

**AVISTA UTILITIES
2006 NATURAL GAS
INTEGRATED RESOURCE PLAN
APPENDICES**

TABLE OF CONTENTS

Appendix 2.1: Natural Gas Demand Forecast Detail

Appendix 2.2: Customer Forecasts

Appendix 2.3: Demand Coefficients

Appendix 2.4: Detailed Demand Data

Appendix 3.1: Demand-Side Management Measures Evaluated

Appendix 3.2: Demand-Side Management Programs Evaluated

Appendix 6.1: General Assumptions

Appendix 6.2: Existing Resource Comparisons

Appendix 6.3: Served and Unserved Demand

Appendix 6.4: Supply-Side Resources

Appendix 6.5: Future Resource Comparisons

Appendix 6.6: Load Duration Curves

Appendix 6.7: Resource Selections

Appendix 6.8: Demand-Side Management Savings

Appendix 7.1: Avoided Cost Determination

Natural Gas Demand Forecast Detail

Appendix 2.1

Appendix 2.1 - Natural Gas Demand Forecast Detail

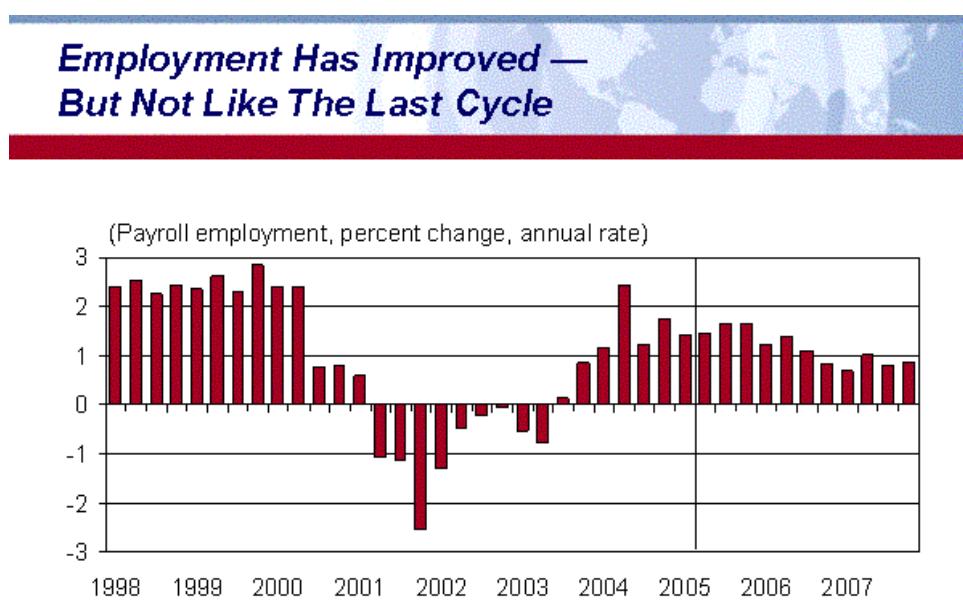
What follows in narrative is the process of preparing the company base customer growth forecast. The first step is a framework-forecast of the national economy, followed by regional economic forecasts consistent with the national outlook. The employment and population forecasts are the key drivers for the natural gas customer forecast.

National Economic Outlook

Avista has contracted with Global Insight, Inc. (formerly known as DRI-McGraw Hill) for national economic forecasts for the last 25 years. The 25 year long term forecast, prepared in Spring 2005, was used as the basis for the 2005 effort. The following narrative with Avista remarks and Global Insight graphics (used with permission) and is consistent with the presentation at the TAC meeting in October 2005, with a focus on the near-term national outlook.

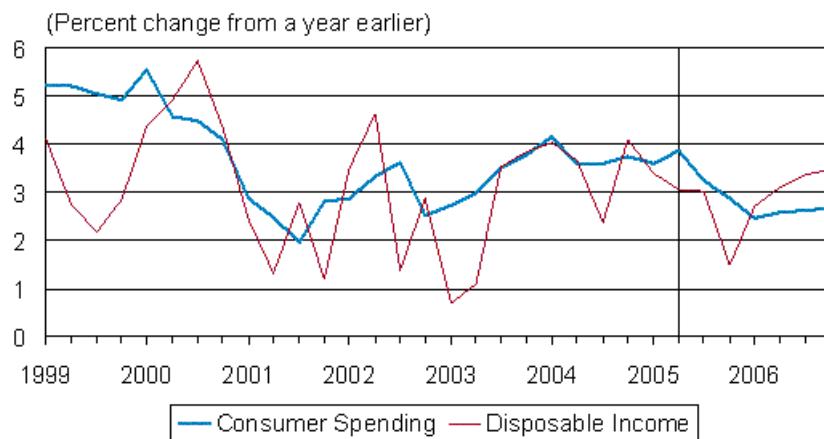
One of the vexing issues in economic forecasting deals with employment. After the technology bust in the late 1990s, employment levels dropped across the country. Of course, the geographic areas with technology sectors were disproportionately harder hit. The resulting declines in the stock market affected consumer spending, leading to weak employment demand in most sectors.

The following chart shows the quarterly payroll employment as percent changes, at annual rates from 1998 to 2007, as of early 2005. Employers have taken the Alan Greenspan approach to hiring, adding workers at a "measured pace." Other than the residential construction sector, this timid hiring practice appears to be driven by global competition, strong labor productivity gains and loose labor markets, at least until recently.



Consumer spending has been supported by low interest rates, both for mortgages and for major purchases, including automobiles. As the slide below suggests, consumer-spending growth is expected to slow.

Consumer Spending Growth Expected to Slow

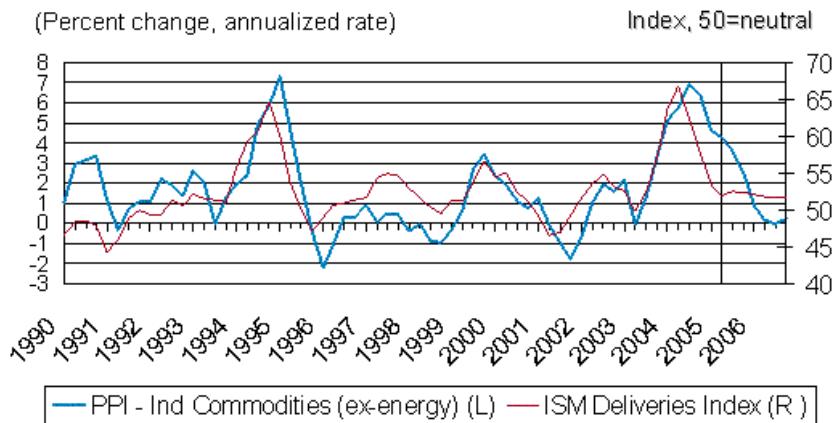


Copyright © 2005 Global Insight, Inc.

05/2005 10

There is an improved picture with respect to commodities inflation, which excludes the impact of hurricanes in the fall of 2005. Eventually, commodity prices end up in final goods.

Commodities Inflation Has Peaked...

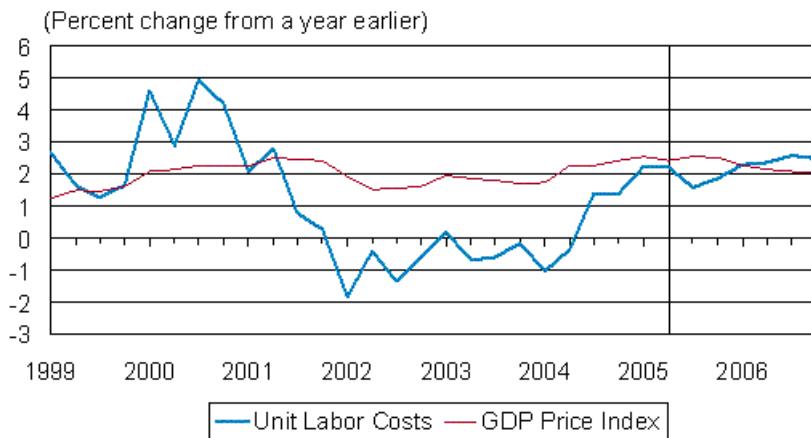


Copyright © 2005 Global Insight, Inc.

05/2005 13

Unit labor costs have declined during the brief recession in 2001, but the picture has changed.

...But Unit Labor Costs Are No Longer Declining



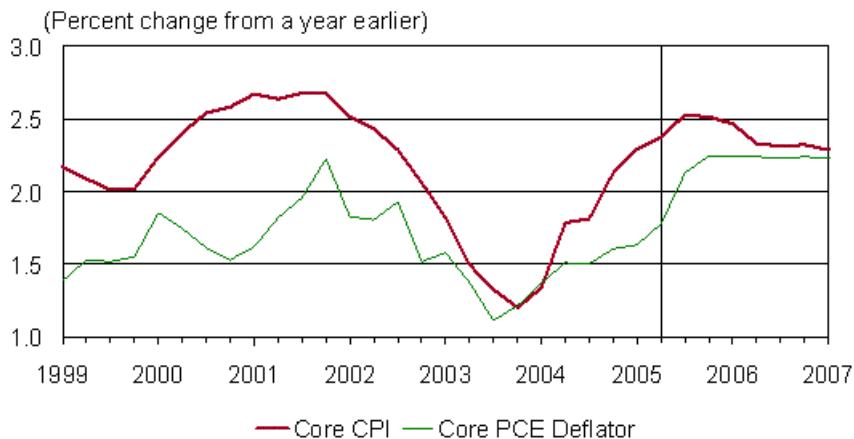
Copyright © 2005 Global Insight, Inc.

05/2005

14

Commodities inflation and unit labor costs lead to changes in the core Consumer Price Index (CPI) and core PCE deflator (Personal Consumption Expenditure).

Core Inflation Has Risen



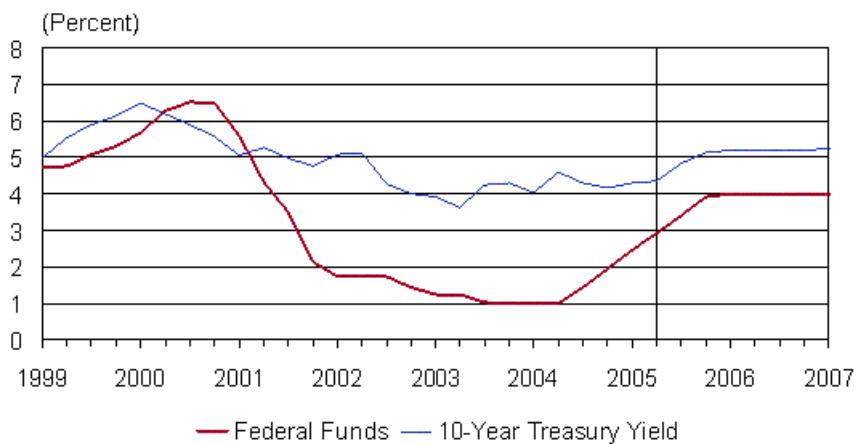
Copyright © 2005 Global Insight, Inc.

05/2005

15

And finally, changes in core inflation inevitably lead to higher interest rates, as the Federal Reserve responds with raising interest rates to tame rising prices.

The Fed Has More Work to Do



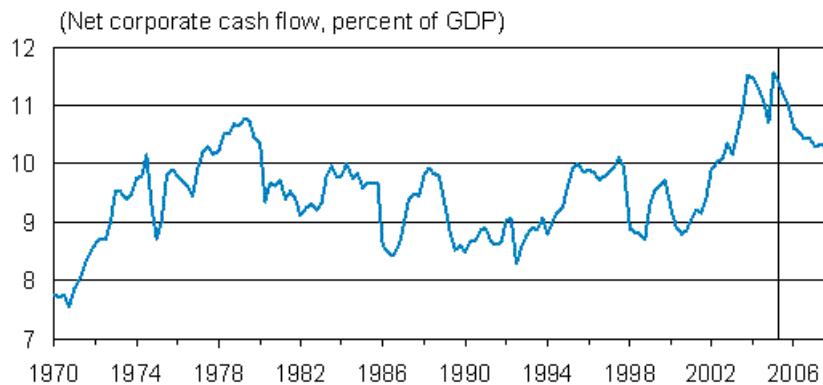
Copyright © 2005 Global Insight, Inc.

05/2005

16

As the business cycle moves forward, the typical improvements in corporate cash flow are revealed in the next graphic.

Corporate Cash Flow Is at Record Levels

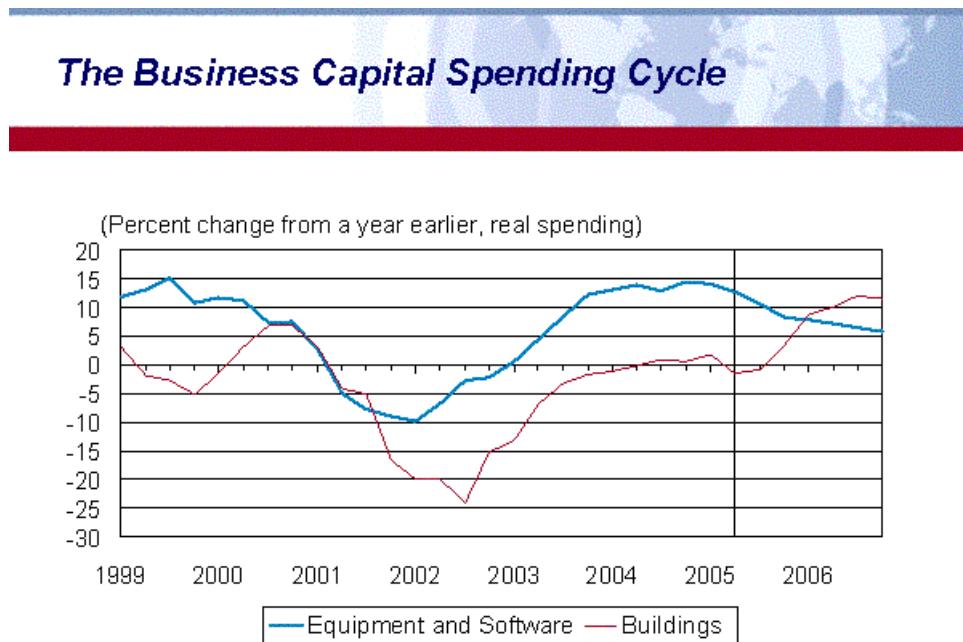


Copyright © 2005 Global Insight, Inc.

05/2005

18

Business investment is one of the final phases in driving the post-recession expansion forward, best illustrated by business capital spending. Equipment and software investment typically rebound sooner than building investment. The next graph predicts real spending changes from the prior year.



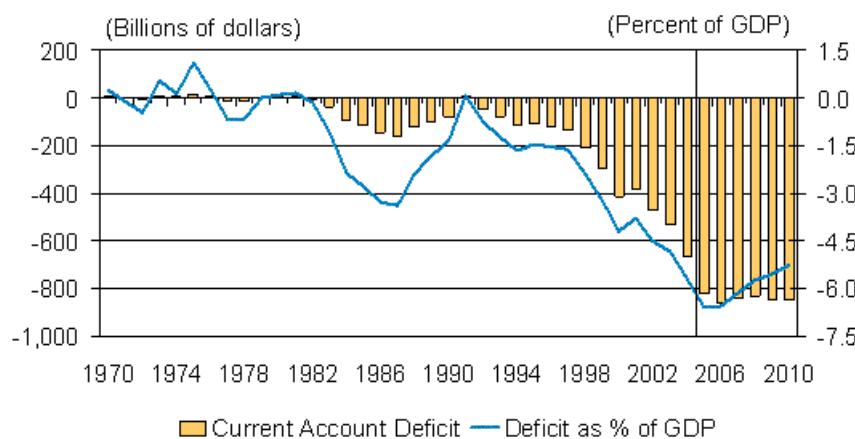
Copyright © 2005 Global Insight, Inc.

05/2005

19

The nation's current account deficit is the net result of imports and exports. A current account surplus occurs when the U.S. exports more than it imports. The chart indicates recent history and forecasts continued large current account deficits.

Current Account Deficit: \$800 Billion as Far as the Eye Can See



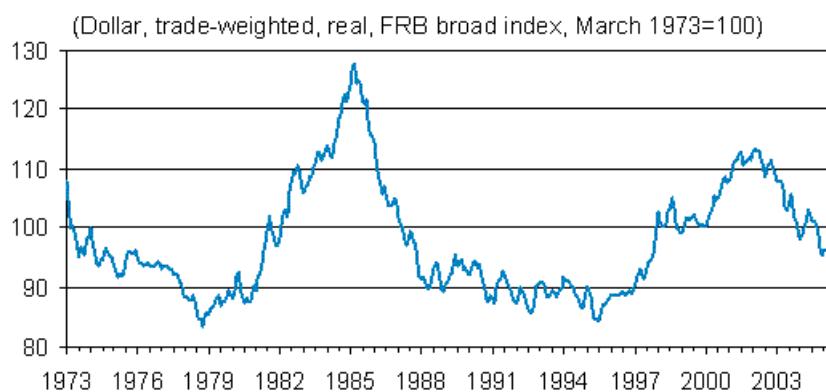
Copyright © 2005 Global Insight, Inc.

05/2005

21

The ultimate impact to the United States economy is further declines in the U.S. dollar, illustrated below as a trade-weighted index supplied by the Federal Reserve Board. This graphic covers 1973 to 2005, and the implication here is this index should fall further, resulting in increased exports of capital goods and decreased imports of everything except oil and refined petroleum products.

The Exchange Rate Has Not Yet Fallen as Far as in the late 1980s — It Has Further to Fall

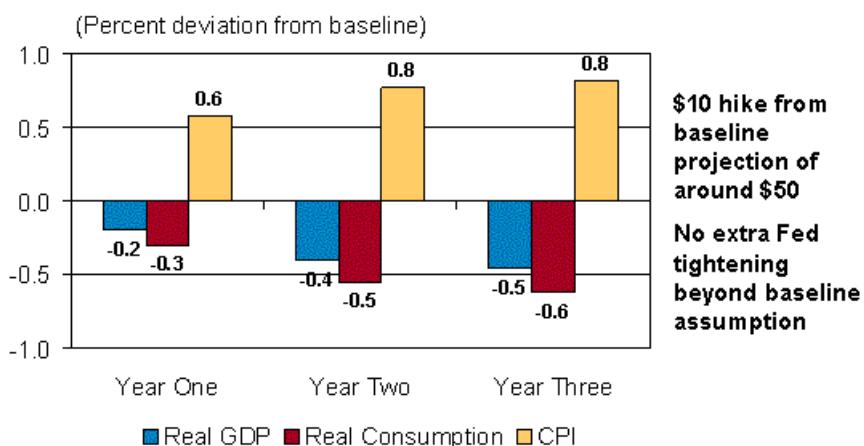


Copyright © 2005 Global Insight, Inc.

05/2005 24

As discussed at the TAC meeting in October 2005, oil prices have jumped considerably. The next four charts were used to address some of the obvious concerns. The discussion during this part of the presentation was helpful in scenario determination. This chart was particularly useful as a marginal impact analysis.

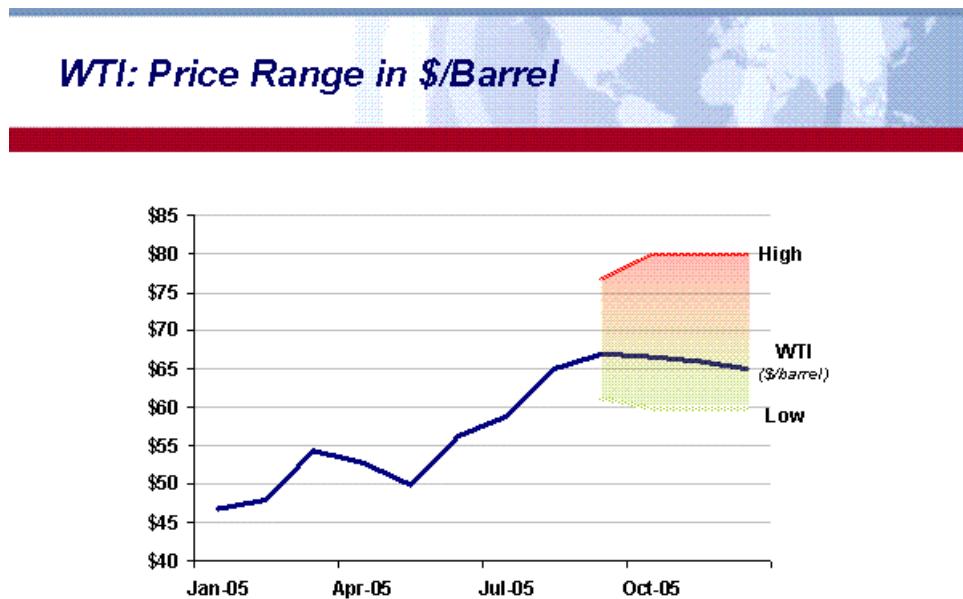
Impact of a \$10 Rise in Oil Prices On the US Economy in the Global Insight Model



Copyright © 2005 Global Insight, Inc.

05/2005 29

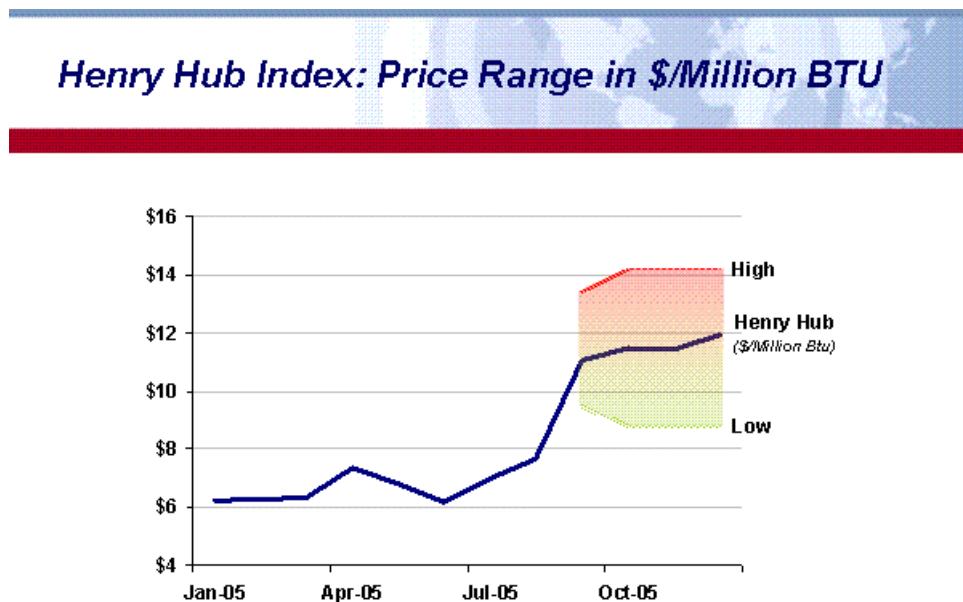
Global Insight had prepared some sensitivity analyses, and used the following to illustrate the range of West Texas Intermediate (WTI) oil prices.



Copyright © 2005 Global Insight, Inc.

02/05/2005 25

Oil prices and natural gas prices have a relationship, and the following chart illustrates uncertainty ranges expected by Global Insight in the Henry Hub Index.

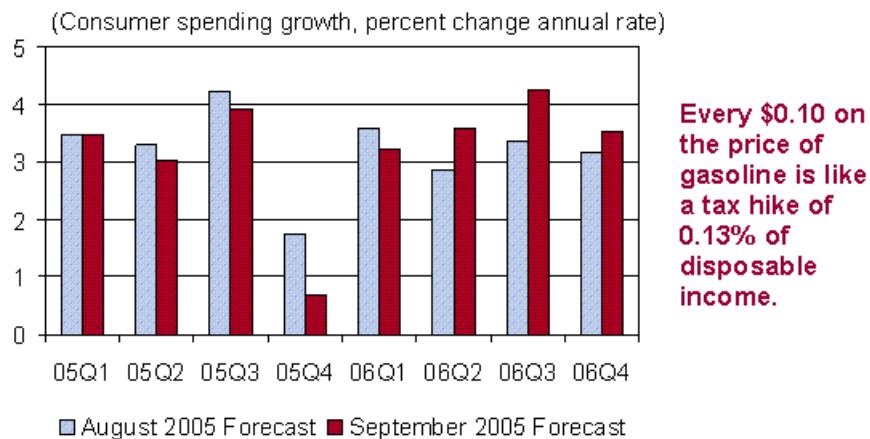


Copyright © 2005 Global Insight, Inc.

02/05/2005 27

Additionally, concerns were noted by Global Insight that higher gasoline prices could dampen consumer-spending growth, as shown below.

Gasoline Prices Dampen Consumer Spending Growth



Copyright © 2005 Global Insight, Inc.

05/05/2005 33

Global Insight characterizes the national housing market as follows.

The Housing Market Today

- ◆ **New and existing home sales at record highs four straight years**
- ◆ **Demand strong**
- ◆ **Supply tight**
- ◆ **As a result, home prices have soared, and construction is booming**
- ◆ **Activity is strongest in the South, followed by the West, NE and Midwest**



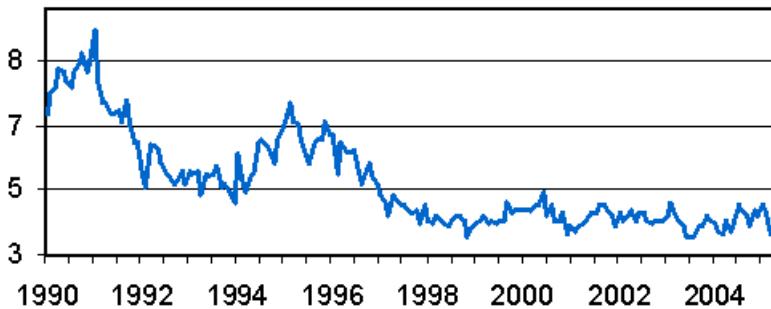
Copyright © 2005 Global Insight, Inc.

