diamond	Y					Y			Y					Y						Y			Y
City of Bonney Lake									Y	Y					Y						Y		Y
City of Bothell	Y				Y	Y								Y						Y			Y
City of Buckley															Y						Y		Y
City of Carnation	Y					Y								Y						Y			Y
City of Dupont															Y						Y		Y
City of Duvall	Y				Y									Y						Y			Y
City of Eatonville															Y						Y		Y
City of Edmonds					Y							Y			Y							Y	Y
City of Enumclaw	Y								Y					Y						Y			Y

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City of Everett												Y				Y						Y	Y
City of Fircrest															Y						Y		Y
City of Gig Harbor										Y					Y						Y		Y
City of Goldbar													Y		Y							Y	Y
City of Granite Falls												Y			Y							Y	Y
City of Issaquah		Y			Y	Y								Y							Y		Y
City of Kent	Y				Y									Y							Y		Y
City of Kirkland		Y		Y	Y	Y								Y							Y		Y
City of Lynnwood												Y			Y							Y	Y
City of Mercer Island		Y		Y	Y									Y							Y		Y
City of Milton										Y					Y							Y	Y
City of Mountlake Terrace												Y			Y							Y	Y
City of North Bend		Y												Y							Y		Y
City of Orting															Y						Y		Y
City of Pacific (King County portion only)	Y				Y									Y							Y		Y
City of Puyallup									Y	Y					Y						Y		Y
City of Redmond		Y		Y	Y	Y								Y							Y		Y
City of Renton		Y		Y	Y									Y							Y		Y
City of Snohomish												Y			Y							Y	Y
City of Snoqualmie		Y												Y							Y		Y
City of Stanwood													Y		Y							Y	Y
City of Sultan												Y			Y							Y	Y
City of Sumner										Y					Y						Y		Y

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City of Tacoma (King County portion only)	Y							Y						Y						Y		Y	
City of Tacoma (Pierce County portion only)								Y							Y						Y		Y
City of Tukwila					Y	Y	Y							Y							Y		Y
Coal Creek Utility District		Y			Y	Y								Y							Y		Y
Covington Water District	Y					Y	Y							Y							Y		Y
Cross Valley Water District (CVWD supplied water only)						Y							Y		Y							Y	Y
Cross Valley Water District (Everett supplied water only)						Y						Y			Y							Y	Y
Curran Road Mutual Water Association									Y						Y						Y		Y
Darrington Water System													Y		Y							Y	Y
Fall City Water District No.127		Y												Y							Y		Y
Fife Department of Public Works									Y	Y				Y							Y		Y
Firgrove Mutual Inc									Y					Y							Y		Y
Fort Lewis Water-Cantonment														Y							Y		Y
Fox Island Mutual Water Association											Y			Y							Y		Y
Fruitland Mutual Water Company									Y	Y				Y							Y		Y
Gold Bar Nature Trails													Y		Y							Y	Y
Heights Water			Y											Y							Y		Y
Highland Water District													Y		Y							Y	Y
Highline Water District	Y				Y	Y								Y							Y		Y
King County residual																Y					Y		Y
King County Water District No. 111	Y				Y			Y						Y							Y		Y
King County Water District No. 119	Y			Y										Y							Y		Y

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King County Water District No. 125					Y	Y								Y						Y		Y	
King County Water District No. 19		Y				Y								Y						Y		Y	
King County Water District No. 20					Y	Y								Y						Y		Y	
King County Water District No. 45					Y									Y						Y		Y	
King County Water District No. 49					Y									Y						Y		Y	
King County Water District No. 54	Y													Y						Y		Y	
King County Water District No. 90		Y			Y	Y								Y						Y		Y	
Lake Forest Park Water District		Y			Y	Y								Y						Y		Y	
Lake Josephine Riviera											Y			Y							Y	Y	
Lakehaven Utility District	Y				Y									Y						Y		Y	
Lakewood Water District										Y				Y							Y	Y	
Marysville Utilities (Everett supplied water only)												Y		Y								Y	Y
Marysville Utilities (Marysville supplied water only)													Y	Y								Y	Y
McChord Air Force Base														Y							Y	Y	
McNeil Island Water											Y			Y							Y	Y	
Minterbrook Water System											Y			Y							Y	Y	
Mirrormont Water System		Y												Y						Y		Y	
Monroe Water System												Y		Y								Y	Y
Mountain View-Edgewood Water Co										Y				Y							Y	Y	
Mukilteo Water District												Y		Y								Y	Y
NE Sammamish Sewer and Water District		Y				Y								Y						Y		Y	
Northshore Utility District		Y			Y	Y								Y						Y		Y	

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Olympic View Water & Sewer District				Y	Y								Y			Y						Y	Y
Palmer Lake Water System											Y				Y						Y		Y
Parkland Light & Water Company										Y					Y						Y		Y
Peacock Hill Water System											Y				Y						Y		Y
Pierce County residual																		Y			Y		Y
Point Evans Water System											Y				Y						Y		Y
River Bend Homeowners Association	Y													Y							Y		Y
Roosevelt Water Association												Y			Y							Y	Y
Sallal Water Association Inc	Y													Y							Y		Y
Sammamish Plateau Water & Sewer District	Y					Y	Y							Y							Y		Y
Sea Cliff Estates Water System											Y				Y						Y		Y
Seattle Public Utilities				Y	Y									Y							Y		Y
Seven Lakes Water Association													Y		Y							Y	Y
Shoreline Water District	Y			Y	Y									Y							Y		Y
Silver Lake Water & Sewer District						Y						Y			Y							Y	Y
Skyway Water & Sewer District				Y	Y	Y								Y							Y		Y
SNO PUD 1 - Dubuque													Y		Y							Y	Y
SNO PUD 1 - Lake Stevens												Y			Y							Y	Y
Snohomish County residual																		Y				Y	Y
Soos Creek Water & Sewer District	Y				Y	Y								Y							Y		Y
Southwood Water System									Y	Y					Y							Y	Y
Spanaway Water Company										Y					Y							Y	Y

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Stroh's Water Company Inc											Y			Y						Y		Y	
Summit Water & Supply Co										Y				Y						Y		Y	
Tapps Island Water System														Y						Y		Y	
Three Lakes Water Association Inc												Y		Y								Y	Y
Town of Steilacoom										Y				Y						Y		Y	
Union Hill Water Association Inc	Y		Y											Y						Y		Y	
Valley Water System								Y	Y					Y						Y		Y	
View Royal Water System														Y						Y		Y	
Warm Beach Conference Ground Water System													Y		Y							Y	Y
Washington State Corrections-Women's Water System											Y			Y						Y		Y	
Western State Hospital														Y						Y		Y	
Wilderness Rim Association	Y													Y						Y		Y	
Woodinville Water District	Y		Y	Y										Y						Y		Y	