05/05/2005 34

Nationally, housing inventories for new single-family homes are at low levels.

Inventories are Lean

Months Supply of New One Family Homes
(Months)



Copyright © 2005 Global Insight, Inc.

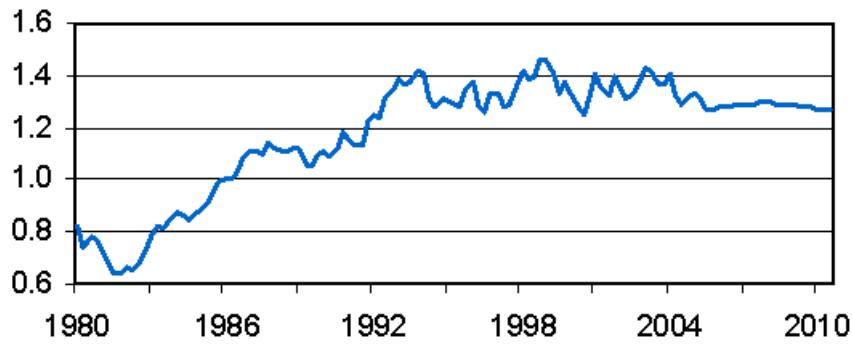
DS2005

43

In most markets in the United States, single-family homes are affordable.

Houses Remain Affordable

Single-family Home Affordability Index



Copyright © 2005 Global Insight, Inc.

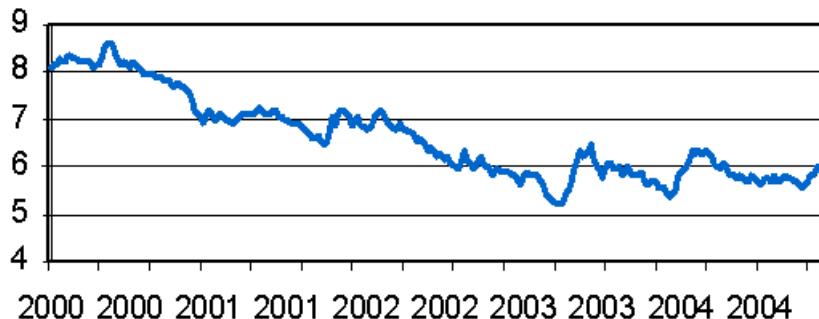
DS2005

44

Mortgage rates throughout most of 2005 have remained low.

Mortgage Rates Remain Low

(Percent)



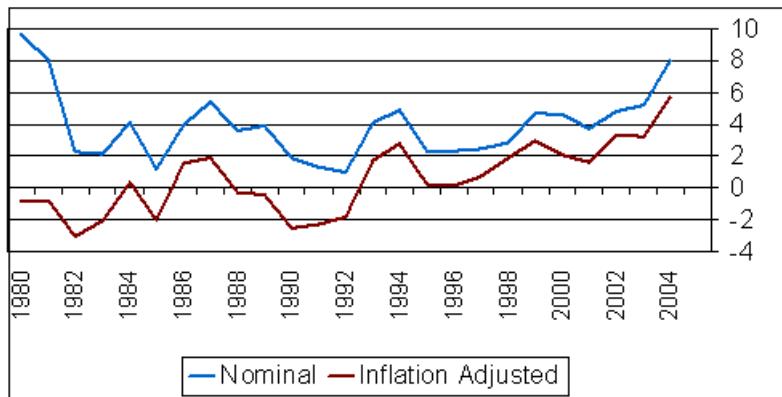
Copyright © 2005 Global Insight, Inc.

05/2005

45

The final chart in the national outlook takes a look at housing prices relative to the national average from 1980 to 2005, in both nominal and inflation adjusted annual changes. The key point is in the chart title, with the non-subtle warning that housing prices have moved both up and down -- with emphasis on down -- as recently as 1991. Although Global Insight does not predict a housing price meltdown, it does concede that housing prices in some markets may not be sustainable at recent levels.

Housing Prices Do Fall



Copyright © 2005 Global Insight, Inc.

05/2005

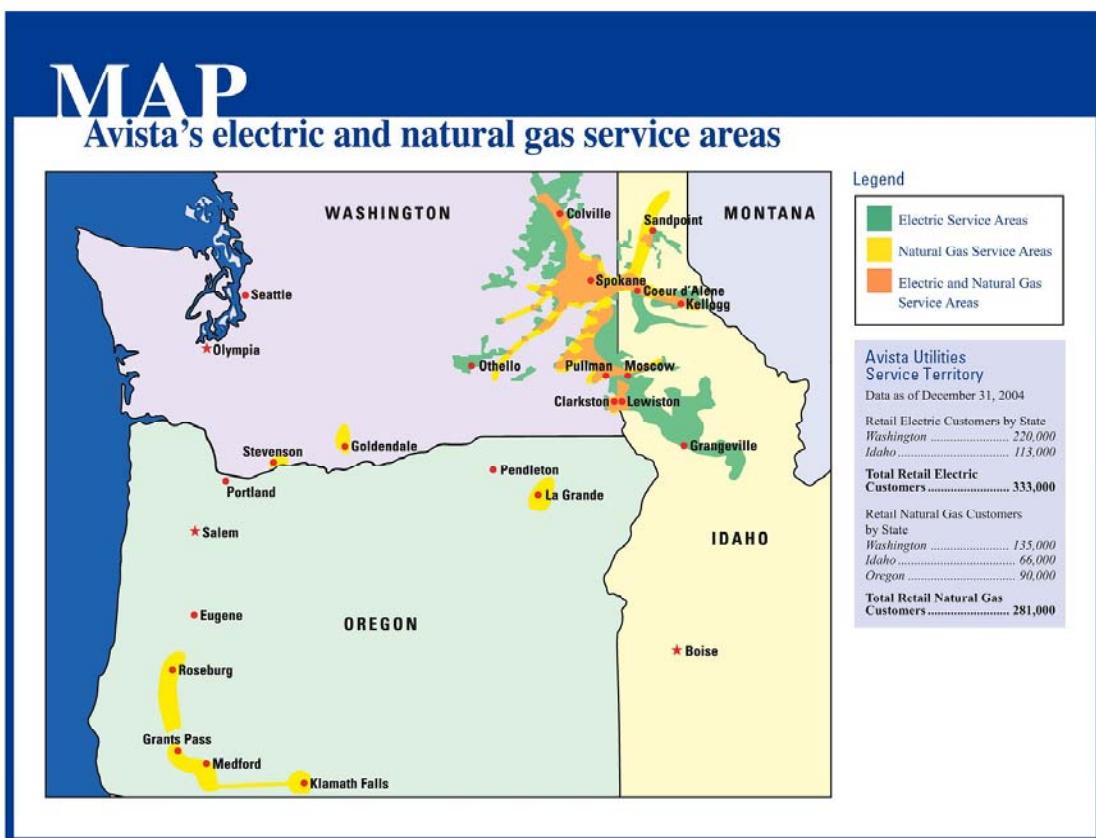
49

This concludes a condensed version of Global Insight, Inc.'s national economic forecast used as the basis for Avista's regional economic outlook. The purpose of including it in this appendix is to frame the economic situation that existed when the base case customer forecast was prepared.

Regional Economic Outlook

Avista serves natural gas customers in eastern Washington, northern Idaho and in portions of five counties in Oregon. The principal county in Washington is Spokane, while in Idaho, Kootenai and Bonner are barometers of service area growth. Kootenai County includes Coeur d'Alene, Post Falls, Hayden and a host of smaller municipalities. Sandpoint anchors Bonner County. The primary cities in Spokane County are the City of Spokane, City of Spokane Valley and the City of Liberty Lake. In Oregon, the counties (principal city) of Jackson (Medford), Josephine (Grants Pass), Douglas (Roseburg), Klamath (Klamath Falls) and Union (La Grande) round out the service territory.

The following map shows the breadth of the service area.



Global Insight, Inc., has been providing county-level forecasts to Avista for a number of years. These forecasts are consistent with and driven by the national forecast already articulated.

The economic concepts provided are forecast forward for 25 years. This forecast ends in the year 2029.

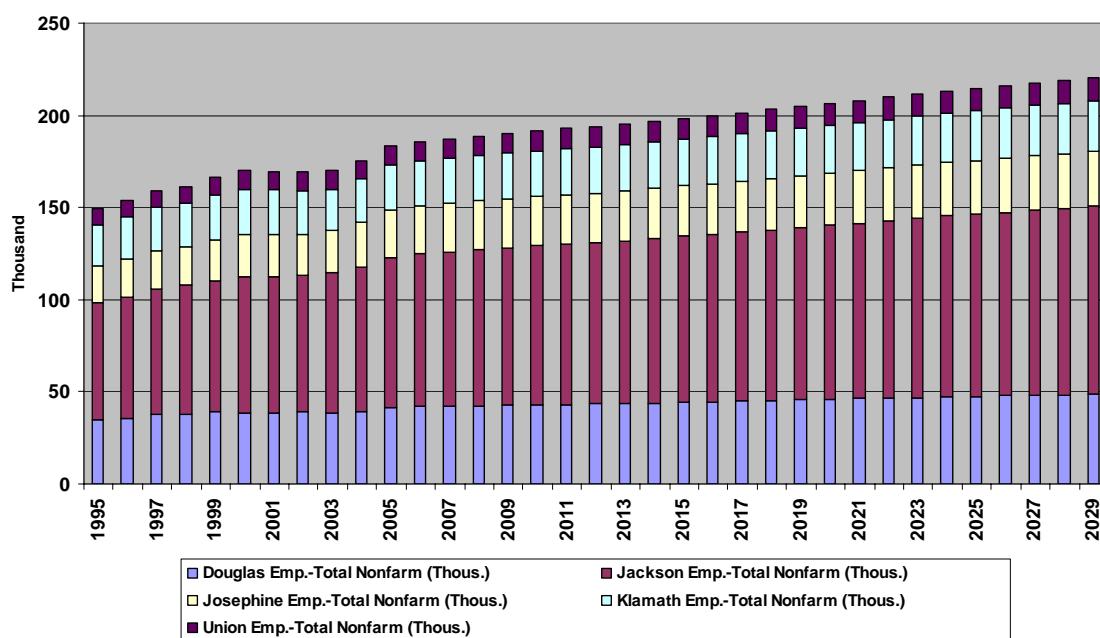
Overall, the results of the economic forecasts suggest the following impacts on Avista's customer growth: Near term the strength in the construction boom will be mirrored by strong customer growth, while longer term underlying employment and population growth will drive customer growth.

Customer use of natural gas will be tempered by rising retail prices as a result of price elasticity of demand, but rising personal income growth will lead to a gradual rise in use per customer, supplemented by rapid population growth in the "over 65 years of age" category.

The charts that follow are the actual employment, population, population age 65 and over, household, personal income and wage and salary income forecasts used to produce the natural gas customer forecasts by state, by area, by customer class (residential, commercial and industrial) and by rate schedule (firm – small, medium and large-sized customers).

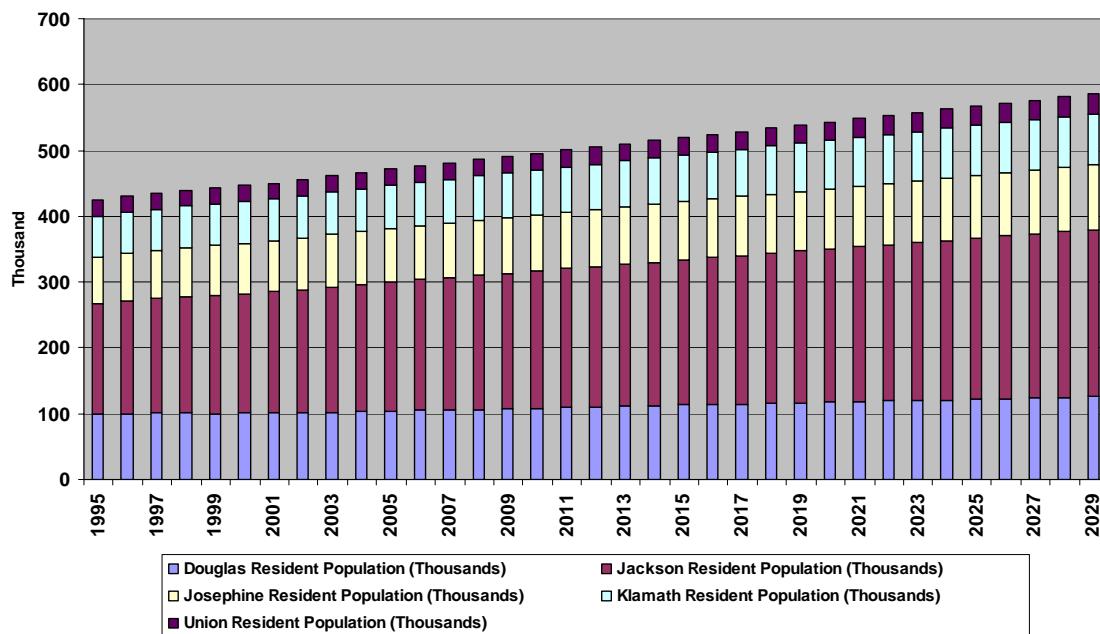
We start by reporting economic forecasts for Oregon. First is employment.

Oregon Employment



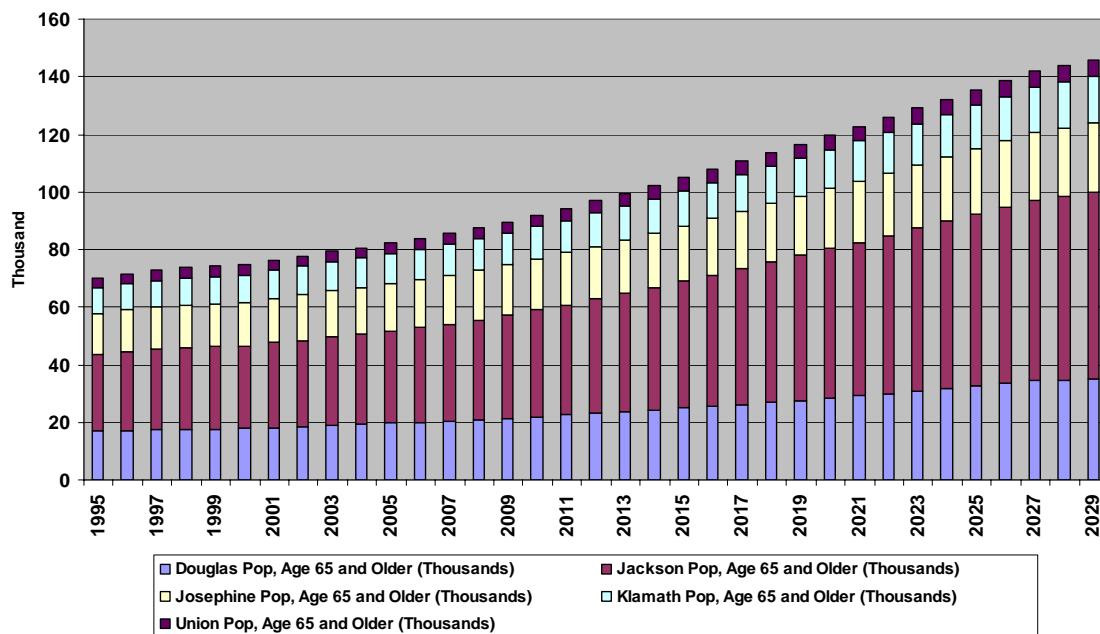
Next is Oregon resident population.

Oregon Resident Population



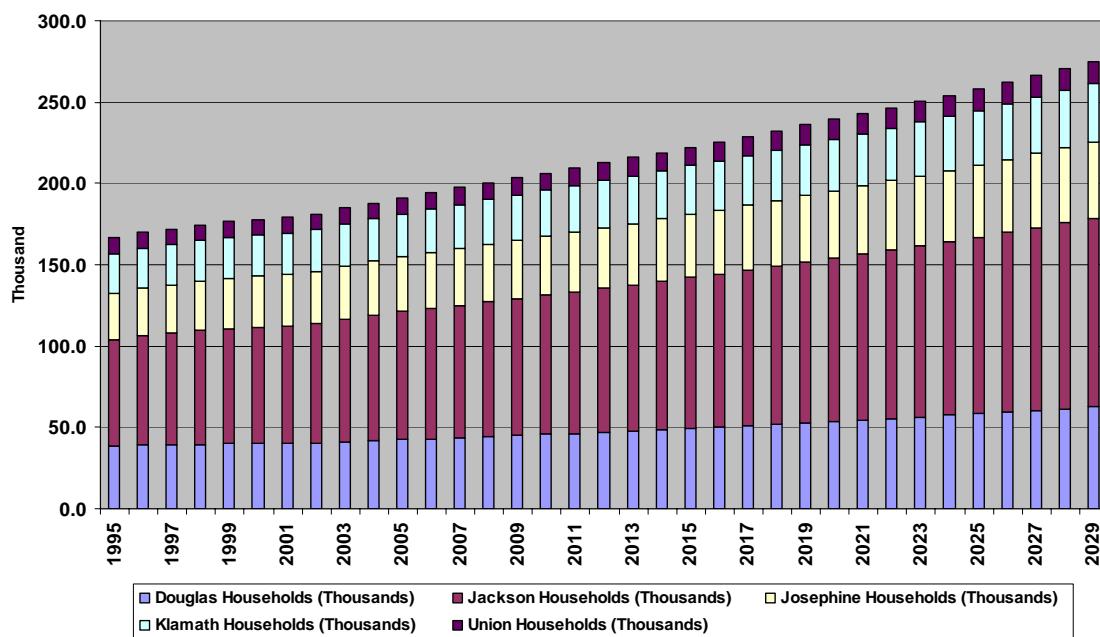
Oregon population age 65 and older grows rapidly during the forecast.

Oregon Population Age 65 and Older



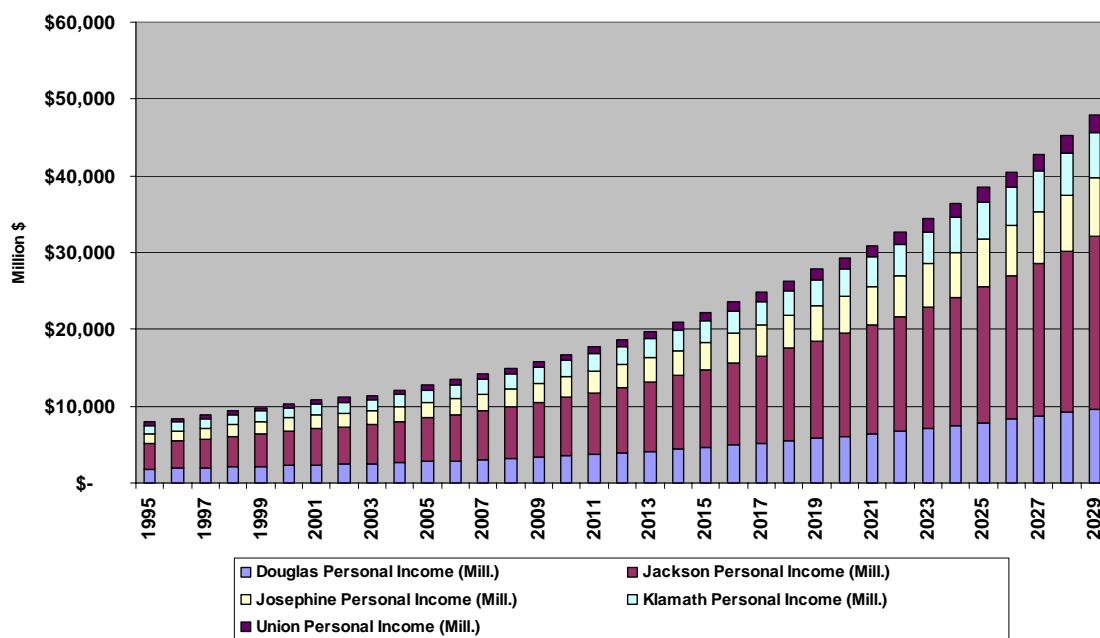
Oregon household growth is impacted by strong employment growth, retirement relocation and smaller household size as a larger proportion of elderly occurs.

Oregon Households



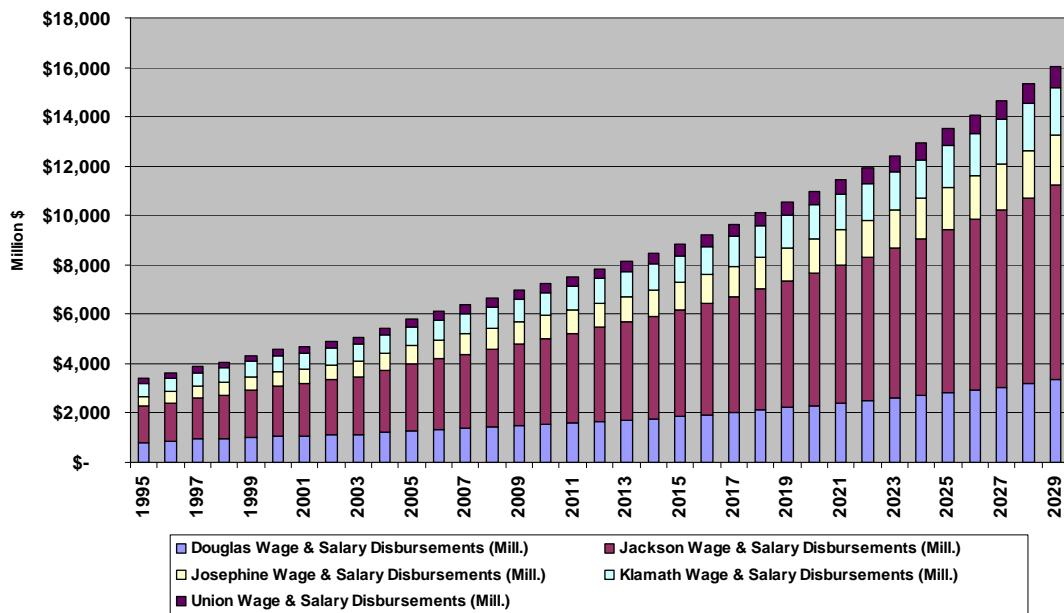
Oregon personal income is shown in nominal dollars in total.

Oregon Personal Income



The final chart for Oregon shows wage and salary income, which is approximately one-third of personal income.

Oregon Wage & Salary Income



The table below compares compound growth rates (CGR) between the 1995-2005 decade and the two decade forecast period 2005-2025.

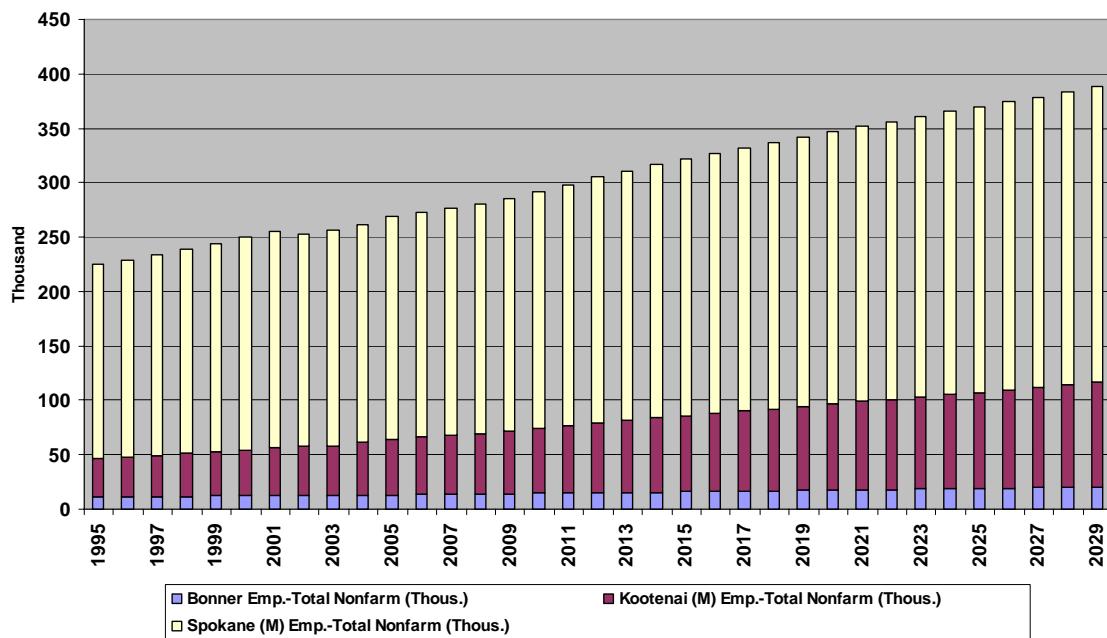
Douglas County, OR		<u>1995-2005 CGR</u>	<u>2005-2025 CGR</u>
Douglas Emp.-Total Nonfarm (Thous.)		1.8%	0.7%
Douglas Resident Population (Thousands)		0.5%	0.8%
Douglas Pop, Age 65 and Older (Thousands)		1.6%	2.5%
Douglas Households (Thousands)		1.0%	1.6%
Douglas Personal Income (Mill.)		4.4%	5.4%
Douglas Wage & Salary Disbursements (Mill.)		4.8%	4.0%
Jackson County OR		<u>1995-2005 CGR</u>	<u>2005-2025 CGR</u>
Jackson Emp.-Total Nonfarm (Thous.)		2.5%	1.0%
Jackson Resident Population (Thousands)		1.6%	1.1%
Jackson Pop, Age 65 and Older (Thousands)		1.9%	3.2%
Jackson Households (Thousands)		1.8%	1.6%
Jackson Personal Income (Mill.)		5.3%	5.9%
Jackson Wage & Salary Disbursements (Mill.)		6.3%	4.6%
Josephine County, OR		<u>1995-2005 CGR</u>	<u>2005-2025 CGR</u>
Josephine Emp.-Total Nonfarm (Thous.)		2.6%	0.6%
Josephine Resident Population (Thousands)		1.3%	0.8%
Josephine Pop, Age 65 and Older (Thousands)		1.5%	1.6%
Josephine Households (Thousands)		1.7%	1.4%
Josephine Personal Income (Mill.)		4.9%	5.8%
Josephine Wage & Salary Disbursements (Mill.)		6.3%	4.2%

	<u>1995-2005 CGR</u>	<u>2005-2025 CGR</u>
Klamath County, OR		
Klamath Emp.-Total Nonfarm (Thous.)	0.8%	0.6%
Klamath Resident Population (Thousands)	0.7%	0.7%
Klamath Pop, Age 65 and Older (Thousands)	1.3%	2.0%
Klamath Households (Thousands)	1.0%	1.2%
Klamath Personal Income (Mill.)	4.2%	5.4%
Klamath Wage & Salary Disbursements (Mill.)	3.9%	4.0%
Union County, OR		
Union Emp.-Total Nonfarm (Thous.)	1.4%	0.8%
Union Resident Population (Thousands)	-0.1%	0.8%
Union Pop, Age 65 and Older (Thousands)	0.8%	2.0%
Union Households (Thousands)	0.3%	1.3%
Union Personal Income (Mill.)	3.7%	5.5%
Union Wage & Salary Disbursements (Mill.)	4.4%	4.0%

From the table above, forecasted household growth increases faster than the previous decade. The economic dislocations during the previous decade are largely over, and household growth is accelerated by the growth in elderly households.

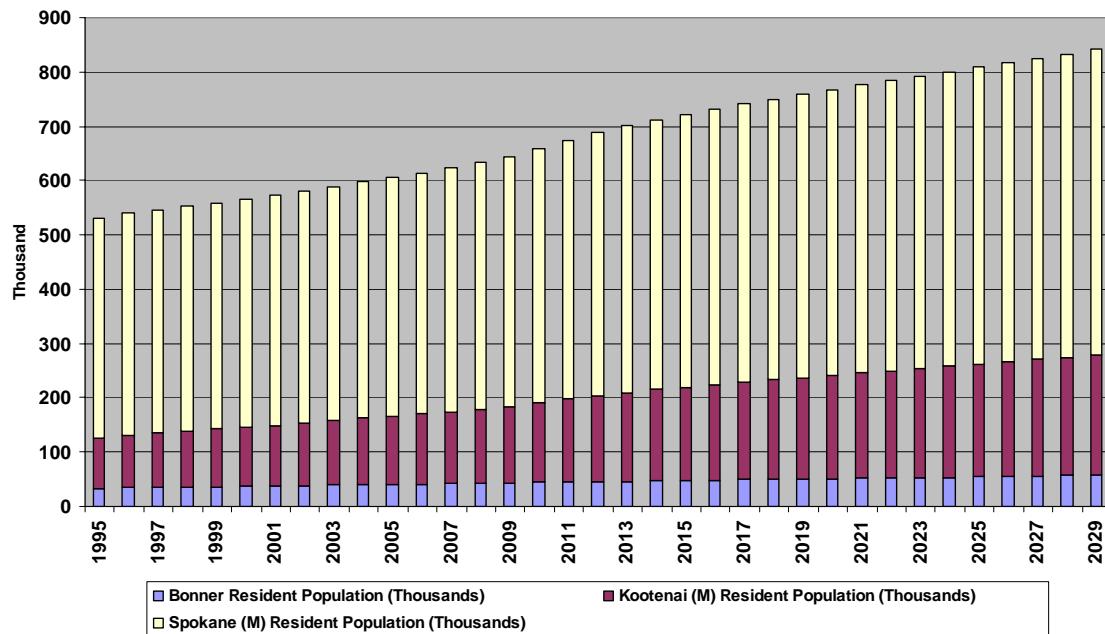
Idaho and Washington historical and forecasted data follows in the same format for the three primary counties. The first is employment for nonfarm workers.

Idaho & Washington Employment



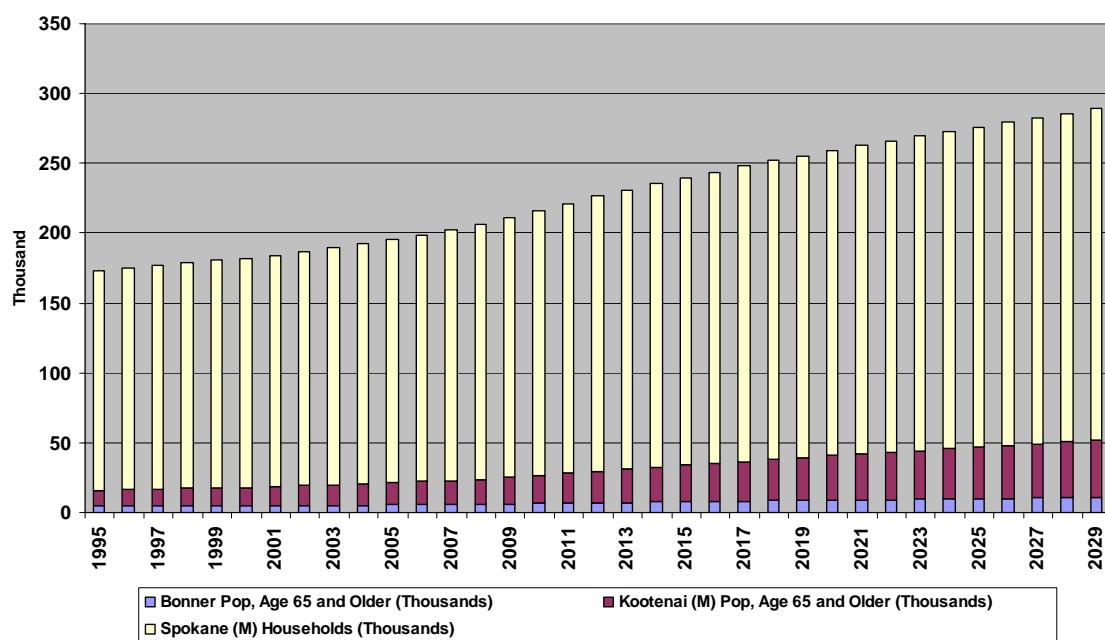
Next is resident population for the three counties. In both the employment and population charts, Spokane County is the larger, with Kootenai growing fastest.

Idaho & Washington Population



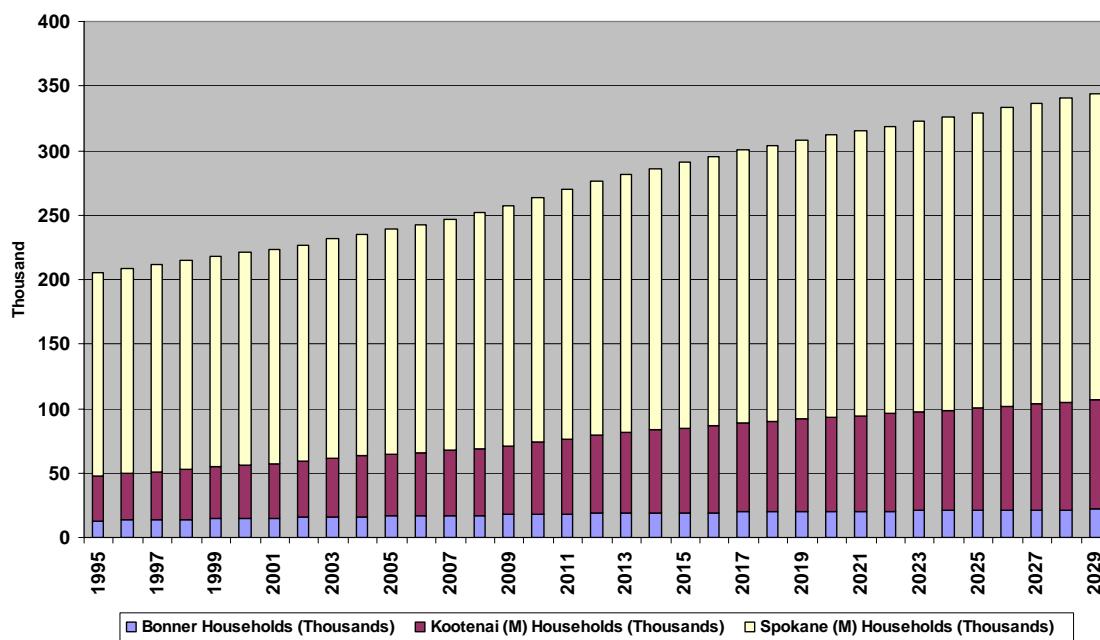
Spokane County has a significant population over 65 years of age, and the prevalence of these residents remain over the forecast period, which results in slightly faster customer growth.

Idaho & Washington Age 65 & Over



Household growth remains strong during the next twenty years.

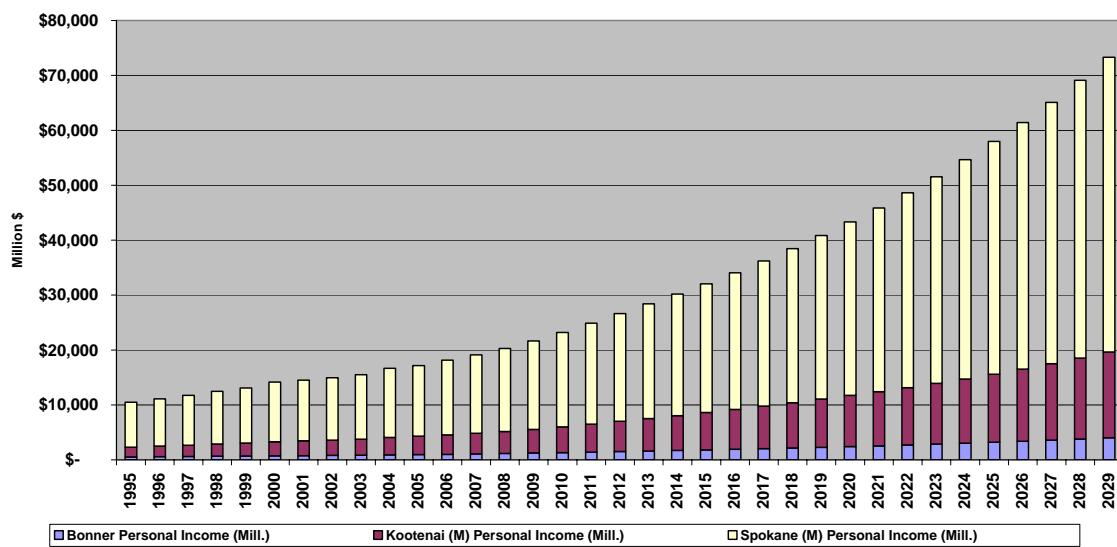
Idaho & Washington Households



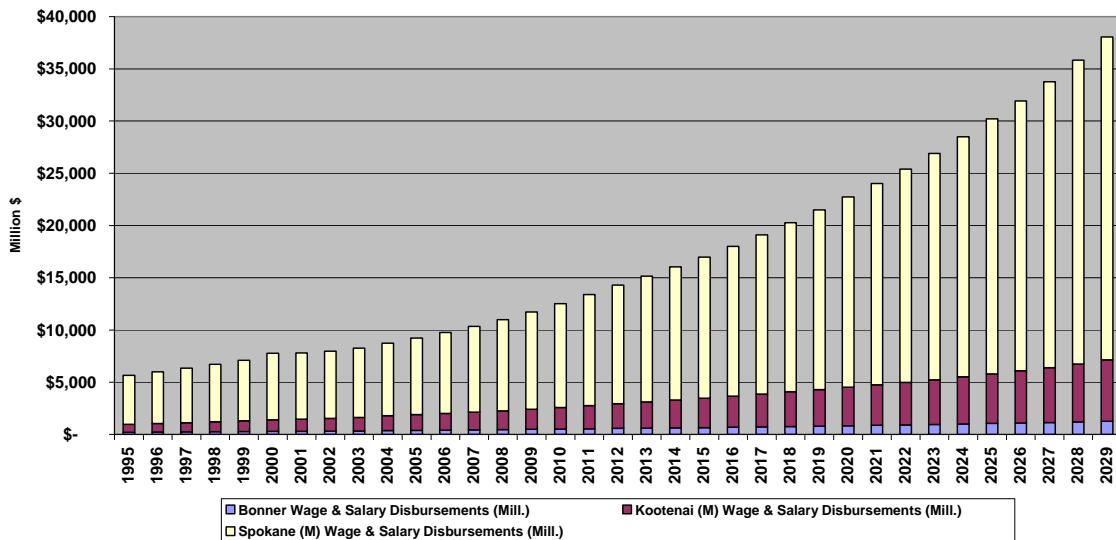
The two income figures below illustrate the largest difference between the Oregon economies and the Washington/Idaho economies.

Although personal income growth is strong, as is wage and salary income, as shown below, the proportion of wage and salary income is about one half.

Idaho & Washington Personal Income



Idaho & Washington Wage & Salary Income



As the final table in the county economics section shows, growth throughout the three county areas is expected to be robust, although not as rapid in Idaho in the decade ahead as in the last decade. Both Idaho counties transformed their economies from resource-based to manufacturing and tourism-based economies during the last decade. This transformation has improved the economic health of the area and has made the entire region less sensitive to business cycles.

Bonner County, ID

	<u>1995-2005 CGR</u>	<u>2005-2025 CGR</u>
Bonner Emp.-Total Nonfarm (Thous.)	1.9%	1.9%
Bonner Resident Population (Thousands)	2.0%	1.5%
Bonner Pop, Age 65 and Older (Thousands)	1.9%	3.1%
Bonner Households (Thousands)	2.5%	1.2%
Bonner Personal Income (Mill.)	6.0%	6.2%
Bonner Wage & Salary Disbursements (Mill.)	6.1%	5.2%

Kootenai County, ID

	<u>1995-2005 CGR</u>	<u>2005-2025 CGR</u>
Kootenai (M) Emp.-Total Nonfarm (Thous.)	3.7%	2.7%
Kootenai (M) Resident Population (Thousands)	3.1%	2.5%
Kootenai (M) Pop, Age 65 and Older (Thousands)	3.3%	4.3%
Kootenai (M) Households (Thousands)	3.3%	2.5%
Kootenai (M) Personal Income (Mill.)	6.5%	6.7%
Kootenai (M) Wage & Salary Disbursements (Mill.)	7.1%	5.9%

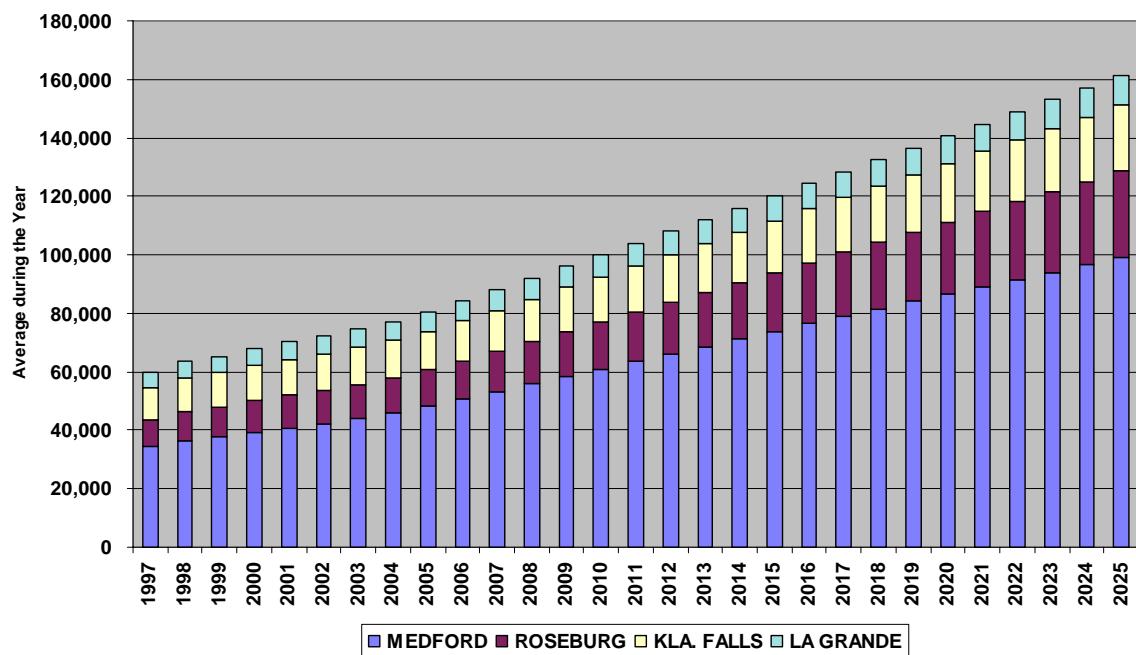
Spokane County WA

	<u>1995-2005 CGR</u>	<u>2005-2025 CGR</u>
Spokane (M) Emp.-Total Nonfarm (Thous.)	1.3%	1.3%
Spokane (M) Resident Population (Thousands)	0.8%	1.1%
Spokane (M) Pop, Age 65 and Older (Thousands)	1.2%	3.4%
Spokane (M) Households (Thousands)	1.0%	1.4%
Spokane (M) Personal Income (Mill.)	4.6%	6.1%
Spokane (M) Wage & Salary Disbursements (Mill.)	4.6%	6.2%

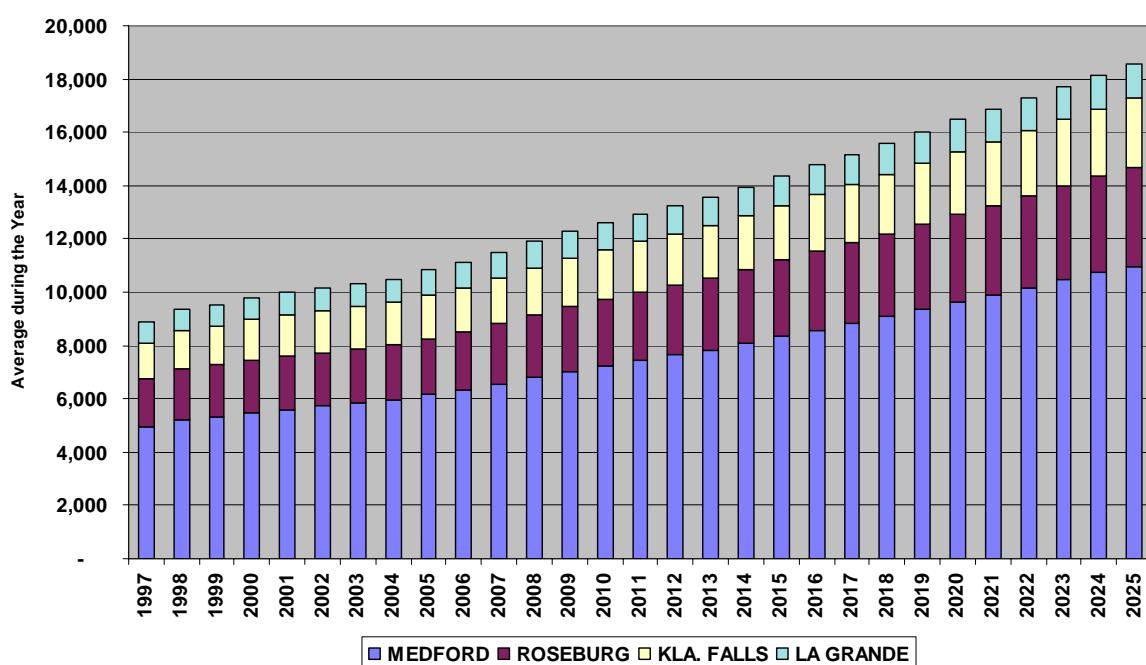
Oregon Customer Forecast

Base case customer forecasts for residential and commercial sectors are shown in the next two figures, and are consistent with the economic forecasts.

Oregon Residential Customers

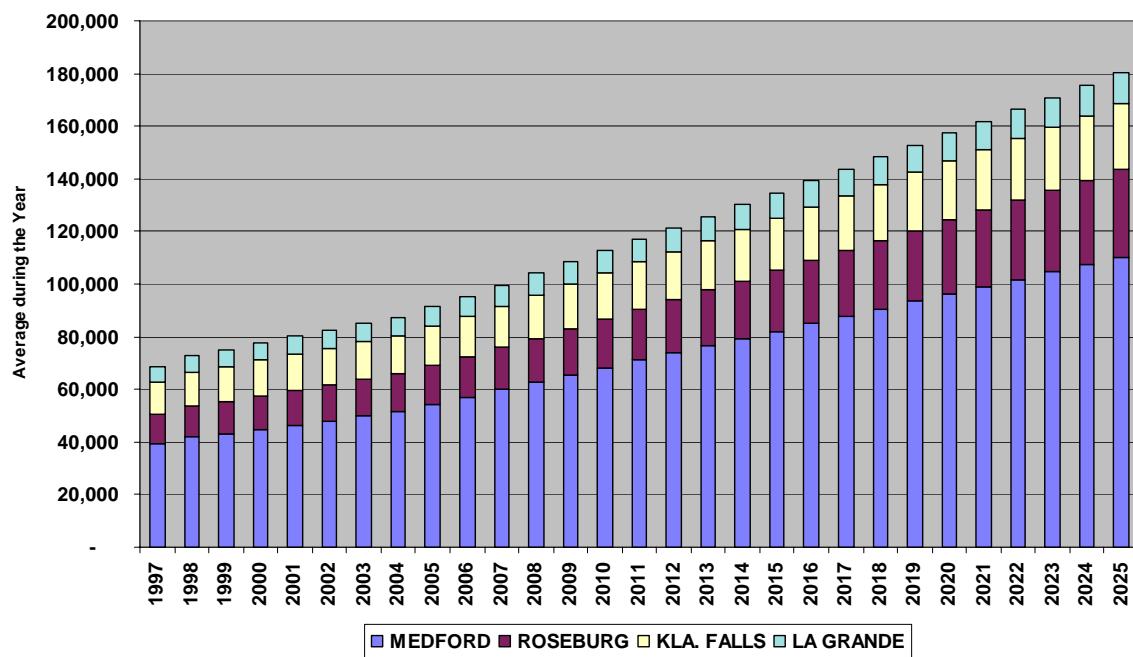


Oregon Commercial Customers



The customer forecasts by area within Oregon are shown in the following figure. Presently, the Medford area has 60 percent of the Avista customers in Oregon. By 2025, Medford's share shows a slight increase to 61 percent. Roseburg's share increases from 16 percent to 19 percent over the two-decade period, while Klamath Falls shows a share slippage from 16 percent to 14, and La Grande drops from 8 percent to 6 percent.

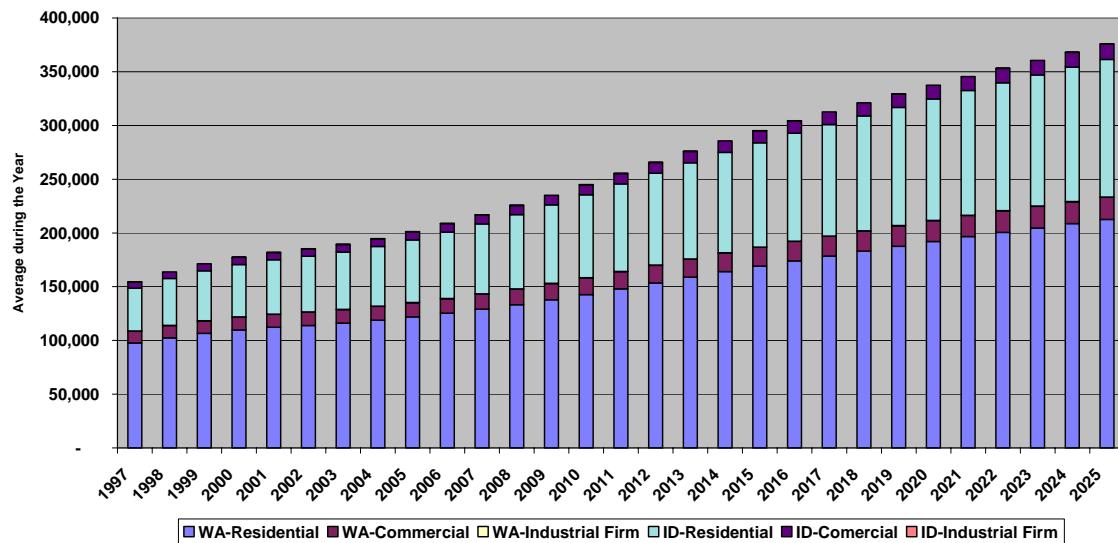
Oregon Total Customers



Washington/Idaho Customer Forecast

The analysis and methodology for Oregon is replicated for the Avista natural gas service areas located in eastern Washington and northern Idaho. Firm customer forecasts are shown in the following chart:

Washington & Idaho Firm Customers



Customer Forecasts

Appendix 2.2

Appendix 2.2 - Customer Forecast - Number by Region
Base Case (Utilized in Cases# 1, # 2 & #3)

	WA / ID	Residential Commercial	Firm Ind.	Residential	Commercial	Medford	Residential	Commercial	Roseburg	Firm Ind.	Residential	Klamath Falls	Commercial	Firm Ind.	Residential	La Grande	Commercial	Firm Ind.
Nov-06	190,447	21,775	271	51,728	6,378	0	13,312	2,203	2	13,899	1,682	0	6,815	963	0	6,878	966	0
Dec-06	191,163	21,837	272	52,295	6,393	0	13,514	2,225	2	14,109	1,691	0	6,933	969	0	6,939	973	2
Jan-07	192,042	21,978	275	52,480	6,461	0	13,619	2,228	2	14,208	1,704	0	6,939	973	0	6,933	976	2
Feb-07	192,093	22,048	274	52,615	6,491	0	13,656	2,262	2	14,234	1,706	0	6,933	976	0	6,933	976	2
Mar-07	192,347	22,028	271	52,581	6,507	0	13,658	2,248	2	14,212	1,704	0	6,879	978	0	6,879	978	2
Apr-07	192,568	22,062	271	52,585	6,535	0	13,668	2,240	2	14,197	1,701	0	6,882	980	0	6,882	980	2
May-07	192,405	22,024	269	52,657	6,548	0	13,544	2,244	2	14,157	1,690	0	6,837	972	0	6,837	972	2
Jun-07	192,811	22,058	272	52,486	6,565	0	13,516	2,240	2	14,016	1,691	0	6,866	972	0	6,866	973	3
Jul-07	193,253	22,253	274	54,980	6,580	0	13,446	2,241	2	13,962	1,689	0	6,808	973	0	6,808	975	3
Aug-07	194,483	22,386	275	52,721	6,592	0	13,452	2,248	2	13,902	1,699	0	6,818	975	0	6,818	976	7
Sep-07	195,544	22,403	278	53,141	6,608	0	13,469	2,257	2	13,948	1,706	0	6,945	976	0	6,945	976	7
Oct-07	196,695	22,499	276	53,758	6,620	0	13,683	2,268	2	14,170	1,720	0	6,990	978	0	6,990	978	6
Nov-07	198,053	22,611	276	54,328	6,628	0	13,912	2,278	2	14,399	1,727	0	7,053	981	0	7,053	981	1
Dec-07	198,769	22,673	277	54,895	6,643	0	14,164	2,300	2	14,609	1,736	0	7,132	988	0	7,132	988	2
Jan-08	200,238	22,831	280	56,013	6,706	0	14,332	2,312	2	14,706	1,752	0	7,139	992	0	7,139	992	3
Feb-08	200,293	22,906	278	55,162	6,738	0	14,373	2,349	2	14,734	1,754	0	7,132	996	0	7,132	996	2
Mar-08	200,460	22,885	275	55,124	6,756	0	14,320	2,334	2	14,710	1,752	0	7,075	998	0	7,075	998	2
Apr-08	200,699	22,922	275	55,129	6,786	0	14,386	2,325	2	14,694	1,749	0	7,079	1,000	0	7,079	1,000	2
May-08	200,414	22,911	273	55,208	6,800	0	14,304	2,329	2	14,651	1,738	0	7,031	991	0	7,031	991	2
Jun-08	200,854	22,917	276	55,020	6,818	0	14,218	2,325	2	14,500	1,739	0	7,062	991	0	7,062	992	3
Jul-08	201,839	23,101	280	57,770	6,834	0	14,141	2,326	2	14,442	1,736	0	7,000	992	0	7,000	995	7
Aug-08	202,446	23,244	281	55,279	6,847	0	14,148	2,334	2	14,378	1,747	0	7,011	995	0	7,011	995	2
Sep-08	203,377	23,262	284	55,742	6,865	0	14,167	2,343	2	14,427	1,754	0	7,145	996	0	7,145	996	7
Oct-08	204,514	23,366	282	56,422	6,878	0	14,402	2,355	2	14,665	1,769	0	7,193	998	0	7,193	998	6
Nov-08	205,982	23,487	282	57,051	6,886	0	14,654	2,366	2	14,911	1,777	0	7,031	991	0	7,031	991	2
Dec-08	206,757	23,554	283	57,676	6,902	0	14,877	2,389	2	15,136	1,786	0	7,259	1,001	0	7,259	1,001	1
Jan-09	208,671	23,682	284	57,598	6,930	0	15,117	2,384	2	15,207	1,799	0	7,334	1,006	0	7,334	1,006	2
Feb-09	208,729	23,761	282	57,754	6,964	0	15,159	2,421	2	15,236	1,801	0	7,341	1,010	0	7,341	1,010	3
Mar-09	208,902	23,738	279	57,715	6,981	0	15,104	2,406	2	15,211	1,799	0	7,334	1,013	0	7,334	1,013	2
Apr-09	209,151	23,776	282	57,719	7,013	0	15,173	2,397	2	15,195	1,796	0	7,216	1,015	0	7,216	1,015	2
May-09	208,855	23,734	277	57,802	7,027	0	15,087	2,401	2	15,150	1,784	0	7,279	1,017	0	7,279	1,017	2
Jun-09	209,313	23,772	280	57,605	7,046	0	14,997	2,397	2	14,994	1,785	0	7,230	1,009	0	7,230	1,009	2
Jul-09	210,339	23,962	284	60,485	7,063	0	14,916	2,398	2	14,934	1,783	0	7,262	1,009	0	7,262	1,009	3
Aug-09	210,972	24,111	285	57,876	7,076	0	14,923	2,406	2	14,867	1,793	0	7,199	1,010	0	7,199	1,010	3
Sep-09	211,942	24,130	288	58,361	7,094	0	14,942	2,416	2	14,918	1,801	0	7,210	1,012	0	7,210	1,012	7
Oct-09	213,127	24,237	286	59,074	7,108	0	15,191	2,428	2	15,165	1,816	0	7,347	1,013	0	7,347	1,013	7
Nov-09	214,363	24,363	286	59,732	7,117	0	15,457	2,439	2	15,419	1,824	0	7,396	1,015	0	7,396	1,015	6
Dec-09	215,465	24,432	287	60,387	7,133	0	15,691	2,463	2	15,652	1,834	0	7,464	1,018	0	7,464	1,018	2
Jan-10	217,598	24,533	290	60,065	7,134	0	15,881	2,456	2	15,680	1,846	0	7,527	1,023	0	7,527	1,023	2
Feb-10	217,658	24,614	288	60,228	7,169	0	15,926	2,495	2	15,710	1,848	0	7,534	1,028	0	7,534	1,028	3
Mar-10	217,839	24,591	285	60,192	7,187	0	15,867	2,479	2	15,684	1,844	0	7,527	1,031	0	7,527	1,031	2
Apr-10	218,099	24,630	285	60,192	7,219	0	15,941	2,470	2	15,667	1,843	0	7,467	1,033	0	7,467	1,033	2
May-10	217,790	24,586	283	60,278	7,234	0	15,850	2,474	2	15,622	1,831	0	7,470	1,035	0	7,470	1,035	2
Jun-10	218,267	24,626	286	60,072	7,254	0	15,755	2,470	2	15,460	1,832	0	7,420	1,027	0	7,420	1,027	2
Jul-10	219,338	24,823	290	63,076	7,271	0	15,670	2,471	2	15,398	1,830	0	7,453	1,027	0	7,453	1,027	3
Aug-10	219,997	24,977	291	60,355	7,285	0	15,677	2,479	2	15,330	1,841	0	7,388	1,028	0	7,388	1,028	3
Sep-10	221,009	24,997	294	60,861	7,303	0	15,698	2,489	2	15,382	1,848	0	7,399	1,030	0	7,399	1,030	7
Oct-10	222,245	25,108	292	61,604	7,317	0	15,959	2,502	2	15,636	1,864	0	7,541	1,031	0	7,541	1,031	6
Nov-10	223,841	25,238	292	62,290	7,326	0	16,238	2,513	2	15,898	1,872	0	7,591	1,033	0	7,591	1,033	6
Dec-10	224,682	25,309	293	62,973	7,343	0	16,485	2,538	2	16,139	1,882	0	7,661	1,036	0	7,661	1,036	1
Jan-11	227,021	25,353	295	62,548	7,332	0	16,666	2,520	2	16,103	1,883	0	7,720	1,042	0	7,720	1,042	2
Feb-11	227,084	25,437	293	62,717	7,368	0	16,713	2,530	2	16,134	1,884	0	7,727	1,046	0	7,727	1,046	3
Mar-11	227,273	25,413	290	62,674	7,387	0	16,652	2,544	2	16,108	1,883	0	7,720	1,050	0	7,720	1,050	2
Apr-11	227,544	25,453	290	62,679	7,420	0	16,729	2,554	2	16,090	1,880	0	7,659	1,052	0	7,659	1,052	2
May-11	227,221	25,408	288	62,770	7,435	0	16,634	2,539	2	16,043	1,867	0	7,662	1,054	0	7,662	1,054	2

Appendix 2.2 - Customer Forecast - Number by Region
Base Case (Utilized in Cases# 1, # 2 & #3)

	WA / ID	Residential Commercial	Firm Ind.	Residential Commercial	Firm Ind.	Medford	Residential Commercial	Roseburg	Klamath Falls	La Grande	Residential Commercial	Firm Ind.	Firm Ind.
Jun-11	227,719	25,449	291	62,555	7,455	0	16,534	2,534	2	15,878	1,866	0	7,611
Jul-11	228,836	25,652	295	65,683	7,473	0	16,444	2,536	2	15,814	1,866	0	7,644
Aug-11	229,524	25,812	296	62,850	7,487	0	16,452	2,544	2	15,744	1,877	0	7,578
Sep-11	230,580	25,832	299	63,377	7,506	0	16,474	2,554	2	15,798	1,885	0	7,589
Oct-11	231,869	25,947	297	64,150	7,520	0	16,748	2,567	2	16,058	1,901	0	7,734
Nov-11	233,534	26,081	297	64,865	7,529	0	17,041	2,579	2	16,327	1,909	0	7,786
Dec-11	234,412	26,155	298	65,576	7,547	0	17,300	2,605	2	16,574	1,919	0	7,858
Jan-12	236,443	26,174	299	65,092	7,515	0	17,465	2,585	2	16,537	1,916	0	7,915
Feb-12	236,508	26,260	297	65,268	7,551	0	17,514	2,626	2	16,569	1,918	0	7,922
Mar-12	236,705	26,235	294	65,224	7,570	0	17,450	2,609	2	16,542	1,916	0	7,915
Apr-12	236,987	26,278	294	65,229	7,604	0	17,531	2,600	2	16,524	1,913	0	7,852
May-12	236,651	26,231	292	65,323	7,620	0	17,431	2,605	2	16,476	1,900	0	7,855
Jun-12	237,170	26,273	295	65,100	7,641	0	17,327	2,600	2	16,306	1,901	0	7,803
Jul-12	238,333	26,483	299	68,355	7,659	0	17,233	2,601	2	16,240	1,899	0	7,837
Aug-12	239,050	26,647	300	65,407	7,673	0	17,241	2,609	2	16,168	1,910	0	7,769
Sep-12	240,149	26,668	303	65,955	7,693	0	17,264	2,620	2	16,224	1,918	0	7,780
Oct-12	241,492	26,787	301	66,760	7,707	0	17,551	2,633	2	16,491	1,935	0	7,929
Nov-12	243,226	26,925	301	67,504	7,717	0	17,858	2,645	2	16,768	1,943	0	7,982
Dec-12	244,140	27,002	302	68,244	7,735	0	18,129	2,672	2	17,021	1,953	0	8,056
Jan-13	245,757	26,995	302	67,623	7,711	0	18,307	2,660	2	16,992	1,950	0	8,115
Feb-13	245,825	27,084	300	67,806	7,749	0	18,359	2,702	2	17,025	1,953	0	8,123
Mar-13	246,029	27,058	297	67,760	7,768	0	18,292	2,684	2	16,997	1,950	0	8,115
Apr-13	246,323	27,102	297	67,765	7,803	0	18,376	2,674	2	16,979	1,947	0	8,050
May-13	245,974	27,053	295	67,863	7,819	0	18,272	2,679	2	16,929	1,934	0	8,054
Jun-13	246,513	27,097	298	67,631	7,840	0	18,162	2,674	2	16,754	1,935	0	8,000
Jul-13	247,722	27,313	302	71,012	7,859	0	18,064	2,676	2	16,687	1,933	0	8,035
Aug-13	248,467	27,483	303	67,950	7,874	0	18,072	2,684	2	16,613	1,944	0	7,965
Sep-13	249,609	27,505	306	68,519	7,894	0	18,096	2,695	2	16,670	1,953	0	7,977
Oct-13	251,005	27,627	304	69,355	7,909	0	18,397	2,709	2	16,945	1,969	0	8,130
Nov-13	252,807	27,770	304	70,128	7,919	0	18,719	2,721	2	17,229	1,977	0	8,184
Dec-13	253,758	27,849	305	70,897	7,937	0	19,003	2,748	2	17,489	1,988	0	8,259
Jan-14	254,773	27,736	307	70,073	7,941	0	19,149	2,740	2	17,432	1,996	0	8,308
Feb-14	254,844	27,828	305	70,263	7,980	0	19,204	2,783	2	17,465	1,998	0	8,316
Mar-14	255,055	27,802	302	70,215	8,000	0	19,133	2,766	2	17,437	1,996	0	8,308
Apr-14	255,360	27,846	302	70,221	8,036	0	19,221	2,755	2	17,418	1,992	0	8,242
May-14	254,998	27,797	300	70,322	8,053	0	19,113	2,760	2	17,367	1,979	0	8,246
Jun-14	255,556	27,841	303	70,082	8,074	0	18,998	2,755	2	17,188	1,980	0	8,190
Jul-14	256,810	28,064	307	73,585	8,094	0	18,895	2,757	2	17,119	1,978	0	8,226
Aug-14	257,582	28,238	308	70,412	8,109	0	18,904	2,766	2	17,043	1,990	0	8,155
Sep-14	258,767	28,261	311	71,002	8,129	0	18,929	2,777	2	17,102	1,998	0	8,167
Oct-14	260,213	28,386	309	71,869	8,145	0	19,243	2,791	2	17,384	2,015	0	8,323
Nov-14	262,082	28,533	309	72,669	8,155	0	19,580	2,804	2	17,675	2,024	0	8,378
Dec-14	263,067	28,614	310	73,466	8,174	0	19,877	2,832	2	17,942	2,035	0	8,456
Jan-15	263,296	28,478	311	72,615	8,198	0	20,010	2,833	2	17,869	2,050	0	8,483
Feb-15	263,368	28,572	309	72,812	8,238	0	20,067	2,878	2	17,902	2,053	0	8,491
Mar-15	263,587	28,545	306	72,762	8,259	0	19,993	2,859	2	17,874	2,050	0	8,483
Apr-15	263,902	28,591	306	72,768	8,296	0	20,085	2,849	2	17,854	2,047	0	8,415
May-15	263,527	28,540	304	72,873	8,313	0	19,971	2,854	2	17,802	2,033	0	8,419
Jun-15	264,105	28,586	307	72,624	8,336	0	19,852	2,849	2	17,618	2,034	0	8,363
Jul-15	265,400	28,815	311	76,255	8,355	0	19,744	2,850	2	17,548	2,032	0	8,399
Aug-15	266,198	28,993	312	72,966	8,371	0	19,753	2,859	2	17,470	2,044	0	8,326
Sep-15	267,423	29,016	315	73,578	8,392	0	19,779	2,871	2	17,530	2,053	0	8,339
Oct-15	268,918	29,146	313	74,476	8,408	0	20,108	2,886	2	17,819	2,070	0	8,498
Nov-15	270,849	29,296	313	75,306	8,419	0	20,460	2,899	2	18,118	2,079	0	8,555
Dec-15	271,867	29,380	314	76,131	8,439	0	20,771	2,928	2	18,391	2,090	0	8,634

Appendix 2.2 - Customer Forecast - Number by Region
Base Case (Utilized in Cases# 1, # 2 & #3)

WA / ID	Residential		Commercial		Firm Ind.		Medford		Roseburg		Klamath Falls		La Grande	
	Residential	Commercial	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.
Jan-16	271,619	29,220	316	75,211	8,443	0	20,905	2,922	2	18,319	2,103	0	8,661	1,130
Feb-16	271,694	29,317	314	75,415	8,484	0	20,965	2,968	2	18,354	2,106	0	8,669	1,135
Mar-16	271,920	29,289	311	75,363	8,505	0	20,888	2,949	2	18,325	2,103	0	8,661	1,138
Apr-16	272,244	30,336	311	75,369	8,543	0	20,984	2,938	2	18,305	2,099	0	8,592	1,141
May-16	271,858	29,284	309	75,478	8,561	0	20,865	2,943	2	18,251	2,085	0	8,596	1,143
Jun-16	272,454	29,330	312	75,220	8,584	0	20,740	2,938	2	18,063	2,087	0	8,538	1,133
Jul-16	273,790	29,265	316	78,981	8,605	0	20,627	2,939	2	17,991	2,084	0	8,575	1,133
Aug-16	274,613	29,749	317	75,574	8,621	0	20,637	2,949	2	17,910	2,097	0	8,501	1,135
Sep-16	275,877	29,772	320	76,208	8,643	0	20,664	2,961	2	17,972	2,106	0	8,514	1,137
Oct-16	277,119	29,905	318	77,138	8,659	0	21,008	2,976	2	18,269	2,123	0	8,677	1,138
Nov-16	279,411	30,059	318	77,997	8,670	0	21,376	2,989	2	18,575	2,132	0	8,734	1,141
Dec-16	280,461	30,145	319	78,852	8,690	0	21,700	3,019	2	18,855	2,144	0	8,815	1,144
Jan-17	279,246	29,877	318	77,724	8,679	0	21,822	3,004	2	18,773	2,153	0	8,836	1,147
Feb-17	279,323	29,976	316	77,934	8,721	0	21,884	3,051	2	18,809	2,156	0	8,844	1,152
Mar-17	279,555	29,995	313	78,881	8,744	0	20,803	3,032	2	18,779	2,153	0	8,836	1,152
Apr-17	279,888	29,995	313	77,888	8,783	0	21,904	3,020	2	18,758	2,149	0	8,766	1,158
May-17	271,858	29,284	309	78,000	8,801	0	21,780	3,026	2	18,704	2,135	0	8,770	1,161
Jun-17	280,104	29,990	314	77,733	8,825	0	21,649	3,020	2	18,510	2,136	0	8,711	1,151
Jul-17	281,478	30,230	318	81,620	8,846	0	21,532	3,022	2	18,437	2,134	0	8,749	1,151
Aug-17	282,324	30,418	319	78,100	8,862	0	21,542	3,032	2	18,354	2,147	0	8,673	1,152
Sep-17	283,623	30,442	322	78,754	8,885	0	21,570	3,044	2	18,417	2,156	0	8,686	1,155
Oct-17	285,208	30,577	320	79,716	8,902	0	21,929	3,059	2	18,721	2,174	0	8,852	1,156
Nov-17	287,256	30,735	320	80,604	8,913	0	22,313	3,073	2	19,035	2,183	0	8,911	1,158
Dec-17	288,336	30,823	321	81,487	8,934	0	22,651	3,104	2	19,323	2,195	0	8,993	1,162
Jan-18	286,871	30,530	322	80,247	8,930	0	22,745	3,086	2	19,234	2,206	0	9,013	1,165
Feb-18	286,950	30,631	320	80,464	8,973	0	22,810	3,135	2	19,271	2,208	0	9,021	1,170
Mar-18	287,189	30,602	317	80,410	8,996	0	22,726	3,115	2	19,240	2,206	0	9,013	1,174
Apr-18	287,531	30,651	317	80,416	9,037	0	22,831	3,103	2	19,219	2,202	0	8,941	1,176
May-18	287,124	30,596	314	80,532	9,055	0	22,702	3,109	2	19,163	2,187	0	8,945	1,178
Jun-18	287,753	30,645	318	80,247	8,930	0	22,565	3,103	2	18,965	2,188	0	8,885	1,169
Jul-18	289,165	30,890	322	84,269	9,101	0	22,443	3,105	2	18,889	2,186	0	8,923	1,169
Aug-18	290,034	31,082	323	80,635	9,119	0	22,453	3,115	2	18,805	2,199	0	8,846	1,170
Sep-18	291,368	31,107	326	81,311	9,142	0	22,483	3,128	2	18,869	2,208	0	8,859	1,172
Oct-18	292,996	31,245	324	82,303	9,159	0	22,857	3,143	2	19,181	2,227	0	9,029	1,174
Nov-18	295,101	31,407	324	83,220	9,170	0	23,257	3,158	2	19,502	2,236	0	9,089	1,176
Dec-18	296,210	31,496	325	84,132	9,192	0	23,610	3,189	2	19,797	2,248	0	9,173	1,180
Jan-19	294,399	31,183	326	82,796	9,195	0	23,690	3,169	2	19,703	2,262	0	9,191	1,183
Feb-19	294,480	31,286	324	83,020	9,239	0	23,758	3,219	2	19,740	2,264	0	9,199	1,188
Mar-19	294,725	31,256	321	82,964	9,263	0	23,670	3,198	2	19,709	2,262	0	9,191	1,192
Apr-19	295,076	31,307	321	82,970	9,304	0	23,780	3,187	2	19,687	2,257	0	9,117	1,194
May-19	294,658	31,251	318	83,090	9,324	0	23,645	3,193	2	19,630	2,242	0	9,121	1,197
Jun-19	295,304	31,301	322	82,806	9,349	0	23,503	3,187	2	19,427	2,244	0	9,060	1,187
Jul-19	296,752	31,551	326	86,946	9,371	0	23,376	3,188	2	19,349	2,241	0	9,100	1,187
Aug-19	297,644	31,747	327	83,196	9,389	0	23,386	3,198	2	19,263	2,255	0	9,021	1,188
Sep-19	299,014	31,772	330	83,893	9,412	0	23,417	3,212	2	19,329	2,264	0	9,034	1,190
Oct-19	300,685	31,914	328	84,917	9,430	0	23,807	3,228	2	19,648	2,283	0	9,207	1,192
Nov-19	302,844	32,078	328	85,864	9,442	0	24,224	3,243	2	19,977	2,293	0	9,268	1,194
Dec-19	303,983	32,170	329	86,805	9,464	0	24,591	3,275	2	20,279	3,205	0	9,354	1,198
Jan-20	301,926	31,731	328	85,270	9,475	0	24,633	3,258	2	20,152	3,235	0	9,371	1,200
Feb-20	302,009	31,836	326	85,500	9,520	0	24,703	3,309	2	20,190	3,226	0	9,379	1,206
Mar-20	302,260	31,806	323	85,442	9,545	0	24,613	3,288	2	20,158	3,232	0	9,371	1,209
Apr-20	302,620	31,857	323	85,449	9,587	0	24,726	3,276	2	20,136	3,219	0	9,296	1,212
May-20	302,191	31,800	320	85,572	9,607	0	24,586	3,282	2	20,077	3,204	0	9,300	1,214
Jun-20	302,853	31,851	324	85,280	9,633	0	24,439	3,276	2	19,870	3,205	0	9,238	1,204
Jul-20	304,339	32,106	328	89,543	9,656	0	24,306	3,278	2	19,790	3,202	0	9,278	1,204

Appendix 2.2 - Customer Forecast - Number by Region
Base Case (Utilized in Cases# 1, #2 & #3)

WA-ID	Residential Commercial	Firm Ind.	Residential Commercial	Firm Ind.	Medford	Residential Commercial	Firm Ind.	Roseburg	Residential Commercial	Klamath Falls	Residential Commercial	Firm Ind.	La Grande Commercial	Firm Ind.
Aug-20	305,254	32,305	329	85,682	9,674	0	24,317	3,288	2	19,702	2,316	0	9,198	1,208
Sep-20	306,658	32,331	332	86,400	9,699	0	24,350	3,302	2	19,770	2,326	0	9,212	1,208
Oct-20	308,372	32,475	330	87,454	9,717	0	24,754	3,318	2	20,096	2,346	0	9,388	1,209
Nov-20	310,587	32,642	330	88,429	9,729	0	25,188	3,334	2	20,433	2,356	0	9,450	1,212
Dec-20	311,755	32,735	331	89,395	9,752	0	25,570	3,367	2	20,741	2,368	0	9,537	1,216
Jan-21	309,354	32,281	331	87,712	9,737	0	25,572	3,327	2	20,594	2,371	0	9,547	1,216
Feb-21	309,439	32,388	329	87,949	9,784	0	25,645	3,380	2	20,633	2,374	0	9,556	1,222
Mar-21	309,697	32,357	326	87,890	9,809	0	25,551	3,358	2	20,600	2,371	0	9,547	1,225
Apr-21	310,066	32,409	326	87,897	9,853	0	25,669	3,346	2	20,577	2,367	0	9,471	1,228
May-21	309,627	32,351	323	88,023	9,874	0	25,523	3,352	2	20,517	2,351	0	9,475	1,230
Jun-21	310,305	32,403	327	87,722	9,900	0	25,370	3,346	2	20,306	2,352	0	9,412	1,220
Jul-21	311,827	32,663	331	92,108	9,924	0	25,233	3,347	2	20,224	2,349	0	9,453	1,220
Aug-21	312,765	32,865	332	88,136	9,943	0	25,244	3,358	2	20,134	2,364	0	9,371	1,222
Sep-21	314,203	32,891	336	88,874	9,968	0	25,278	3,372	2	20,203	2,374	0	9,385	1,224
Oct-21	315,959	33,038	333	89,959	9,986	0	25,698	3,389	2	20,537	2,397	0	9,564	1,225
Nov-21	318,229	33,208	333	90,962	9,999	0	26,148	3,405	2	20,881	2,404	0	9,628	1,228
Dec-21	319,425	33,303	334	91,959	10,022	0	26,545	3,439	2	21,196	2,417	0	9,717	1,232
Jan-22	316,287	32,830	334	90,195	10,008	0	26,540	3,409	2	21,046	2,427	0	9,726	1,233
Feb-22	316,374	32,939	332	90,439	10,057	0	26,615	3,462	2	21,085	2,429	0	9,735	1,238
Mar-22	316,637	32,908	329	90,378	10,083	0	26,518	3,440	2	21,052	2,427	0	9,726	1,242
Apr-22	317,015	32,861	329	90,385	10,128	0	26,640	3,428	2	21,029	2,422	0	9,648	1,245
May-22	316,565	32,902	326	90,515	10,149	0	26,489	3,434	2	20,967	2,406	0	9,653	1,247
Jun-22	317,259	32,295	330	90,206	10,176	0	26,330	3,428	2	20,751	2,408	0	9,588	1,237
Jul-22	318,815	33,218	334	94,716	10,200	0	26,187	3,429	2	20,668	2,405	0	9,630	1,237
Aug-22	319,774	33,124	335	90,631	10,220	0	26,200	3,440	2	20,576	2,419	0	9,546	1,238
Sep-22	321,245	33,451	339	91,391	10,245	0	26,234	3,454	2	20,646	2,429	0	9,561	1,241
Oct-22	323,040	33,600	336	92,506	10,265	0	26,670	3,472	2	20,987	2,450	0	9,743	1,242
Nov-22	325,360	33,773	336	93,537	10,278	0	27,137	3,488	2	21,339	2,460	0	9,808	1,245
Dec-22	326,584	33,870	337	94,562	10,302	0	27,549	3,523	2	21,661	2,473	0	9,899	1,249
Jan-23	323,221	33,329	337	92,584	10,283	0	27,154	3,489	2	21,509	2,485	0	9,907	1,250
Feb-23	323,310	33,440	335	92,834	10,333	0	27,620	3,544	2	21,550	2,488	0	9,916	1,255
Mar-23	323,579	33,408	332	92,771	10,359	0	27,519	3,522	2	21,516	2,485	0	9,907	1,259
Apr-23	323,965	33,462	332	92,779	10,406	0	27,646	3,509	2	21,492	2,481	0	9,828	1,261
May-23	323,505	33,402	329	92,919	10,427	0	27,489	3,515	2	21,429	2,464	0	9,833	1,264
Jun-23	324,214	33,555	333	92,595	10,455	0	27,324	3,509	2	21,208	2,466	0	9,767	1,254
Jul-23	325,805	33,723	337	97,224	10,480	0	27,176	3,510	2	21,123	2,463	0	9,809	1,254
Aug-23	326,784	33,532	338	93,031	10,500	0	27,189	3,522	2	21,029	2,478	0	9,724	1,255
Sep-23	328,287	33,595	342	93,811	10,527	0	27,225	3,536	2	21,101	2,488	0	9,739	1,257
Oct-23	340,110	34,110	339	94,956	10,547	0	27,677	3,554	2	21,450	2,509	0	9,925	1,259
Nov-23	332,493	34,287	339	96,014	10,560	0	28,162	3,570	2	21,809	2,519	0	9,991	1,261
Dec-23	333,484	34,355	340	97,066	10,585	0	27,324	3,509	2	21,208	2,466	0	9,767	1,254
Jan-24	331,169	33,957	335	95,019	10,727	0	28,347	3,586	2	22,139	2,533	0	10,083	1,265
Feb-24	330,155	33,829	339	95,007	10,551	0	28,573	3,566	2	21,982	2,542	0	10,091	1,264
Mar-24	330,246	33,941	337	95,264	10,602	0	28,654	3,622	2	22,024	2,545	0	10,100	1,270
Apr-24	333,794	34,441	340	95,466	10,773	0	28,193	3,587	2	21,492	2,534	0	9,904	1,270
Sep-24	335,330	34,468	344	96,266	10,800	0	28,244	3,614	2	21,565	2,545	0	10,091	1,274
Oct-24	337,204	34,622	341	97,441	10,821	0	28,714	3,632	2	21,921	2,566	0	10,108	1,276
May-24	330,445	33,903	331	95,344	10,698	0	28,518	3,592	2	21,900	2,520	0	10,014	1,279
Jun-24	331,169	33,957	335	95,019	10,727	0	28,347	3,586	2	21,674	2,522	0	9,947	1,268
Jul-24	332,794	34,229	339	99,769	10,753	0	28,193	3,587	2	21,588	2,519	0	10,091	1,268
Aug-24	333,794	34,441	340	95,466	10,773	0	28,207	3,599	2	21,492	2,534	0	9,904	1,270
Mar-24	330,520	33,909	334	96,200	10,629	0	28,649	3,599	2	21,989	2,545	0	10,091	1,274
Apr-24	330,914	33,463	334	95,207	10,676	0	28,681	3,586	2	21,965	2,537	0	10,010	1,276
May-24	330,445	33,903	331	95,344	10,698	0	28,518	3,592	2	21,900	2,520	0	10,014	1,279
Jun-24	331,169	33,957	335	95,019	10,727	0	28,347	3,586	2	21,674	2,522	0	9,947	1,268
Jul-24	332,794	34,229	339	99,769	10,753	0	28,193	3,587	2	21,588	2,519	0	10,091	1,268
Aug-24	333,794	34,441	340	95,466	10,773	0	28,207	3,599	2	21,492	2,534	0	9,904	1,270
Sep-24	335,330	34,468	344	96,266	10,800	0	28,244	3,614	2	21,565	2,545	0	10,091	1,274
Oct-24	337,204	34,622	341	97,441	10,821	0	28,714	3,632	2	21,921	2,566	0	10,108	1,276
May-24	330,626	34,801	341	98,527	10,834	0	29,216	3,649	2	22,289	2,577	0	10,176	1,276
Dec-24	340,903	34,900	342	99,607	10,860	0	29,659	3,685	2	22,625	2,591	0	10,270	1,280
Jan-25	337,888	34,329	342	97,524	10,802	0	29,656	3,637	2	22,477	2,596	0	10,281	1,279
Feb-25	337,181	34,442	340	97,788	10,854	0	29,741	3,695	2	22,520	2,599	0	10,290	1,284

Appendix 2.2 - Customer Forecast - Number by Region
Base Case (Utilized in Cases#1, #2 & #3)

	WA / ID	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Roseburg	Commercial	Firm Ind.	Residential	Klamath Falls	Commercial	Firm Ind.	Residential	La Grande	Commercial	Firm Ind.
Mar-25	337,462	34,410	337	97,721	10,882	0	29,631	3,671	2	22,484	2,596	0	10,281	1,288	2	0	10,199	1,291	2
Apr-25	337,864	34,465	337	97,729	10,930	0	29,768	3,658	2	22,459	2,591	0	10,203	1,293	2	0	10,135	1,283	2
May-25	337,385	34,404	334	97,870	10,953	0	29,800	3,665	2	22,393	2,574	0	10,179	1,284	3	0	10,106	1,287	3
Jun-25	338,124	34,459	338	97,536	10,983	0	29,422	3,658	2	22,162	2,576	0	10,135	1,283	2	0	10,091	1,284	3
Jul-25	339,783	34,734	342	102,412	11,009	0	29,262	3,659	2	22,074	2,572	0	10,091	1,284	3	0	10,066	1,288	7
Aug-25	340,805	34,950	343	97,995	11,030	0	29,276	3,671	2	21,975	2,588	0	10,091	1,284	3	0	10,066	1,288	7
Sep-25	342,372	34,978	347	98,816	11,057	0	29,315	3,686	2	22,051	2,599	0	10,106	1,287	7	0	10,091	1,284	3
Oct-25	344,286	35,133	344	100,023	11,078	0	29,802	3,705	2	22,415	2,621	0	10,299	1,288	7	0	10,367	1,291	6
Nov-25	346,759	35,315	344	101,137	11,092	0	30,324	3,722	2	22,790	2,632	0	10,463	1,295	1	0	10,463	1,295	1
Dec-25	348,062	35,416	345	102,246	11,118	0	30,784	3,759	2	23,135	2,646	0	10,281	1,279	2	0	10,290	1,284	3
Jan-26	337,088	34,329	342	97,524	10,802	0	29,656	3,637	2	22,477	2,596	0	10,281	1,284	3	0	10,281	1,284	3
Feb-26	337,181	34,442	340	97,788	10,854	0	29,741	3,695	2	22,520	2,599	0	10,281	1,284	3	0	10,281	1,284	3
Mar-26	337,462	34,410	337	97,721	10,882	0	29,631	3,671	2	22,484	2,596	0	10,281	1,284	3	0	10,281	1,284	3
Apr-26	337,864	34,465	337	97,729	10,930	0	29,768	3,658	2	22,459	2,591	0	10,199	1,291	2	0	10,203	1,293	2
May-26	337,385	34,404	334	97,870	10,953	0	29,600	3,665	2	22,393	2,574	0	10,135	1,283	2	0	10,179	1,283	3
Jun-26	338,124	34,459	338	97,536	10,983	0	29,422	3,658	2	22,162	2,576	0	10,091	1,284	3	0	10,066	1,288	7
Jul-26	339,783	34,734	342	102,412	11,009	0	29,262	3,659	2	22,074	2,572	0	10,091	1,284	3	0	10,066	1,288	7
Aug-26	340,805	34,950	343	97,995	11,030	0	29,276	3,671	2	21,975	2,588	0	10,091	1,284	3	0	10,066	1,288	7
Sep-26	342,372	34,978	347	98,816	11,057	0	29,315	3,686	2	22,051	2,599	0	10,106	1,287	7	0	10,299	1,288	7
Oct-26	344,286	35,133	344	100,023	11,078	0	29,802	3,705	2	22,415	2,621	0	10,299	1,288	7	0	10,367	1,291	6

Appendix 2.2 - Customer Forecast - Number by Region
Low Growth Case (Utilized in Cases #4, #5 & #6)

WA/ID		Residential		Commercial		Medford		Roseburg		Klamath Falls		La Grande		
Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.
Nov-06	186,944	21,377	269	50,428	6,278	0	13,037	2,173	2	13,674	1,662	0	6,740	956
Dec-06	187,302	21,408	269	50,712	6,286	0	13,138	2,184	2	13,779	1,667	0	6,772	957
Jan-07	187,742	21,478	271	50,804	6,320	0	13,191	2,186	2	13,829	1,673	0	6,799	959
Feb-07	187,767	21,513	270	50,872	6,335	0	13,209	2,203	2	13,842	1,674	0	6,802	961
Mar-07	187,894	21,503	269	50,855	6,343	0	13,210	2,196	2	13,831	1,673	0	6,799	962
Apr-07	188,005	21,520	269	50,857	6,357	0	13,215	2,192	2	13,823	1,672	0	6,772	963
May-07	187,923	21,501	268	50,893	6,363	0	13,153	2,194	2	13,803	1,666	0	6,774	964
Jun-07	188,126	21,518	269	50,807	6,372	0	13,139	2,192	2	13,733	1,667	0	6,751	960
Jul-07	188,632	21,616	270	52,054	6,379	0	13,104	2,192	2	13,706	1,666	0	6,766	960
Aug-07	188,962	21,682	271	50,925	6,385	0	13,107	2,196	2	13,676	1,671	0	6,737	961
Sep-07	189,493	21,691	272	51,135	6,393	0	13,116	2,200	2	13,699	1,674	0	6,742	962
Oct-07	190,068	21,739	271	51,443	6,399	0	13,223	2,206	2	13,810	1,681	0	6,805	962
Nov-07	190,747	21,795	271	51,728	6,403	0	13,337	2,211	2	13,924	1,685	0	6,828	963
Dec-07	191,105	21,826	272	52,012	6,411	0	13,463	2,222	2	14,029	1,689	0	6,859	965
Jan-08	191,840	21,904	273	52,070	6,442	0	13,547	2,228	2	14,078	1,697	0	6,899	968
Feb-08	191,867	21,942	272	52,145	6,458	0	13,567	2,246	2	14,091	1,698	0	6,902	970
Mar-08	191,950	21,931	271	52,126	6,467	0	13,541	2,238	2	14,080	1,697	0	6,899	972
Apr-08	192,070	21,950	271	52,128	6,482	0	13,574	2,234	2	14,072	1,696	0	6,870	973
May-08	191,928	21,929	270	52,168	6,489	0	13,533	2,236	2	14,050	1,690	0	6,872	974
Jun-08	192,147	21,948	271	52,074	6,498	0	13,490	2,234	2	13,975	1,690	0	6,848	970
Jul-08	192,640	22,039	273	53,449	6,506	0	13,452	2,235	2	13,946	1,689	0	6,863	970
Aug-08	192,943	22,111	273	52,203	6,513	0	13,455	2,238	2	13,913	1,695	0	6,833	971
Sep-08	193,409	22,120	275	52,435	6,521	0	13,464	2,243	2	13,938	1,698	0	6,838	971
Oct-08	193,977	22,172	274	52,775	6,528	0	13,582	2,249	2	14,057	1,706	0	6,905	972
Nov-08	194,712	22,232	274	53,090	6,532	0	13,708	2,254	2	14,180	1,709	0	6,929	973
Dec-08	195,099	22,266	274	53,402	6,540	0	13,819	2,266	2	14,293	1,714	0	6,952	974
Jan-09	196,056	22,330	275	53,363	6,554	0	13,839	2,263	2	14,328	1,720	0	7,000	977
Feb-09	196,085	22,369	274	53,441	6,571	0	13,961	2,282	2	14,342	1,722	0	7,003	979
Mar-09	196,172	22,358	273	53,421	6,580	0	13,933	2,274	2	14,330	1,720	0	7,000	981
Apr-09	196,296	22,377	273	53,424	6,595	0	13,968	2,270	2	14,322	1,719	0	6,970	982
May-09	196,148	22,386	272	53,465	6,603	0	13,925	2,272	2	14,300	1,713	0	6,972	983
Jun-09	196,377	22,375	273	53,366	6,612	0	13,879	2,270	2	14,221	1,713	0	6,948	978
Jul-09	196,890	22,470	275	54,806	6,620	0	13,839	2,270	2	14,191	1,712	0	6,963	978
Aug-09	197,206	22,544	275	53,502	6,627	0	13,842	2,274	2	14,158	1,718	0	6,932	979
Sep-09	197,692	22,554	277	53,745	6,636	0	13,852	2,279	2	14,184	1,722	0	6,937	980
Oct-09	198,284	22,608	276	54,101	6,643	0	13,976	2,285	2	14,307	1,729	0	7,006	981
Nov-09	199,049	22,670	276	54,430	6,647	0	14,109	2,291	2	14,434	1,733	0	7,031	982
Dec-09	199,453	22,705	276	54,757	6,655	0	14,227	2,303	2	14,550	1,738	0	7,065	983
Jan-10	200,520	22,755	278	54,597	6,656	0	14,321	2,299	2	14,564	1,744	0	7,096	986
Feb-10	200,550	22,796	277	54,678	6,673	0	14,344	2,319	2	14,579	1,745	0	7,099	988
Mar-10	200,640	22,784	276	54,101	6,682	0	14,315	2,311	2	14,567	1,744	0	7,096	989
Apr-10	200,770	22,804	276	54,660	6,699	0	14,351	2,306	2	14,558	1,742	0	7,066	991
May-10	200,615	22,782	275	54,703	6,706	0	14,306	2,309	2	14,535	1,736	0	7,068	992
Jun-10	200,854	22,802	276	54,600	6,716	0	14,259	2,306	2	14,455	1,737	0	7,043	987
Jul-10	201,389	22,900	278	56,102	6,724	0	14,216	2,307	2	14,424	1,736	0	7,059	987
Aug-10	201,719	22,977	278	54,742	6,731	0	14,220	2,311	2	14,389	1,741	0	7,027	988
Sep-10	202,225	22,987	280	54,995	6,740	0	14,230	2,316	2	14,416	1,745	0	7,032	989
Oct-10	202,843	23,043	279	55,366	6,747	0	14,360	2,322	2	14,543	1,753	0	7,103	989
Nov-10	203,641	23,108	279	55,709	6,752	0	14,500	2,328	2	14,674	1,757	0	7,128	991
Dec-10	204,062	23,144	279	56,051	6,761	0	14,623	2,341	2	14,794	1,762	0	7,163	992
Jan-11	205,231	23,165	280	55,838	6,755	0	14,714	2,332	2	14,776	1,763	0	7,193	995
Feb-11	205,262	23,207	280	55,922	6,773	0	14,738	2,352	2	14,791	1,764	0	7,196	997
Mar-11	205,357	23,195	278	55,901	6,782	0	14,707	2,343	2	14,778	1,763	0	7,193	999
Apr-11	205,492	23,216	278	55,904	6,779	0	14,745	2,339	2	14,770	1,761	0	7,162	1,000
May-11	205,331	23,193	277	55,949	6,806	0	14,698	2,341	2	14,746	1,755	0	7,164	1,001

Appendix 2.2 - Customer Forecast - Number by Region
Low Growth Case (Utilized in Cases #4, #5 & #6)

WA/ID		Residential		Commercial		Firm Ind.		Residential		Commercial		Firm Ind.		Residential		Commercial		Firm Ind.		Firm Ind.		Firm Ind.		Firm Ind.			
Jun-11	205,580	23,213	279	55,842	6,816	0	14,648	2,339	2	14,663	1,755	0	7,138	997	0	7,154	997	0	7,121	997	0	7,127	998	0	7,225	1,000	0
Jul-11	206,139	23,315	280	57,405	6,825	0	14,603	2,339	2	14,632	1,754	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Aug-11	206,483	23,395	281	55,989	6,832	0	14,607	2,343	2	14,596	1,760	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Sep-11	207,010	23,405	282	56,252	6,842	0	14,618	2,349	2	14,623	1,764	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Oct-11	207,655	23,462	281	56,639	6,849	0	14,755	2,355	2	14,754	1,772	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Nov-11	208,487	23,530	281	56,996	6,854	0	14,901	2,361	2	14,888	1,776	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Dec-11	208,926	23,567	282	57,352	6,863	0	15,031	2,374	2	15,012	1,781	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Jan-12	209,442	23,576	282	57,110	6,846	0	15,113	2,364	2	14,993	1,779	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Feb-12	209,975	23,619	282	57,198	6,865	0	15,138	2,385	2	15,009	1,780	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Mar-12	210,073	23,607	280	57,176	6,874	0	15,106	2,376	2	14,996	1,779	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Apr-12	210,214	23,628	280	57,179	6,891	0	15,146	2,371	2	14,986	1,777	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
May-12	210,046	23,604	279	57,226	6,899	0	15,097	2,374	2	14,962	1,777	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Jun-12	210,305	23,625	281	57,114	6,909	0	15,044	2,371	2	14,877	1,772	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Jul-12	210,887	23,730	282	58,741	6,918	0	14,997	2,372	2	14,845	1,770	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Aug-12	211,245	23,813	283	57,267	6,926	0	15,001	2,376	2	14,809	1,776	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Sep-12	211,795	23,882	284	57,541	6,935	0	15,013	2,382	2	14,836	1,780	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Oct-12	212,466	23,882	283	57,944	6,943	0	15,156	2,388	2	14,970	1,788	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Nov-12	213,334	23,952	283	58,316	6,947	0	15,310	2,394	2	15,108	1,792	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Dec-12	213,791	23,990	284	58,686	6,956	0	15,445	2,407	2	15,235	1,798	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Jan-13	214,599	23,986	284	58,375	6,945	0	15,535	2,401	2	15,221	1,796	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Feb-13	214,633	24,031	283	58,467	6,963	0	15,561	2,422	2	15,237	1,797	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Mar-13	214,735	24,018	282	58,444	6,973	0	15,527	2,414	2	15,223	1,796	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Apr-13	214,882	24,040	282	58,447	6,991	0	15,569	2,409	2	15,214	1,794	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
May-13	214,707	24,016	280	58,495	6,999	0	15,517	2,411	2	15,189	1,788	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Jun-13	214,977	24,037	282	58,380	7,009	0	15,462	2,409	2	15,102	1,789	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Jul-13	215,581	24,146	284	60,079	7,019	0	15,413	2,409	2	15,068	1,787	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Aug-13	215,954	24,230	284	58,539	7,026	0	15,417	2,414	2	15,031	1,793	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Sep-13	216,525	24,018	282	58,823	7,036	0	15,429	2,419	2	15,060	1,797	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Oct-13	217,223	24,303	285	59,242	7,043	0	15,580	2,426	2	15,197	1,806	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Nov-13	218,374	24,374	285	59,628	7,048	0	15,741	2,432	2	15,339	1,810	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Dec-13	218,599	24,413	285	60,012	7,058	0	15,883	2,446	2	15,469	1,815	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Jan-14	219,107	24,357	286	59,601	7,060	0	15,956	2,442	2	15,441	1,819	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Feb-14	219,142	24,403	286	59,695	7,079	0	15,983	2,443	2	15,457	1,820	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Mar-14	219,248	24,390	284	59,672	7,089	0	15,948	2,454	2	15,443	1,819	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Apr-14	219,400	24,412	284	59,674	7,107	0	15,992	2,449	2	15,434	1,817	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
May-14	219,219	24,387	283	59,725	7,115	0	15,937	2,452	2	15,408	1,811	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Jun-14	219,499	24,410	285	59,605	7,126	0	15,880	2,449	2	15,319	1,811	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Jul-14	220,126	24,521	286	61,357	7,136	0	15,828	2,442	2	15,284	1,810	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Aug-14	220,512	24,608	287	59,770	7,143	0	15,833	2,454	2	15,246	1,816	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Sep-14	221,104	24,619	289	60,065	7,154	0	15,845	2,460	2	15,275	1,820	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Oct-14	221,827	24,682	287	60,498	7,161	0	16,003	2,467	2	15,416	1,829	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Nov-14	222,762	24,756	287	60,899	7,166	0	16,171	2,473	2	15,626	1,833	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0	7,225	1,000	0
Dec-14	223,254	24,796	288	61,297	7,176	0	16,320	2,487	2	15,696	1,838	0	7,154	997	0	7,121	997	0	7,127	998	0	7,200	999	0			

Appendix 2.2 - Customer Forecast - Number by Region
Low Growth Case (Utilized in Cases #4, #5 & #6)

WA/ID	Residential		Commercial		Firm Ind.		Medford		Roseburg		Klamath Falls		La Grande		
	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.
Jan-16	227,530	25,099	291	62,169	7,310	0	16,834	2,532	2	15,884	1,873	0	7,663	1,039	2
Feb-16	227,567	25,147	290	62,271	7,331	0	16,863	2,555	2	15,902	1,874	0	7,667	1,041	3
Mar-16	227,680	25,134	288	62,246	7,342	0	16,825	2,546	2	15,887	1,873	0	7,663	1,043	2
Apr-16	227,843	25,157	288	62,249	7,361	0	16,873	2,540	2	15,877	1,874	0	7,629	1,044	2
May-16	227,650	25,131	287	62,303	7,370	0	16,814	2,543	2	15,850	1,864	0	7,630	1,045	2
Jun-16	227,947	25,154	289	62,174	7,381	0	16,751	2,540	2	15,756	1,864	0	7,602	1,041	2
Jul-16	228,616	25,212	291	64,054	7,391	0	16,695	2,541	2	15,720	1,863	0	7,620	1,041	3
Aug-16	229,027	25,363	291	62,351	7,399	0	16,700	2,546	2	15,680	1,869	0	7,583	1,041	3
Sep-16	229,659	25,375	293	62,668	7,410	0	16,713	2,552	2	15,710	1,874	0	7,589	1,042	7
Oct-16	230,430	25,441	292	63,133	7,418	0	16,885	2,559	2	15,859	1,883	0	7,671	1,043	7
Nov-16	231,426	25,519	292	63,563	7,424	0	17,069	2,566	2	16,012	1,887	0	7,700	1,044	6
Dec-16	231,951	25,561	293	63,990	7,434	0	17,231	2,581	2	16,152	1,893	0	7,740	1,046	1
Jan-17	231,343	25,427	292	63,426	7,429	0	17,292	2,573	2	16,111	1,898	0	7,751	1,048	2
Feb-17	231,382	25,477	291	63,531	7,450	0	17,323	2,597	2	16,129	1,899	0	7,755	1,050	3
Mar-17	231,498	25,463	289	63,505	7,461	0	17,283	2,587	2	16,114	1,898	0	7,751	1,052	2
Apr-17	231,665	25,487	289	63,508	7,480	0	17,333	2,582	2	16,104	1,896	0	7,715	1,053	2
May-17	227,650	25,131	287	63,564	7,489	0	17,271	2,584	2	16,076	1,889	0	7,717	1,054	2
Jun-17	231,772	25,484	290	63,431	7,501	0	17,205	2,582	2	15,980	1,889	0	7,688	1,049	2
Jul-17	234,459	25,604	292	65,374	7,512	0	17,147	2,582	2	15,943	1,888	0	7,707	1,049	3
Aug-17	232,883	25,698	292	63,614	7,520	0	17,152	2,587	2	15,902	1,894	0	7,669	1,050	3
Sep-17	233,532	25,710	294	63,941	7,531	0	17,166	2,594	2	15,933	1,899	0	7,676	1,051	7
Oct-17	234,325	25,778	293	64,422	7,540	0	17,345	2,601	2	16,085	1,908	0	7,759	1,052	7
Nov-17	235,349	25,857	293	64,866	7,545	0	17,337	2,608	2	16,242	1,913	0	7,788	1,053	6
Dec-17	235,889	25,900	294	65,308	7,556	0	17,707	2,624	2	16,386	1,918	0	7,829	1,055	1
Jan-18	235,156	25,754	294	64,688	7,554	0	17,754	2,614	2	16,342	1,924	0	7,839	1,057	2
Feb-18	235,196	25,804	293	64,796	7,576	0	17,786	2,639	2	16,360	1,925	0	7,843	1,059	3
Mar-18	235,315	25,790	291	64,769	7,587	0	17,744	2,629	2	16,344	1,924	0	7,839	1,061	2
Apr-18	235,486	25,815	291	64,772	7,607	0	17,796	2,623	2	16,334	1,922	0	7,803	1,062	2
May-18	235,282	25,787	290	64,830	7,617	0	17,732	2,626	2	16,306	1,913	0	7,805	1,063	2
Jun-18	235,597	25,812	292	64,692	7,629	0	17,664	2,623	2	16,207	1,915	0	7,775	1,065	2
Jul-18	236,303	25,934	294	66,699	7,640	0	17,602	2,624	2	16,169	1,914	0	7,794	1,066	3
Aug-18	236,737	26,030	294	64,881	7,648	0	17,608	2,629	2	16,127	1,921	0	7,755	1,069	3
Sep-18	237,404	26,042	296	65,219	7,660	0	17,623	2,635	2	16,159	1,925	0	7,762	1,060	7
Oct-18	238,219	26,112	295	66,668	7,668	0	17,810	2,643	2	16,315	1,935	0	7,847	1,061	7
Nov-18	239,271	26,192	295	66,174	7,674	0	18,010	2,650	2	16,476	1,939	0	7,877	1,062	6
Dec-18	239,826	26,237	296	66,630	7,685	0	18,186	2,666	2	16,623	1,945	0	7,919	1,064	1
Jan-19	238,920	26,080	296	65,962	7,686	0	18,226	2,656	2	16,576	1,952	0	7,928	1,066	2
Feb-19	238,960	26,132	295	66,074	7,709	0	18,260	2,681	2	16,595	1,953	0	7,932	1,068	3
Mar-19	239,083	26,117	293	66,046	7,720	0	18,216	2,671	2	16,579	1,952	0	7,928	1,070	2
Apr-19	239,259	26,142	293	66,049	7,741	0	18,271	2,665	2	16,568	1,950	0	7,891	1,071	2
May-19	239,550	26,114	292	66,109	7,751	0	18,203	2,668	2	16,539	1,944	0	7,893	1,072	2
Jun-19	239,372	26,139	294	65,967	7,763	0	18,132	2,665	2	16,438	1,943	0	7,863	1,067	2
Jul-19	240,097	26,285	296	68,037	7,774	0	18,069	2,666	2	16,399	1,942	0	7,882	1,067	3
Aug-19	240,543	26,363	296	66,162	7,783	0	18,074	2,671	2	16,356	1,948	0	7,843	1,068	3
Sep-19	241,227	26,375	298	66,511	7,795	0	18,090	2,677	2	16,389	1,953	0	7,850	1,069	7
Oct-19	242,063	26,446	297	67,023	7,804	0	18,284	2,685	2	16,549	1,963	0	7,936	1,070	7
Nov-19	243,143	26,528	297	67,496	7,810	0	18,493	2,693	2	16,713	1,967	0	7,967	1,071	6
Dec-19	243,712	26,574	298	67,966	7,821	0	18,677	2,709	2	16,864	1,974	0	8,009	1,073	1
Jan-20	242,683	26,355	297	67,199	7,826	0	18,698	2,700	2	16,800	1,983	0	8,018	1,074	2
Feb-20	242,725	26,407	296	67,314	7,849	0	18,733	2,726	2	16,820	1,984	0	8,022	1,077	3
Mar-20	242,850	26,392	294	67,285	7,861	0	18,687	2,716	2	16,803	1,983	0	8,018	1,079	2
Apr-20	243,031	26,417	294	67,289	7,883	0	18,744	2,710	2	16,792	1,981	0	7,981	1,080	2
May-20	242,816	26,389	293	67,350	7,893	0	18,674	2,713	2	16,763	1,973	0	7,983	1,081	2
Jun-20	243,147	26,414	295	67,204	7,906	0	18,600	2,710	2	16,659	1,974	0	7,951	1,076	2
Jul-20	243,890	26,542	297	69,336	7,917	0	18,534	2,710	2	16,620	1,972	0	7,972	1,076	3

**Appendix 2.2 - Customer Forecast - Number by Region
Low Growth Case (Utilized in Cases #4, #5 & #6)**

WA/ID		Residential Commercial		Firm Ind.		Medford Residential Commercial		Roseburg Residential Commercial		Klamath Falls Residential Commercial		Firm Ind.		Residential Commercial		La Grande Residential Commercial		Firm Ind.	
Aug-20	244,348	26,642	297	67,405	7,926	0	18,540	2,716	2	16,576	1,979	0	7,931	1,077	3	0	7,938	1,078	3
Sep-20	245,050	26,654	299	67,764	7,938	0	18,556	2,722	2	16,609	1,984	0	7,948	1,077	3	0	7,938	1,078	3
Oct-20	245,907	26,726	298	68,291	7,948	0	18,758	2,731	2	16,773	1,994	0	8,026	1,079	7	0	8,026	1,079	7
Nov-20	247,014	26,810	298	68,778	7,954	0	18,975	2,738	2	16,941	1,999	0	8,058	1,080	6	0	8,058	1,080	6
Dec-20	247,598	26,857	299	69,263	7,965	0	19,166	2,755	2	17,095	2,005	0	8,106	1,082	1	0	8,106	1,082	1
Jan-21	246,398	26,630	298	68,420	7,958	0	19,167	2,735	2	17,021	2,006	0	8,106	1,082	2	0	8,106	1,082	2
Feb-21	246,440	26,683	298	68,539	7,981	0	19,204	2,761	2	17,041	2,008	0	8,110	1,085	3	0	8,110	1,085	3
Mar-21	246,569	26,668	296	68,509	7,994	0	19,156	2,751	2	17,024	2,006	0	8,106	1,087	2	0	8,106	1,087	2
Apr-21	246,754	26,694	296	68,512	8,016	0	19,215	2,744	2	17,013	2,004	0	8,068	1,088	2	0	8,068	1,088	2
May-21	246,534	26,665	295	68,576	8,026	0	19,143	2,747	2	16,983	1,996	0	8,070	1,089	2	0	8,070	1,089	2
Jun-21	246,873	26,691	296	68,425	8,039	0	19,066	2,744	2	16,877	1,997	0	8,038	1,084	2	0	8,038	1,084	2
Jul-21	247,634	26,820	298	70,632	8,051	0	18,997	2,745	2	16,837	1,996	0	8,059	1,084	3	0	8,059	1,084	3
Aug-21	248,103	26,922	299	68,632	8,060	0	19,003	2,751	2	16,792	2,003	0	8,018	1,085	3	0	8,018	1,085	3
Sep-21	248,822	26,335	301	69,001	8,073	0	19,020	2,758	2	16,826	2,008	0	8,025	1,086	7	0	8,025	1,086	7
Oct-21	249,700	27,008	300	69,544	8,082	0	19,230	2,766	2	16,993	2,013	0	8,115	1,087	7	0	8,115	1,087	7
Nov-21	250,835	27,093	300	70,045	8,088	0	19,455	2,774	2	17,165	2,023	0	8,146	1,088	6	0	8,146	1,088	6
Dec-21	251,433	27,141	300	70,543	8,100	0	19,653	2,791	2	17,323	2,029	0	8,191	1,090	1	0	8,191	1,090	1
Jan-22	249,864	26,904	300	69,662	8,093	0	19,551	2,776	2	17,247	2,034	0	8,196	1,091	2	0	8,196	1,091	2
Feb-22	249,708	26,959	299	69,784	8,117	0	19,689	2,803	2	17,267	2,036	0	8,200	1,093	3	0	8,200	1,093	3
Mar-22	250,039	26,943	297	69,753	8,130	0	19,640	2,792	2	17,250	2,034	0	8,196	1,095	2	0	8,196	1,095	2
Apr-22	250,228	26,969	297	69,757	8,153	0	19,701	2,785	2	17,239	2,032	0	8,157	1,096	2	0	8,157	1,096	2
May-22	250,003	26,940	296	69,822	8,163	0	19,626	2,788	2	17,208	2,024	0	8,159	1,098	2	0	8,159	1,098	2
Jun-22	250,350	26,966	298	69,667	8,177	0	19,546	2,785	2	17,100	2,025	0	8,126	1,093	2	0	8,126	1,093	2
Jul-22	251,128	27,098	300	71,922	8,189	0	19,475	2,786	2	17,058	2,023	0	8,147	1,093	3	0	8,147	1,093	3
Aug-22	251,607	27,201	300	69,880	8,199	0	19,481	2,792	2	17,012	2,031	0	8,106	1,093	3	0	8,106	1,093	3
Sep-22	252,343	27,214	302	70,259	8,212	0	19,498	2,799	2	17,048	2,036	0	8,113	1,094	7	0	8,113	1,094	7
Oct-22	253,241	27,289	301	70,817	8,221	0	19,716	2,807	2	17,218	2,046	0	8,204	1,095	7	0	8,204	1,095	7
Nov-22	254,401	27,316	301	71,333	8,228	0	19,950	2,815	2	17,394	2,051	0	8,237	1,096	6	0	8,237	1,096	6
Dec-22	255,012	27,424	302	71,845	8,240	0	20,156	2,833	2	17,555	2,058	0	8,282	1,098	1	0	8,282	1,098	1
Jan-23	255,331	27,154	301	70,856	8,231	0	20,152	2,816	2	17,479	2,064	0	8,286	1,099	2	0	8,286	1,099	2
Feb-23	253,375	27,209	301	70,255	8,255	0	20,191	2,844	2	17,500	2,065	0	8,291	1,101	3	0	8,291	1,101	3
Mar-23	253,510	27,193	299	70,950	8,269	0	20,140	2,832	2	17,482	2,064	0	8,286	1,103	2	0	8,286	1,103	2
Apr-23	253,703	27,220	299	70,953	8,292	0	20,204	2,826	2	17,471	2,061	0	8,247	1,105	2	0	8,247	1,105	2
May-23	253,473	27,190	298	71,020	8,303	0	20,126	2,829	2	17,439	2,053	0	8,249	1,106	2	0	8,249	1,106	2
Jun-23	253,828	27,217	299	70,861	8,317	0	20,043	2,826	2	17,329	2,054	0	8,216	1,101	2	0	8,216	1,101	2
Jul-23	254,623	27,350	301	73,176	8,329	0	19,969	2,827	2	17,286	2,052	0	8,237	1,101	3	0	8,237	1,101	3
Aug-23	255,113	27,455	302	71,080	8,339	0	19,975	2,832	2	17,239	2,060	0	8,195	1,101	3	0	8,195	1,101	3
Sep-23	255,864	27,469	304	71,469	8,352	0	19,993	2,840	2	17,275	2,065	0	8,202	1,103	7	0	8,202	1,103	7
Oct-23	256,782	27,544	303	72,042	8,362	0	20,220	2,848	2	17,449	2,075	0	8,295	1,103	7	0	8,295	1,103	7
Nov-23	257,967	27,632	303	72,571	8,336	0	20,462	2,857	2	17,629	2,081	0	8,328	1,105	6	0	8,328	1,105	6
Dec-23	258,592	27,681	303	73,097	8,381	0	20,555	2,874	2	17,794	2,087	0	8,374	1,107	1	0	8,374	1,107	1
Jan-24	256,798	27,404	302	72,068	8,364	0	20,668	2,854	2	17,716	2,092	0	8,378	1,106	2	0	8,378	1,106	2
Feb-24	258,643	27,459	302	72,196	8,390	0	20,708	2,883	2	17,736	2,093	0	8,382	1,109	3	0	8,382	1,109	3
Mar-24	256,981	27,723	305	72,164	8,403	0	20,655	2,871	2	17,507	2,093	0	8,378	1,111	2	0	8,378	1,111	2
Apr-24	257,178	27,471	300	72,168	8,427	0	20,721	2,884	2	17,707	2,090	0	8,337	1,112	2	0	8,337	1,112	2
May-24	256,943	27,440	299	72,236	8,438	0	20,640	2,868	2	17,675	2,081	0	8,340	1,114	2	0	8,340	1,114	2
Jun-24	257,305	27,467	300	72,073	8,453	0	20,555	2,864	2	17,562	2,082	0	8,306	1,108	2	0	8,306	1,108	2
Jul-24	258,603	27,449	302	74,449	8,465	0	20,478	2,865	2	17,518	2,080	0	8,328	1,108	3	0	8,328	1,108	3
Aug-24	258,618	27,710	303	72,297	8,476	0	20,484	2,871	2	17,470	2,088	0	8,284	1,109	3	0	8,284	1,109	3
Sep-24	259,385	27,723	305	72,697	8,489	0	20,503	2,878	2	17,719	2,092	0	8,292	1,110	7	0	8,292	1,110	7
Oct-24	260,323	27,800	304	73,285	8,499	0	20,738	2,887	2	17,685	2,104	0	8,387	1,111	7	0	8,387	1,111	7
Nov-24	261,533	27,889	304	73,828	8,506	0	20,989	2,896	2	17,869	2,110	0	8,420	1,112	6	0	8,420	1,112	6
Dec-24	262,172	27,739	304	74,366	8,519	0	21,211	2,914	2	18,037	2,116	0	8,467	1,114	1	0	8,467	1,114	1
Jan-25	262,653	27,653	304	73,326	8,490	0	21,209	2,890	2	17,963	2,119	0	8,473	1,113	2	0	8,473	1,113	2
Feb-25	260,311	27,710	303	73,458	8,516	0	21,251	2,919	2	17,984	2,121	0	8,477	1,116	3	0	8,477	1,116	3

**Appendix 2.2 - Customer Forecast - Number by Region
Low Growth Case (Utilized in Cases #4, #5 & #6)**

	WA/ID	Residential	Commercial	Firm Ind.																		
Mar-25	260,451	27,694	301	73,425	8,530	0	21,197	2,907	2	17,966	2,119	0	8,473	1,118	2	8,432	1,119	0	8,434	1,121	2	
Apr-25	260,653	27,722	301	73,429	8,554	0	21,265	2,900	2	17,954	2,117	0	8,400	1,115	2	8,422	1,115	0	8,378	1,116	3	
May-25	260,413	27,691	300	73,499	8,566	0	21,181	2,904	2	17,921	2,108	0	8,400	1,115	2	8,422	1,115	0	8,378	1,116	3	
Jun-25	260,783	27,718	302	73,332	8,580	0	21,092	2,900	2	17,806	2,109	0	8,400	1,115	2	8,422	1,115	0	8,378	1,116	3	
Jul-25	261,612	27,856	304	75,770	8,593	0	21,012	2,901	2	17,761	2,107	0	8,400	1,115	2	8,422	1,115	0	8,378	1,116	3	
Aug-25	261,123	27,964	304	73,562	8,604	0	21,019	2,907	2	17,712	2,115	0	8,378	1,116	3	8,385	1,117	0	8,385	1,117	7	
Sep-25	262,907	27,978	306	73,972	8,618	0	21,038	2,915	2	17,750	2,121	0	8,378	1,116	3	8,385	1,117	0	8,385	1,117	7	
Oct-25	263,863	28,056	305	74,575	8,628	0	21,282	2,924	2	17,932	2,131	0	8,482	1,118	7	8,516	1,119	0	8,516	1,119	6	
Nov-25	265,100	28,147	305	75,133	8,635	0	21,543	2,932	2	18,120	2,137	0	8,564	1,121	1	8,564	1,121	0	8,564	1,121	1	
Dec-25	265,752	28,197	306	75,687	8,648	0	21,773	2,951	2	18,292	2,144	0	8,473	1,113	2	8,473	1,113	0	8,473	1,113	2	
Jan-26	266,265	27,653	304	73,326	8,490	0	21,209	2,890	2	17,963	2,119	0	8,477	1,116	3	8,477	1,116	0	8,477	1,116	3	
Feb-26	266,311	27,710	303	73,458	8,516	0	21,251	2,919	2	17,984	2,121	0	8,473	1,118	2	8,473	1,118	0	8,473	1,118	2	
Mar-26	266,451	27,694	301	73,425	8,530	0	21,197	2,907	2	17,966	2,119	0	8,473	1,118	2	8,473	1,118	0	8,473	1,118	2	
Apr-26	266,653	27,722	301	73,429	8,554	0	21,265	2,900	2	17,954	2,117	0	8,432	1,119	2	8,432	1,119	0	8,432	1,119	2	
May-26	266,413	27,691	300	73,499	8,566	0	21,181	2,904	2	17,921	2,108	0	8,434	1,121	2	8,434	1,121	0	8,434	1,121	2	
Jun-26	260,783	27,718	302	73,332	8,580	0	21,092	2,900	2	17,806	2,109	0	8,400	1,115	2	8,422	1,115	0	8,422	1,115	3	
Jul-26	261,612	27,856	304	75,770	8,593	0	21,012	2,901	2	17,761	2,107	0	8,400	1,115	2	8,422	1,115	0	8,378	1,116	3	
Aug-26	262,123	27,964	304	73,562	8,604	0	21,019	2,907	2	17,712	2,115	0	8,378	1,116	3	8,385	1,117	0	8,385	1,117	7	
Sep-26	262,907	27,978	306	73,972	8,618	0	21,038	2,915	2	17,750	2,121	0	8,378	1,116	3	8,385	1,117	0	8,385	1,117	7	
Oct-26	263,863	28,056	305	74,575	8,628	0	21,282	2,924	2	17,932	2,131	0	8,482	1,118	7	8,516	1,119	0	8,516	1,119	6	

Appendix 2.2 - Customer Forecast - Number by Region
High Growth Case (Utilized in Cases #7, #8 and #9)

WA / ID	Residential Commercial	Firm Ind.	Residential	Commercial	Medford	Residential	Firm Ind.	Roseburg	Commercial	Firm Ind.	Klamath Falls	Commercial	Firm Ind.	Residential	Commercial	La Grande	Commercial	Firm Ind.
Nov-06	193,950	22,174	274	53,028	6,478	0	13,587	2,233	2	14,124	1,702	0	6,890	971	0	6,985	975	6
Dec-06	195,024	22,267	275	53,879	6,501	0	13,890	2,266	2	14,439	1,716	0	6,985	975	0	6,985	975	1
Jan-07	196,343	22,478	280	54,156	6,603	0	14,048	2,271	2	14,588	1,735	0	7,067	980	0	7,067	980	2
Feb-07	196,419	22,583	278	54,359	6,648	0	14,103	2,322	2	14,627	1,738	0	7,076	986	0	7,076	986	3
Mar-07	196,800	22,255	274	54,308	6,672	0	14,106	2,301	2	14,594	1,735	0	7,067	990	0	7,067	990	2
Apr-07	197,132	22,604	274	54,314	6,714	0	14,121	2,289	2	14,571	1,731	0	6,986	993	0	6,986	993	2
May-07	196,887	22,947	271	54,422	6,733	0	13,935	2,295	2	14,511	1,714	0	6,991	996	0	6,991	996	2
Jun-07	197,196	22,598	275	54,165	6,759	0	13,893	2,289	2	14,300	1,716	0	6,923	984	0	6,923	984	2
Jul-07	199,013	22,891	278	57,906	6,781	0	13,788	2,290	2	14,219	1,713	0	6,967	984	0	6,967	984	3
Aug-07	200,004	23,090	280	54,518	6,799	0	13,797	2,301	2	14,129	1,728	0	6,880	986	0	6,880	986	3
Sep-07	201,596	23,116	284	55,148	6,823	0	13,823	2,314	2	14,198	1,738	0	6,895	989	0	6,895	989	7
Oct-07	203,322	23,260	281	56,073	6,841	0	14,144	2,331	2	14,531	1,759	0	7,085	990	0	7,085	990	7
Nov-07	205,359	23,438	281	56,928	6,853	0	14,487	2,346	2	14,874	1,770	0	7,153	993	0	7,153	993	6
Dec-07	206,433	23,521	283	57,779	6,876	0	14,865	2,379	2	15,189	1,783	0	7,247	998	0	7,247	998	1
Jan-08	208,637	23,757	286	57,955	6,970	0	15,117	2,397	2	15,335	1,807	0	7,366	1,008	0	7,366	1,008	2
Feb-08	208,719	23,871	285	58,179	7,018	0	15,178	2,452	2	15,376	1,811	0	7,376	1,015	0	7,376	1,015	3
Mar-08	208,969	23,838	280	58,122	7,044	0	15,099	2,429	2	15,341	1,807	0	7,366	1,019	0	7,366	1,019	2
Apr-08	209,328	23,893	280	58,129	7,090	0	15,198	2,416	2	15,317	1,803	0	7,281	1,022	0	7,281	1,022	2
May-08	208,901	23,832	277	58,248	7,111	0	15,076	2,423	2	15,252	1,785	0	7,285	1,026	0	7,285	1,026	2
Jun-08	209,560	23,887	282	57,965	7,138	0	14,947	2,416	2	15,026	1,787	0	7,214	1,013	0	7,214	1,013	2
Jul-08	211,038	24,162	286	62,091	7,163	0	14,931	2,418	2	14,939	1,784	0	7,260	1,013	0	7,260	1,013	3
Aug-08	211,948	24,377	288	58,354	7,182	0	14,841	2,429	2	14,842	1,800	0	7,168	1,015	0	7,168	1,015	3
Sep-08	213,345	24,405	293	59,049	7,208	0	14,869	2,443	2	14,916	1,811	0	7,184	1,018	0	7,184	1,018	7
Oct-08	215,050	24,560	289	60,070	7,227	0	15,222	2,461	2	15,273	1,833	0	7,385	1,019	0	7,385	1,019	7
Nov-08	217,253	24,741	289	61,013	7,240	0	15,601	2,477	2	15,642	1,844	0	7,456	1,022	0	7,456	1,022	6
Dec-08	218,415	24,841	291	61,951	7,265	0	15,934	2,513	2	15,980	1,858	0	7,556	1,027	0	7,556	1,027	1
Jan-09	221,286	25,035	292	61,833	7,306	0	16,294	2,504	2	16,086	1,877	0	7,669	1,035	0	7,669	1,035	2
Feb-09	221,373	25,152	291	62,067	7,356	0	16,358	2,560	2	16,129	1,881	0	7,679	1,041	0	7,679	1,041	3
Mar-09	221,633	25,119	286	62,008	7,383	0	16,275	2,537	2	16,092	1,877	0	7,669	1,046	0	7,669	1,046	2
Apr-09	222,007	25,176	286	62,015	7,430	0	16,379	2,524	2	16,068	1,872	0	7,581	1,049	0	7,581	1,049	2
May-09	221,562	25,112	283	62,140	7,452	0	16,250	2,530	2	16,001	1,855	0	7,586	1,052	0	7,586	1,052	2
Jun-09	222,248	25,169	288	61,843	7,480	0	16,114	2,524	2	15,766	1,856	0	7,513	1,039	0	7,513	1,039	2
Jul-09	223,789	25,454	292	66,163	7,505	0	15,992	2,525	2	15,676	1,853	0	7,560	1,039	0	7,560	1,039	3
Aug-09	224,737	25,677	294	62,250	7,526	0	16,003	2,537	2	15,577	1,869	0	7,465	1,041	0	7,465	1,041	3
Sep-09	226,193	25,706	299	62,978	7,552	0	16,033	2,552	2	15,653	1,881	0	7,482	1,044	0	7,482	1,044	7
Oct-09	227,970	25,867	295	64,047	7,572	0	16,405	2,570	2	16,023	1,903	0	7,689	1,046	0	7,689	1,046	7
Nov-09	230,266	26,055	295	65,034	7,586	0	16,804	2,587	2	16,404	1,915	0	7,762	1,049	0	7,762	1,049	6
Dec-09	231,476	26,159	297	66,016	7,611	0	17,156	2,623	2	16,753	1,929	0	7,864	1,054	0	7,864	1,054	1
Jan-10	234,677	26,310	301	65,534	7,612	0	17,440	2,612	2	16,795	1,948	0	7,958	1,061	0	7,958	1,061	2
Feb-10	234,767	26,432	300	65,778	7,664	0	17,508	2,671	2	16,840	1,952	0	7,968	1,068	0	7,968	1,068	3
Mar-10	235,039	26,745	295	66,176	7,691	0	17,420	2,647	2	16,802	1,948	0	7,958	1,072	0	7,958	1,072	2
Apr-10	235,428	26,456	295	65,723	7,740	0	17,530	2,633	2	16,776	1,943	0	7,868	1,076	0	7,868	1,076	6
May-10	234,964	26,390	292	65,853	7,762	0	17,394	2,640	2	16,708	1,925	0	7,873	1,079	0	7,873	1,079	2
Jun-10	235,680	26,449	296	65,545	7,791	0	17,252	2,633	2	16,466	1,927	0	7,798	1,066	0	7,798	1,066	2
Jul-10	237,286	26,745	301	70,049	7,817	0	17,124	2,635	2	16,373	1,923	0	7,846	1,066	0	7,846	1,066	3
Aug-10	238,275	26,976	303	65,969	7,838	0	17,135	2,647	2	16,270	1,940	0	7,750	1,068	0	7,750	1,068	3
Sep-10	239,793	27,006	308	66,728	7,865	0	17,166	2,662	2	16,349	1,952	0	7,766	1,071	0	7,766	1,071	7
Oct-10	241,646	27,173	305	67,842	7,886	0	17,557	2,681	2	16,730	1,975	0	7,978	1,072	0	7,978	1,072	6
Nov-10	244,040	27,367	305	68,872	7,900	0	17,976	2,698	2	17,123	1,987	0	8,054	1,076	0	8,054	1,076	6
Dec-10	245,303	27,475	306	69,896	7,926	0	18,346	2,736	2	17,483	2,002	0	8,159	1,080	0	8,159	1,080	1
Jan-11	248,811	27,540	309	69,257	7,909	0	18,618	2,709	2	17,430	2,004	0	8,248	1,089	0	8,248	1,089	2
Feb-11	248,905	27,666	307	69,511	7,962	0	18,689	2,769	2	17,476	2,007	0	8,258	1,096	0	8,258	1,096	3
Mar-11	249,189	27,630	302	69,447	7,991	0	18,597	2,744	2	17,437	2,004	0	8,248	1,100	0	8,248	1,100	2
Apr-11	249,595	27,691	302	69,455	8,040	0	18,712	2,730	2	17,411	1,998	0	8,156	1,104	0	8,156	1,104	2
May-11	249,111	27,623	299	69,590	8,063	0	18,570	2,737	2	17,340	1,980	0	8,161	1,107	0	8,161	1,107	2

Appendix 2.2 - Customer Forecast - Number by Region
High Growth Case (Utilized in Cases #7, #8 and #9)

	WA-ID	Residential Commercial	Firm Ind.	Medford Residential Commercial	Roseburg Residential Commercial	Klamath Falls Residential Commercial	La Grande Residential Commercial
Jun-11	249,858	27,684	304	69,269	8,093	0	17,092
Jul-11	251,534	27,989	309	73,960	8,120	0	16,997
Aug-11	252,566	28,228	310	69,711	8,141	0	16,891
Sep-11	254,149	28,259	315	70,501	8,170	0	16,760
Oct-11	256,082	28,131	312	71,661	8,191	0	16,633
Nov-11	258,580	28,633	312	72,733	8,205	0	16,507
Dec-11	259,897	28,744	314	73,800	8,232	0	16,381
Jan-12	262,944	28,772	315	73,074	8,183	0	16,255
Feb-12	263,042	28,201	313	73,339	8,238	0	16,129
Mar-12	263,337	28,864	308	73,272	8,267	0	16,003
Apr-12	263,760	28,927	308	73,280	8,317	0	15,877
May-12	263,257	28,855	305	73,421	8,341	0	15,751
Jun-12	264,034	28,920	310	73,086	8,372	0	15,625
Jul-12	265,780	29,235	315	77,988	8,399	0	15,499
Aug-12	266,854	29,482	316	73,546	8,421	0	15,373
Sep-12	268,504	29,513	321	74,368	8,450	0	15,247
Oct-12	270,517	29,691	318	75,576	8,472	0	15,121
Nov-12	273,119	29,899	318	76,692	8,486	0	15,005
Dec-12	274,490	30,014	320	77,802	8,513	0	14,879
Jan-13	276,915	30,003	319	76,870	8,478	0	14,753
Feb-13	277,017	30,137	318	77,145	8,534	0	14,627
Mar-13	277,324	30,098	313	77,076	8,564	0	14,501
Apr-13	277,764	30,163	313	77,084	8,616	0	14,375
May-13	277,240	30,091	309	77,230	8,640	0	14,249
Jun-13	278,048	30,156	314	76,883	8,672	0	14,123
Jul-13	279,862	30,481	319	81,954	8,700	0	14,007
Aug-13	280,979	30,735	321	77,360	8,722	0	13,881
Sep-13	282,694	30,768	326	78,214	8,752	0	13,755
Oct-13	284,786	30,952	323	79,469	8,774	0	13,629
Nov-13	287,190	31,166	323	80,628	8,789	0	13,503
Dec-13	288,916	31,284	324	81,781	8,817	0	13,377
Jan-14	290,440	31,116	327	80,546	8,823	0	13,251
Feb-14	290,545	31,253	325	80,830	8,881	0	13,125
Mar-14	290,863	31,214	320	80,759	8,911	0	13,000
Apr-14	291,319	31,281	320	80,767	8,965	0	12,874
May-14	290,776	31,206	317	80,919	8,990	0	12,748
Jun-14	291,614	31,273	322	80,559	9,023	0	12,622
Jul-14	293,495	31,607	327	85,814	9,051	0	12,496
Aug-14	294,653	31,868	329	81,054	9,074	0	12,370
Sep-14	296,430	31,902	334	81,939	9,105	0	12,244
Oct-14	298,599	32,090	330	83,239	9,128	0	12,118
Nov-14	301,403	32,311	330	84,440	9,143	0	12,002
Dec-14	302,881	32,432	332	85,635	9,172	0	11,876
Jan-15	304,437	32,390	328	84,372	9,414	0	11,750
Feb-15	303,223	32,228	333	84,359	9,208	0	11,624
Mar-15	303,332	32,270	331	84,654	9,268	0	11,498
Apr-15	303,660	32,329	326	84,580	9,300	0	11,372
May-15	304,132	32,398	326	84,588	9,355	0	11,246
Jun-15	303,571	32,321	322	84,745	9,381	0	11,120
Jul-15	304,437	32,432	328	84,372	9,414	0	11,004
Aug-15	306,380	32,733	333	89,818	9,444	0	10,878
Sep-15	307,577	33,001	335	84,885	9,468	0	10,752
Oct-15	309,414	33,036	340	85,802	9,500	0	10,626
Nov-15	311,656	33,229	336	87,150	9,523	0	10,499
Dec-15	314,553	33,455	336	88,394	9,539	0	10,373
	316,080	33,580	338	89,633	9,569	0	10,247

**Appendix 2.2 - Customer Forecast - Number by Region
High Growth Case (Utilized in Cases #7, #8 and #9)**

	WA / ID	Residential	Commercial	Firm Ind.	Medford	Roseburg	Klamath Falls	La Grande
	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial
Jan-16	315,708	33,341	340	88,232	9,575	24,977	3,311	2
Feb-16	315,820	33,386	339	88,558	9,636	25,066	3,380	2
Mar-16	316,159	33,445	333	88,481	9,669	24,950	3,352	2
Apr-16	316,646	33,515	333	88,490	9,726	25,095	3,335	2
May-16	316,067	33,436	330	88,653	9,753	24,917	3,343	2
Jun-16	316,960	33,507	335	88,266	9,787	24,729	3,335	2
Jul-16	318,965	33,559	340	93,907	9,818	24,560	3,337	2
Aug-16	320,200	34,134	342	88,798	9,842	24,575	3,352	2
Sep-16	322,094	34,169	347	89,747	9,875	24,616	3,370	2
Oct-16	324,407	34,368	344	91,143	9,899	25,131	3,392	2
Nov-16	327,396	34,600	344	92,432	9,916	25,683	3,413	2
Dec-16	328,972	34,728	346	93,715	9,946	26,169	3,457	2
Jan-17	327,148	34,326	343	92,022	9,930	26,351	3,434	2
Feb-17	327,263	34,475	342	92,338	9,993	26,444	3,505	2
Mar-17	327,612	34,432	336	92,258	10,026	26,324	3,476	2
Apr-17	328,112	34,504	336	92,268	10,085	26,475	3,459	2
May-17	316,067	33,436	330	92,436	10,112	26,288	3,467	2
Jun-17	328,435	34,496	338	92,036	10,148	26,092	3,459	2
Jul-17	330,496	34,856	343	97,885	10,179	25,916	3,461	2
Aug-17	331,766	35,137	345	92,585	10,205	25,931	3,476	2
Sep-17	333,714	35,173	350	93,567	10,238	25,974	3,495	2
Oct-17	336,092	35,377	347	95,009	10,263	26,512	3,518	2
Nov-17	339,164	35,614	347	96,342	10,280	27,088	3,539	2
Dec-17	340,784	35,745	349	97,667	10,311	27,596	3,555	2
Jan-18	338,586	35,306	349	95,807	10,306	27,737	3,557	2
Feb-18	338,705	35,457	348	96,133	10,371	27,834	3,631	2
Mar-18	339,063	35,414	342	96,051	10,406	27,708	3,600	2
Apr-18	339,576	35,488	342	96,060	10,466	27,865	3,643	2
May-18	338,965	35,405	339	96,234	10,494	27,671	3,592	2
Jun-18	339,709	35,479	344	95,821	10,531	27,467	3,553	2
Jul-18	342,026	35,847	349	101,840	10,563	27,283	3,585	2
Aug-18	343,330	36,134	351	96,388	10,589	27,299	3,600	2
Sep-18	345,331	36,440	354	97,402	10,623	27,344	3,620	2
Oct-18	347,774	36,379	353	98,891	10,649	27,908	3,643	2
Nov-18	350,931	36,621	353	100,266	10,667	28,905	3,665	2
Dec-18	352,595	36,755	355	101,635	10,699	29,034	3,712	2
Jan-19	349,878	36,285	355	99,630	10,703	29,155	3,682	2
Feb-19	349,999	36,440	354	99,966	10,770	29,256	3,757	2
Mar-19	350,367	36,396	348	99,882	10,805	29,125	3,726	2
Apr-19	350,894	36,471	348	99,892	10,868	29,288	3,709	2
May-19	350,267	36,387	345	100,071	10,896	29,086	3,717	2
Jun-19	351,235	36,462	350	99,645	10,934	28,873	3,709	2
Jul-19	353,408	36,838	355	105,855	10,967	28,682	3,711	2
Aug-19	354,746	37,132	357	100,230	10,994	28,699	3,726	2
Sep-19	356,800	37,169	363	101,276	11,030	28,745	3,746	2
Oct-19	359,307	37,381	359	102,812	11,056	29,329	3,770	2
Nov-19	362,546	37,629	359	104,231	11,074	29,954	3,792	2
Dec-19	364,254	37,766	361	105,643	11,107	30,506	3,841	2
Jan-20	361,168	37,108	358	103,340	11,123	30,569	3,815	2
Feb-20	361,293	37,265	357	103,687	11,191	30,674	3,892	2
Mar-20	361,669	37,220	351	103,599	11,228	30,538	3,861	2
Apr-20	362,210	37,296	351	103,610	11,292	30,708	3,843	2
May-20	361,567	37,211	347	103,794	11,322	30,498	3,852	2
Jun-20	362,560	37,287	353	103,356	11,361	30,277	3,843	2
Jul-20	364,788	37,670	358	109,751	11,395	30,078	3,845	2

**Appendix 2.2 - Customer Forecast - Number by Region
High Growth Case (Utilized in Cases #7, #8 and #9)**

WA-ID	Residential Commercial	Firm Ind.	Residential Commercial	Firm Ind.	Medford	Residential Commercial	Firm Ind.	Roseburg	Residential Commercial	Klamath Falls	Residential Commercial	Firm Ind.	La Grande Commercial	Residential	Firm Ind.	
366,161	37,969	360	103,938	11,423	0	30,095	3,861	2	22,829	2,654	0	10,464	1,334	3		
368,267	38,007	366	105,035	11,459	0	30,143	3,881	2	22,930	2,668	0	10,485	1,338	7		
370,838	38,223	362	106,617	11,487	0	30,751	3,906	2	23,420	2,698	0	10,749	1,340	7		
374,160	38,475	362	108,079	11,509	0	31,401	3,929	2	23,925	2,712	0	10,843	1,344	6		
375,911	38,614	364	109,533	11,539	0	31,974	3,979	2	24,388	2,731	0	10,974	1,349	1		
372,311	37,933	363	107,004	11,517	0	31,978	3,919	2	24,166	2,735	0	10,989	1,351	2		
Jan-21																
Feb-21	372,439	38,993	361	107,360	11,587	0	32,087	3,998	2	24,225	2,740	0	11,001	1,358	3	
Mar-21	372,825	38,047	356	107,270	11,625	0	31,945	3,966	2	24,175	2,735	0	10,989	1,364	2	
Apr-21	373,379	38,125	356	107,281	11,691	0	32,122	3,947	2	24,142	2,729	0	10,874	1,368	2	
May-21	372,719	38,038	352	107,471	11,721	0	31,904	3,956	2	24,052	2,705	0	10,881	1,372	2	
Jun-21	373,737	38,116	357	107,020	11,761	0	31,674	3,947	2	23,734	2,708	0	10,785	1,356	2	
Jul-21	376,920	38,505	363	113,598	11,797	0	31,468	3,950	2	23,612	2,703	0	10,847	1,356	3	
Aug-21	377,426	38,809	365	107,640	11,825	0	31,486	3,966	2	23,477	2,725	0	10,724	1,358	3	
Sep-21	379,584	38,848	370	108,747	11,862	0	31,536	3,987	2	23,581	2,740	0	10,745	1,362	7	
Oct-21	382,219	39,068	367	110,375	11,891	0	32,166	4,012	2	24,081	2,770	0	11,014	1,364	2	
Nov-21	385,622	39,324	367	111,878	11,909	0	32,841	4,035	2	24,597	2,785	0	11,109	1,368	6	
Dec-21	387,417	39,466	368	113,374	11,945	0	33,436	4,086	2	25,070	2,804	0	11,243	1,374	1	
Jan-22	382,710	38,757	367	110,729	11,924	0	33,429	4,041	2	24,844	2,819	0	11,257	1,376	2	
Feb-22	388,841	38,920	366	111,095	11,996	0	33,542	4,122	2	24,904	2,823	0	11,270	1,383	3	
Mar-22	383,235	38,873	360	111,003	12,035	0	33,395	4,089	2	24,853	2,819	0	11,257	1,389	2	
Apr-22	383,802	38,952	360	111,014	12,103	0	33,579	4,070	2	24,818	2,812	0	11,140	1,393	2	
May-22	383,128	38,864	356	111,209	12,134	0	34,353	4,079	2	24,726	2,788	0	11,146	1,397	2	
Jun-22	384,168	38,943	362	110,745	12,175	0	33,114	4,070	2	24,402	2,790	0	11,049	1,382	2	
Jul-22	386,503	39,338	367	117,510	12,211	0	32,900	4,072	2	24,277	2,786	0	11,112	1,382	3	
Aug-22	387,940	39,648	369	111,383	12,240	0	32,918	4,089	2	24,139	2,808	0	10,987	1,383	3	
Sep-22	390,147	39,687	375	112,522	12,279	0	32,970	4,110	2	24,245	2,823	0	11,008	1,387	7	
Oct-22	392,840	39,911	371	114,195	12,308	0	33,625	4,136	2	24,756	2,854	0	11,282	1,389	7	
Nov-22	396,320	40,171	371	115,742	12,327	0	34,325	4,160	2	25,284	2,869	0	11,380	1,393	6	
Dec-22	398,155	40,315	373	117,279	12,364	0	34,943	4,212	2	25,767	2,889	0	11,516	1,399	1	
Jan-23	393,111	39,505	372	114,312	12,336	0	34,932	4,162	2	25,540	2,907	0	11,529	1,400	2	
Feb-23	393,244	39,670	370	114,688	12,410	0	35,049	4,245	2	25,601	2,911	0	11,542	1,408	3	
Mar-23	393,648	39,623	364	114,593	12,450	0	34,897	4,211	2	25,549	2,907	0	11,529	1,414	2	
Apr-23	394,226	39,703	364	114,604	12,520	0	35,087	4,191	2	25,514	2,900	0	11,410	1,418	2	
May-23	393,538	39,614	361	114,284	12,552	0	34,853	4,212	2	25,420	2,875	0	11,417	1,422	2	
Jun-23	394,601	39,674	366	114,328	12,594	0	34,605	4,191	2	25,088	2,877	0	11,318	1,406	2	
Jul-23	396,987	40,095	372	121,272	12,631	0	34,383	4,194	2	24,961	2,873	0	11,381	1,406	3	
Aug-23	398,456	40,410	374	114,983	12,661	0	34,402	4,211	2	24,819	2,895	0	11,254	1,408	3	
Sep-23	400,710	40,450	379	116,152	12,701	0	34,456	4,233	2	24,928	2,911	0	11,276	1,412	7	
Oct-23	403,463	40,676	376	117,870	12,731	0	35,135	4,259	2	25,450	2,942	0	11,555	1,414	7	
Nov-23	407,019	40,941	376	119,457	12,751	0	35,662	4,284	2	25,989	2,958	0	11,654	1,418	6	
Dec-23	408,894	41,087	378	121,036	12,788	0	36,503	4,337	2	26,484	2,978	0	11,793	1,424	1	
Jan-24	403,511	40,255	375	117,947	12,737	0	36,479	4,277	2	26,249	2,992	0	11,803	1,423	2	
Feb-24	403,648	40,422	373	118,333	12,813	0	36,600	4,362	2	26,311	2,996	0	11,817	1,431	3	
Mar-24	408,971	41,173	377	118,635	13,071	0	36,442	4,327	2	25,513	2,980	0	11,523	1,431	3	
Apr-24	404,060	40,375	382	119,835	13,111	0	35,985	4,349	2	26,258	2,996	0	11,803	1,435	7	
Oct-24	404,651	40,456	367	118,247	12,925	0	36,640	4,307	2	26,222	2,985	0	11,682	1,441	2	
May-24	403,947	40,365	364	118,453	12,959	0	36,396	4,317	2	26,126	2,960	0	11,689	1,445	2	
Jun-24	405,034	40,446	369	117,964	13,002	0	36,140	4,307	2	25,787	2,962	0	11,588	1,429	2	
Jul-24	407,470	40,854	375	125,090	13,040	0	35,909	4,309	2	25,657	2,957	0	11,653	1,429	3	
Aug-24	408,971	41,173	377	118,635	13,071	0	35,929	4,327	2	25,513	2,980	0	11,523	1,431	3	
Sep-24	411,274	41,214	382	119,835	13,111	0	35,985	4,349	2	25,623	2,996	0	11,546	1,435	7	
Oct-24	414,086	41,444	379	121,598	13,142	0	36,689	4,376	2	26,157	3,029	0	11,830	1,437	7	
Nov-24	417,718	41,712	379	123,227	13,162	0	37,443	4,401	2	26,708	3,045	0	11,931	1,441	6	
Dec-24	419,633	41,861	381	124,847	13,201	0	38,108	4,456	2	27,213	3,065	0	12,072	1,447	1	
Jan-25	413,912	41,004	379	121,722	13,114	0	38,104	4,385	2	26,991	3,073	0	12,089	1,444	2	
Feb-25	414,051	41,175	378	122,118	13,192	0	38,230	4,471	2	27,055	3,078	0	12,102	1,452	3	

**Appendix 2.2 - Customer Forecast - Number by Region
High Growth Case (Utilized in Cases #7, #8 and #9)**

	WA-ID	Residential	Commercial	Firm Ind.	Medford	Residential	Roseburg	Klamath Falls	La Grande
	Residential	Commercial	Firm Ind.	Residential	Commercial	Firm Ind.	Residential	Commercial	Commercial
Mar-25	414,472	41,126	372	122,018	13,234	4,435	27,001	3,073	0
Apr-25	415,076	41,209	372	122,030	13,307	0	38,066	3,066	0
May-25	414,357	41,116	368	122,241	13,341	0	38,018	4,425	2
Jun-25	415,466	41,199	374	121,740	13,385	0	37,752	4,415	2
Jul-25	417,954	41,613	379	129,054	13,424	0	37,513	4,418	2
Aug-25	419,486	41,936	381	122,429	13,455	0	37,533	4,435	2
Sep-25	421,838	41,978	387	123,660	13,497	0	37,591	4,458	2
Oct-25	424,708	42,211	383	125,470	13,528	0	38,322	4,486	2
Nov-25	428,417	42,484	383	127,142	13,549	0	39,105	4,511	2
Dec-25	430,373	42,634	385	128,805	13,588	0	39,795	4,567	2
Jan-26	413,912	41,004	379	121,722	13,114	0	38,104	4,385	2
Feb-26	414,051	41,175	378	122,118	13,192	0	38,230	4,471	2
Mar-26	414,472	41,126	372	122,018	13,234	0	38,066	4,435	2
Apr-26	415,076	41,209	372	122,030	13,307	0	38,271	4,415	2
May-26	414,357	41,116	368	122,241	13,341	0	38,018	4,425	2
Jun-26	415,466	41,199	374	121,740	13,385	0	37,752	4,415	2
Jul-26	417,954	41,613	379	129,054	13,424	0	37,513	4,418	2
Aug-26	419,486	41,936	381	122,429	13,455	0	37,533	4,435	2
Sep-26	421,838	41,978	387	123,660	13,497	0	37,591	4,458	2
Oct-26	424,708	42,211	383	125,470	13,528	0	38,322	4,486	2

Demand Coefficients

Appendix 2.3

Appendix 2.3 - Avista Utilities 2006 Firm Natural Gas Forecast Sendout Model Coeffecients

Regression--Residential WA & ID

Coefficients					
Model	Unstandardized Coefficients	t	Sig.	B	Std. Error
1 (Constant)	0.0643	0.0051	12.6035	2.31918E-28	
NHDDD	0.0077	0.0003	23.3502	4.96042E-64	
NQDDD	0.0028	0.0003	9.2488	1.20662E-17	
a	Dependent Variable: RNDT				

Regression--Residential WA & ID		Calibration	
		Correction (%)	Final
Base	0.0643	0.8338	0.0536
Shoulder	0.0077	0.9949	0.0077
Dec-Jan-Feb	0.0105	0.9949	0.0104

Regression--Commercial WA & ID

Coefficients					
Model	Unstandardized Coefficients	t	Sig.	B	Std. Error
1 (Constant)	0.4506	0.0252	17.8646	3.75778E-46	
NHDDD	0.0348	0.0016	21.3428	1.2145E-57	
NQDDD	0.0161	0.0015	10.9375	6.64481E-23	
a	Dependent Variable: CNDT				

Regression--Commercial WA & ID		Calibration	
		Correction (%)	Final
Base	0.4506	0.8338	0.3757
Shoulder	0.0348	0.9949	0.0346
Dec-Jan-Feb	0.0509	0.9949	0.0506

Regression--Industrial Firm WA & ID

Coefficients					
Model	Unstandardized Coefficients	t	Sig.	B	Std. Error
1 (Constant)	4.9951	0.0694	71.9937	6.7538E-166	
NHDDD	0.1382	0.0045	30.8456	5.40506E-86	
NQDDD	0.0426	0.0041	10.5052	1.58638E-21	
a	Dependent Variable: INDT				

Regression--Industrial Firm WA & ID		Calibration	
		Correction (%)	Final
Base	4.9951	0.8338	4.1648
Shoulder	0.1382	0.9949	0.1375
Dec-Jan-Feb	0.1807	0.9949	0.1798

Regression--Residential Medford

Coefficients					
Model	Unstandardized Coefficients	t	Sig.	B	Std. Error
1 (Constant)	0.0624	0.0040	15.5902	1.8892E-38	
MHDDD	0.0072	0.0004	18.9490	8.79367E-50	
MQDDD	0.0044	0.0004	12.4908	5.49618E-28	
a	Dependent Variable: RMDT				

Regression--Residential Medford		Calibration	
		Correction (%)	Final
Base	0.0624	0.7317	0.0457
Shoulder	0.0072	0.9697	0.0070
Dec-Jan-Feb	0.0116	0.9697	0.0113

Regression--Commercial Medford

Coefficients					
Model	Unstandardized Coefficients	t	Sig.	B	Std. Error
1 (Constant)	0.4316	0.0158	27.2788	6.36763E-76	
MHDDD	0.0284	0.0015	18.9966	6.10584E-50	
MQDDD	0.0197	0.0014	14.0385	3.4927E-33	
a	Dependent Variable: CMDT				

Regression--Commercial Medford		Calibration	
		Correction (%)	Final
Base	0.4316	0.7317	0.3158
Shoulder	0.0284	0.9697	0.0276
Dec-Jan-Feb	0.0481	0.9697	0.0467

Regression--Residential Roseburg

Coefficients					
Model	Unstandardized Coefficients	t	Sig.	B	Std. Error
1 (Constant)	0.0525	0.0036	14.5863	4.86366E-35	
RHDDD	0.0087	0.0004	22.2809	1.18563E-60	
RQDDD	0.0029	0.0004	7.8538	1.29554E-13	
a	Dependent Variable: RRDT				

Regression--Residential Roseburg		Calibration	
		Correction (%)	Final
Base	0.0525	1.2997	0.0682
Shoulder	0.0087	0.9974	0.0087
Dec-Jan-Feb	0.0115	0.9974	0.0115

Regression--Commercial Roseburg

Coefficients					
Model	Unstandardized Coefficients	t	Sig.	B	Std. Error
1 (Constant)	0.3382	0.0140	24.0826	2.60566E-66	
RHDDD	0.0289	0.0015	19.0055	5.70236E-50	
RQDDD	0.0168	0.0014	11.8422	7.65352E-26	
a	Dependent Variable: CRDT				

Regression--Commercial Roseburg		Calibration	
		Correction (%)	Final
Base	0.3382	1.2997	0.4395
Shoulder	0.0289	0.9974	0.0288
Dec-Jan-Feb	0.0457	0.9974	0.0456

Appendix 2.3 - Avista Utilities 2006 Firm Natural Gas Forecast Sendout Model Coeffecients

Regression--Industrial Firm Roseburg

Coefficients				t	Sig.
Model	Unstandardized Coefficients	B	Std. Error		
1 (Constant)	11.2737	0.3693	30.5295	3.9604E-85	
RHDDD	0.3957	0.0400	9.8879	1.35669E-19	
RQDDD	(0.1390)	0.0373	(3.7224)	0.00024527	
a	Dependent Variable: IRDT				

Regression--Industrial Firm Roseburg

Base	11.2737	1.2997	14.6529
Shoulder	0.3957	0.9974	0.3946
Dec-Jan-Feb	0.2567	0.9974	0.2560

Regression--Residential Klamath Falls

Coefficients				t	Sig.
Model	Unstandardized Coefficients	B	Std. Error		
1 (Constant)	0.0322	0.0055	5.8760	1.37752E-08	
KHDDD	0.0065	0.0003	19.0936	2.90359E-50	
KQDDD	0.0035	0.0003	12.1496	7.43026E-27	
a	Dependent Variable: RKDT				

Regression--Residential Klamath Falls

Base	0.0322	1.5804	0.0509
Shoulder	0.0065	0.7895	0.0051
Dec-Jan-Feb	0.0100	0.7895	0.0079

Regression--Commercial Klamath Falls

Coefficients				t	Sig.
Model	Unstandardized Coefficients	B	Std. Error		
1 (Constant)	0.2455	0.0203	12.0710	1.35135E-26	
KHDDD	0.0236	0.0013	18.6908	6.38794E-49	
KQDDD	0.0150	0.0011	14.0894	2.34868E-33	
a	Dependent Variable: CKDT				

Regression--Commercial Klamath Falls

Base	0.2455	1.5804	0.3880
Shoulder	0.0236	0.7895	0.0186
Dec-Jan-Feb	0.0386	0.7895	0.0305

Regression--Residential La Grande

Coefficients				t	Sig.
Model	Unstandardized Coefficients	B	Std. Error		
1 (Constant)	0.0467	0.0062	7.4723	1.41839E-12	
LHDDD	0.0078	0.0004	18.5116	2.53713E-48	
LQDDD	0.0020	0.0004	5.5189	8.73254E-08	
a	Dependent Variable: RLDT				

Regression--Residential La Grande

Base	0.0467	0.9885	0.0462
Shoulder	0.0078	1.0117	0.0079
Dec-Jan-Feb	0.0098	1.0117	0.0099

Regression--Commercial La Grande

Coefficients				t	Sig.
Model	Unstandardized Coefficients	B	Std. Error		
1 (Constant)	0.2512	0.0278	9.0255	5.60655E-17	
LHDDD	0.0278	0.0019	14.8103	8.44083E-36	
LQDDD	0.0112	0.0016	6.9517	3.30707E-11	
a	Dependent Variable: CLDT				

Regression--Commercial La Grande

Base	0.2512	0.9885	0.2483
Shoulder	0.0278	1.0117	0.0282
Dec-Jan-Feb	0.0391	1.0117	0.0395

Regression--Industrial Firm La Grande

Coefficients				t	Sig.
Model	Unstandardized Coefficients	B	Std. Error		
1 (Constant)	18.0576	1.8580	9.7187	4.50666E-19	
LHDDD	(0.4669)	0.1254	(3.7219)	0.000245711	
LQDDD	0.0598	0.1078	0.5545	0.579751186	
a	Dependent Variable: ILDT				

Regression--Industrial Firm La Grande

Base	18.0576	0.9885	17.8507
Shoulder	-	1.0117	-
Dec-Jan-Feb	-	1.0117	-

Shoulder months = March, April, May, June, September, October, November
 Summer months = July and August with no temperature sensitive load

Detailed Demand Data

Appendix 2.4

Appendix 2.4 - A
Annual Avg. Demand (MDth/d)
(Net of DSM Savings)

Area	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016
Case #2										
Klam Falls	3.82	4.03	4.15	4.30	4.41	4.51	4.57	4.66	4.75	4.87
La Grande	2.29	2.41	2.47	2.54	2.60	2.66	2.70	2.74	2.78	2.83
Medford	10.18	10.93	11.39	11.92	12.39	12.87	13.19	13.59	14.00	14.51
Medford NWP	3.39	3.64	3.80	3.97	4.13	4.29	4.40	4.53	4.67	4.84
Roseburg	4.39	4.69	4.90	5.14	5.35	5.58	5.76	5.97	6.19	6.44
OR Sub-total	24.07	25.70	26.70	27.87	28.87	29.92	30.62	31.48	32.39	33.49
Spokane	48.72	52.14	54.24	56.90	59.29	61.77	63.54	65.47	67.29	69.41
Spokane NWP	20.88	22.34	23.24	24.38	25.40	26.47	27.22	28.05	28.83	29.73
WAID Sub-total	69.60	74.49	77.48	81.28	84.69	88.24	90.76	93.52	96.12	99.14
Scenario #2 Total	93.67	100.19	104.17	109.15	113.57	118.15	121.38	125.00	128.50	132.64

Case #6

Klam Falls	3.67	3.75	3.82	3.89	3.93	3.97	3.97	3.99	4.01	4.05
La Grande	2.21	2.25	2.29	2.33	2.36	2.38	2.38	2.39	2.39	2.41
Medford	9.69	10.02	10.27	10.55	10.75	10.95	11.03	11.17	11.32	11.52
Medford NWP	3.23	3.34	3.42	3.52	3.58	3.65	3.68	3.72	3.77	3.84
Roseburg	4.21	4.34	4.45	4.58	4.68	4.77	4.84	4.92	5.01	5.12
OR Sub-total	23.02	23.70	24.26	24.87	25.31	25.72	25.89	26.19	26.50	26.94
Spokane	46.64	48.06	49.30	50.69	51.78	52.77	53.32	54.04	54.66	55.47
Spokane NWP	19.99	20.60	21.13	21.73	22.19	22.62	22.85	23.16	23.43	23.77
WAID Sub-total	66.63	68.66	70.43	72.42	73.97	75.39	76.18	77.19	78.09	79.24
Scenario #6 Total	89.65	92.37	94.69	97.29	99.27	101.10	102.07	103.39	104.59	106.18

Case #7

Klam Falls	4.11	4.31	4.51	4.72	4.90	5.08	5.21	5.38	5.56	5.76
La Grande	2.46	2.56	2.65	2.75	2.86	2.95	3.03	3.11	3.19	3.29
Medford	11.05	11.85	12.57	13.32	14.08	14.82	15.42	16.12	16.85	17.69
Medford NWP	3.68	3.95	4.19	4.44	4.69	4.94	5.14	5.37	5.62	5.90
Roseburg	4.71	5.04	5.36	5.70	6.05	6.39	6.71	7.06	7.43	7.84
OR Sub-total	26.00	27.70	29.28	30.94	32.58	34.18	35.51	37.04	38.65	40.48
Spokane	52.78	56.30	59.64	63.42	67.32	71.15	74.44	77.87	81.15	84.71
Spokane NWP	22.62	24.13	25.56	27.18	28.85	30.49	31.90	33.37	34.78	36.31
WAID Sub-total	75.41	80.42	85.21	90.60	96.17	101.64	106.34	111.24	115.93	121.02
Scenario #7 Total	101.41	108.13	114.48	121.54	128.75	135.82	141.85	148.29	154.59	161.50

Appendix 2.4 - A
Annual Avg. Demand (MDth/d)
(Net of DSM Savings)

Area	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026
Case #2										
Klam Falls	4.95	5.05	5.17	5.31	5.40	5.51	5.64	5.79	5.89	5.95
La Grande	2.86	2.89	2.94	2.99	3.03	3.07	3.11	3.17	3.21	3.23
Medford	14.81	15.20	15.64	16.18	16.52	16.98	17.43	17.97	18.32	18.51
Medford NWP	4.94	5.07	5.21	5.39	5.51	5.66	5.81	5.99	6.11	6.17
Roseburg	6.63	6.84	7.08	7.34	7.54	7.77	8.02	8.30	8.53	8.61
OR Sub-total	34.18	35.06	36.04	37.21	37.99	38.99	40.01	41.21	42.06	42.47
Spokane	70.44	71.89	73.46	75.24	76.41	77.79	79.19	80.84	81.94	82.40
Spokane NWP	30.19	30.81	31.48	32.24	32.74	33.34	33.93	34.64	35.11	35.31
WAID Sub-total	100.62	102.70	104.94	107.48	109.16	111.13	113.13	115.48	117.05	117.71
Scenario #2 Total	134.80	137.76	140.98	144.69	147.14	150.12	153.14	156.69	159.10	160.19
Case #6										
Klam Falls	4.08	4.13	4.19	4.26	4.29	4.35	4.41	4.49	4.54	4.57
La Grande	2.42	2.44	2.46	2.49	2.50	2.52	2.54	2.57	2.58	2.59
Medford	11.63	11.84	12.05	12.32	12.46	12.68	12.90	13.18	13.33	13.44
Medford NWP	3.88	3.95	4.02	4.11	4.15	4.23	4.30	4.39	4.44	4.48
Roseburg	5.20	5.31	5.42	5.55	5.64	5.75	5.87	6.01	6.12	6.17
OR Sub-total	27.20	27.66	28.12	28.73	29.05	29.53	30.02	30.65	31.00	31.25
Spokane	55.96	56.74	57.46	58.36	58.82	59.47	60.09	60.93	61.32	61.56
Spokane NWP	23.98	24.32	24.63	25.01	25.21	25.48	25.75	26.11	26.27	26.38
WAID Sub-total	79.94	81.05	82.09	83.37	84.03	84.95	85.84	87.04	87.59	87.94
Scenario #6 Total	107.14	108.71	110.21	112.10	113.08	114.48	115.86	117.69	118.60	119.19
Case #7										
Klam Falls	5.90	6.10	6.30	6.53	6.69	6.89	7.10	7.34	7.53	7.61
La Grande	3.34	3.42	3.50	3.60	3.67	3.75	3.83	3.92	3.99	4.03
Medford	18.28	19.01	19.77	20.64	21.27	22.03	22.79	23.66	24.29	24.57
Medford NWP	6.09	6.34	6.59	6.88	7.09	7.34	7.60	7.89	8.10	8.19
Roseburg	8.18	8.56	8.94	9.37	9.71	10.10	10.51	10.95	11.33	11.46
OR Sub-total	41.80	43.43	45.11	47.01	48.43	50.12	51.82	53.77	55.24	55.85
Spokane	86.30	89.21	91.97	94.97	97.17	99.70	102.13	104.92	106.98	107.71
Spokane NWP	36.99	38.23	39.42	40.70	41.64	42.72	43.76	44.96	45.84	46.16
WAID Sub-total	123.29	127.44	131.39	135.67	138.82	142.42	145.89	149.88	152.83	153.87
Scenario #7 Total	165.09	170.87	176.49	182.68	187.25	192.54	197.71	203.65	208.06	209.72

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
 By Class (Net of DSM Savings)
Area

		2006/2007			2007/2008					
	Residential	Commercial	Firm	Industrial	Total	Residential	Commercial	Firm	Industrial	Total
Case #2										
Klam Falls	2.40	1.42	-	3.82	2.54	1.49	-	-	4.03	
La Grande	1.40	0.82	0.06	2.29	1.48	0.86	0.06	2.41	2.41	
Medford	6.35	3.83	-	10.18	6.86	4.08	-	10.93	10.93	
Medford NWP	2.12	1.28	-	3.39	2.29	1.36	-	-	3.64	
Roseburg	2.45	1.91	0.04	4.39	2.63	2.02	0.04	-	4.69	
OR Sub-total	14.72	9.26	0.09	24.07	15.80	9.81	0.09	25.70		
Spokane	29.57	17.80	1.35	48.72	31.79	18.96	1.39	52.14	52.14	
Spokane NWP	12.67	7.63	0.58	20.88	13.62	8.12	0.60	22.34	22.34	
WAID Sub-total	42.25	25.42	1.92	69.60	45.42	27.08	1.99	74.49		
Scenario #2 Total	56.97	34.68	2.02	93.67	61.21	36.89	2.09	100.19		

Case #6

		2006/2007			2007/2008					
	Residential	Commercial	Firm	Industrial	Total	Residential	Commercial	Firm	Industrial	Total
Case #6										
Klam Falls	2.30	1.38	-	3.67	2.35	1.41	-	-	3.75	
La Grande	1.35	0.80	0.06	2.21	1.38	0.82	0.06	2.25	2.25	
Medford	6.02	3.67	-	9.69	6.23	3.78	-	10.02	10.02	
Medford NWP	2.01	1.22	-	3.23	2.08	1.26	-	-	3.34	
Roseburg	2.33	1.85	0.04	4.21	2.41	1.89	0.04	4.34	4.34	
OR Sub-total	14.01	8.92	0.09	23.02	14.45	9.16	0.09	23.70		
Spokane	28.28	17.05	1.32	46.64	29.21	17.52	1.34	48.06	48.06	
Spokane NWP	12.12	7.31	0.56	19.99	12.52	7.51	0.57	20.60	20.60	
WAID Sub-total	40.40	24.35	1.88	66.63	41.73	25.03	1.91	68.66		
Scenario #6 Total	54.41	33.27	1.97	89.65	56.17	34.19	2.00	92.37		

Case #7

		2006/2007			2007/2008					
	Residential	Commercial	Firm	Industrial	Total	Residential	Commercial	Firm	Industrial	Total
Case #7										
Klam Falls	2.60	1.51	-	4.11	2.74	1.58	-	-	4.31	
La Grande	1.52	0.88	0.06	2.46	1.59	0.91	0.06	2.56	2.56	
Medford	6.94	4.10	-	11.05	7.48	4.37	-	11.85	11.85	
Medford NWP	2.31	1.37	-	3.68	2.49	1.46	-	-	3.95	
Roseburg	2.64	2.03	0.04	4.71	2.85	2.15	0.04	5.04	5.04	
OR Sub-total	16.01	9.89	0.10	26.00	17.15	10.46	0.09	27.70		
Spokane	32.16	19.21	1.41	52.78	34.46	20.39	1.45	56.30	56.30	
Spokane NWP	13.78	8.23	0.60	22.62	14.77	8.74	0.62	24.13	24.13	
WAID Sub-total	45.95	27.44	2.02	75.41	49.23	29.12	2.07	80.42		
Scenario #7 Total	61.96	37.33	2.11	101.41	66.38	39.58	2.17	108.13		

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
By Class (Net of DSM Savings)
Area

		2008/2009			2009/2010				
		Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #2									
Klam Falls	2.62	1.53	-	4.15	2.71	1.58	-	-	4.30
La Grande	1.53	0.88	0.06	2.47	1.58	0.91	0.06	2.54	2.54
Medford	7.17	4.22	-	11.39	7.54	4.38	-	-	11.92
Medford NWP	2.39	1.41	-	3.80	2.51	1.46	-	-	3.97
Roseburg	2.77	2.09	0.04	4.90	2.93	2.17	0.04	-	5.14
OR Sub-total	16.47	10.13	0.09	26.70	17.28	10.50	0.09	27.87	
Spokane	33.16	19.66	1.42	54.24	34.93	20.51	1.46	56.90	
Spokane NWP	14.21	8.42	0.61	23.24	14.97	8.79	0.62	24.38	
WAID Sub-total	47.37	28.08	2.03	77.48	49.90	29.30	2.08	81.28	
Scenario #2 Total	63.85	38.21	2.12	104.17	67.18	39.80	2.17	109.15	

Case #6

		2008/2009			2009/2010				
		Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #6									
Klam Falls	2.39	1.43	-	3.82	2.43	1.46	-	-	3.89
La Grande	1.41	0.83	0.06	2.29	1.43	0.84	0.06	2.33	2.33
Medford	6.40	3.87	-	10.27	6.59	3.96	-	-	10.55
Medford NWP	2.13	1.29	-	3.42	2.20	1.32	-	-	3.52
Roseburg	2.48	1.93	0.04	4.45	2.57	1.98	0.04	-	4.58
OR Sub-total	14.81	9.35	0.09	24.26	15.22	9.55	0.09	24.87	
Spokane	30.03	17.92	1.35	49.30	30.96	18.36	1.37	50.69	
Spokane NWP	12.87	7.68	0.58	21.13	13.27	7.87	0.59	21.73	
WAID Sub-total	42.90	25.60	1.93	70.43	44.23	26.23	1.96	72.42	
Scenario #6 Total	57.72	34.95	2.02	94.69	59.44	35.78	2.06	97.29	

Case #7

		2008/2009			2009/2010				
		Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #7									
Klam Falls	2.87	1.64	-	4.51	3.01	1.71	-	-	4.72
La Grande	1.65	0.94	0.06	2.65	1.72	0.97	0.06	2.75	2.75
Medford	7.98	4.59	-	12.57	8.51	4.81	-	-	13.32
Medford NWP	2.66	1.53	-	4.19	2.84	1.60	-	-	4.44
Roseburg	3.07	2.25	0.04	5.36	3.30	2.36	0.04	5.70	5.70
OR Sub-total	18.24	10.95	0.09	29.28	19.39	11.45	0.09	30.94	
Spokane	36.67	21.49	1.49	59.64	39.19	22.69	1.54	63.42	
Spokane NWP	15.71	9.21	0.64	25.56	16.80	9.73	0.66	27.18	
WAID Sub-total	52.38	30.70	2.13	85.21	55.99	32.42	2.20	90.60	
Scenario #7 Total	70.62	41.65	2.22	114.48	75.37	43.87	2.29	121.54	

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
By Class (Net of DSM Savings)
Area

		2010/2011			2011/2012				
		Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #2									
Klam Falls	2.79	1.62	-	4.41	2.86	1.65	-	-	4.51
La Grande	1.62	0.93	0.06	2.60	1.66	0.95	0.06	0.06	2.66
Medford	7.87	4.52	-	12.39	8.22	4.66	-	-	12.87
Medford NWP	2.62	1.51	-	4.13	2.74	1.55	-	-	4.29
Roseburg	3.08	2.23	0.04	5.35	3.24	2.30	0.04	0.04	5.58
OR Sub-total	17.98	10.80	0.09	28.87	18.71	11.11	0.09	0.09	29.92
Spokane	36.57	21.24	1.49	59.29	38.28	21.97	1.52	61.77	
Spokane NWP	15.67	9.10	0.64	25.40	16.40	9.42	0.65	26.47	
WAID Sub-total	52.23	30.34	2.12	84.69	54.68	31.39	2.17	88.24	
Scenario #2 Total	70.21	41.14	2.22	113.57	73.39	42.50	2.26	118.15	
 Case #6									
Klam Falls	2.46	1.48	-	3.93	2.48	1.49	-	-	3.97
La Grande	1.45	0.85	0.06	2.36	1.46	0.86	0.06	0.06	2.38
Medford	6.73	4.02	-	10.75	6.87	4.08	-	-	10.95
Medford NWP	2.24	1.34	-	3.58	2.29	1.36	-	-	3.65
Roseburg	2.63	2.01	0.04	4.68	2.70	2.04	0.04	0.04	4.77
OR Sub-total	15.51	9.70	0.09	25.31	15.80	9.83	0.09	0.09	25.72
Spokane	31.71	18.68	1.39	51.78	32.41	18.96	1.40	1.40	52.77
Spokane NWP	13.59	8.00	0.60	22.19	13.89	8.12	0.60	0.60	22.62
WAID Sub-total	45.30	26.68	1.98	73.97	46.30	27.08	2.00	2.00	75.39
Scenario #6 Total	60.81	36.38	2.08	99.27	62.10	36.91	2.10	2.10	101.10
 Case #7									
Klam Falls	3.14	1.77	-	4.90	3.26	1.82	-	-	5.08
La Grande	1.80	1.00	0.06	2.86	1.86	1.03	0.06	0.06	2.95
Medford	9.05	5.03	-	14.08	9.59	5.24	-	-	14.82
Medford NWP	3.02	1.68	-	4.69	3.20	1.75	-	-	4.94
Roseburg	3.55	2.46	0.04	6.05	3.79	2.56	0.04	0.04	6.39
OR Sub-total	20.54	11.94	0.09	32.58	21.69	12.39	0.10	0.10	34.18
Spokane	41.85	23.89	1.59	67.32	44.50	25.02	1.63	1.63	71.15
Spokane NWP	17.93	10.24	0.68	28.85	19.07	10.72	0.70	0.70	30.49
WAID Sub-total	59.78	34.12	2.27	96.17	63.57	35.75	2.32	2.32	101.64
Scenario #7 Total	80.32	46.06	2.36	128.75	85.26	48.14	2.42	2.42	135.82

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
 By Class (Net of DSM Savings)
Area

		2012/2013			2012/2013			2013/2014		
		Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total	
Case #2										
Klam Falls	2.90	1.67	-	4.57	2.95	1.70	-	4.66		
La Grande	1.69	0.95	0.06	2.70	1.72	0.97	0.06	2.74		
Medford	8.45	4.74	-	13.19	8.73	4.86	-	13.59		
Medford NWP	2.82	1.58	-	4.40	2.91	1.62	-	4.53		
Roseburg	3.37	2.35	0.04	5.76	3.51	2.42	0.04	5.97		
OR Sub-total	19.23	11.30	0.09	30.62	19.82	11.57	0.09	31.48		
Spokane	39.54	22.47	1.53	63.54	40.92	23.00	1.55	65.47		
Spokane NWP	16.94	9.63	0.65	27.22	17.53	9.86	0.66	28.05		
WAID Sub-total	56.48	32.10	2.18	90.76	58.44	32.86	2.21	93.52		
Scenario #2 Total	75.71	43.40	2.27	121.38	78.26	44.43	2.31	125.00		
Case #6										
Klam Falls	2.48	1.49	-	3.97	2.49	1.50	-	3.99		
La Grande	1.46	0.86	0.06	2.38	1.47	0.86	0.06	2.39		
Medford	6.93	4.10	-	11.03	7.02	4.15	-	11.17		
Medford NWP	2.31	1.37	-	3.68	2.34	1.38	-	3.72		
Roseburg	2.75	2.05	0.04	4.84	2.81	2.08	0.04	4.92		
OR Sub-total	15.92	9.87	0.09	25.89	16.12	9.98	0.09	26.19		
Spokane	32.84	19.08	1.40	53.32	33.37	19.25	1.41	54.04		
Spokane NWP	14.07	8.18	0.60	22.85	14.30	8.25	0.61	23.16		
WAID Sub-total	46.91	27.26	2.01	76.18	47.67	27.50	2.02	77.19		
Scenario #6 Total	62.83	37.13	2.10	102.07	63.80	37.48	2.11	103.39		
Case #7										
Klam Falls	3.36	1.86	-	5.21	3.47	1.91	-	5.38		
La Grande	1.92	1.05	0.06	3.03	1.98	1.08	0.06	3.11		
Medford	10.03	5.39	-	15.42	10.51	5.61	-	16.12		
Medford NWP	3.34	1.80	-	5.14	3.50	1.87	-	5.37		
Roseburg	4.01	2.65	0.04	6.71	4.26	2.76	0.04	7.06		
OR Sub-total	22.66	12.75	0.09	35.51	23.72	13.23	0.09	37.04		
Spokane	46.81	25.98	1.65	74.44	49.23	26.96	1.69	77.87		
Spokane NWP	20.06	11.13	0.71	31.90	21.10	11.55	0.72	33.37		
WAID Sub-total	66.87	37.11	2.36	106.34	70.33	38.51	2.41	111.24		
Scenario #7 Total	89.53	49.87	2.45	141.85	94.05	51.74	2.50	148.29		

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
 By Class (Net of DSM Savings)
Area

		2014/2015			2015/2016					
	Residential	Commercial	Firm	Industrial	Total	Residential	Commercial	Firm	Industrial	Total
Case #2										
Klam Falls	3.01	1.74	-	4.75	3.07	1.79	-	-	4.87	
La Grande	1.74	0.98	0.06	2.78	1.78	1.00	0.06	0.06	2.83	
Medford	9.00	5.00	-	14.00	9.34	5.17	-	-	14.51	
Medford NWP	3.00	1.67	-	4.67	3.11	1.72	-	-	4.84	
Roseburg	3.66	2.49	0.04	6.19	3.83	2.58	0.04	0.04	6.44	
OR Sub-total	20.41	11.89	0.09	32.39	21.14	12.26	0.09	0.09	33.49	
Spokane	42.20	23.52	1.57	67.29	43.66	24.15	1.60	1.60	69.41	
Spokane NWP	18.07	10.08	0.67	28.83	18.70	10.35	0.68	0.68	29.73	
WAID Sub-total	60.27	33.60	2.24	96.12	62.37	34.49	2.28	2.28	99.14	
Scenario #2 Total	80.68	45.49	2.33	128.50	83.50	46.76	2.38	2.38	132.64	
Case #6										
Klam Falls	2.49	1.52	-	4.01	2.51	1.54	-	-	4.05	
La Grande	1.47	0.87	0.06	2.39	1.48	0.87	0.06	0.06	2.41	
Medford	7.11	4.20	-	11.32	7.25	4.28	-	-	11.52	
Medford NWP	2.37	1.40	-	3.77	2.42	1.43	-	-	3.84	
Roseburg	2.86	2.11	0.04	5.01	2.93	2.15	0.04	0.04	5.12	
OR Sub-total	16.31	10.10	0.09	26.50	16.58	10.26	0.09	0.09	26.94	
Spokane	33.84	19.40	1.42	54.66	34.41	19.63	1.43	1.43	55.47	
Spokane NWP	14.50	8.31	0.61	23.43	14.75	8.41	0.61	0.61	23.77	
WAID Sub-total	48.34	27.72	2.03	78.09	49.15	28.04	2.05	2.05	79.24	
Scenario #6 Total	64.65	37.81	2.12	104.59	65.73	38.30	2.14	2.14	106.18	
Case #7										
Klam Falls	3.58	1.98	-	5.56	3.70	2.06	-	-	5.76	
La Grande	2.04	1.10	0.06	3.19	2.10	1.13	0.06	0.06	3.29	
Medford	11.00	5.85	-	16.85	11.57	6.12	-	-	17.69	
Medford NWP	3.67	1.95	-	5.62	3.86	2.04	-	-	5.90	
Roseburg	4.51	2.89	0.04	7.43	4.78	3.02	0.04	0.04	7.84	
OR Sub-total	24.79	13.77	0.09	38.65	26.01	14.37	0.10	0.10	40.48	
Spokane	51.53	27.91	1.72	81.15	53.98	28.97	1.76	1.76	84.71	
Spokane NWP	22.08	11.96	0.74	34.78	23.13	12.42	0.76	0.76	36.31	
WAID Sub-total	73.61	39.87	2.46	115.93	77.11	41.39	2.52	2.52	121.02	
Scenario #7 Total	98.40	53.64	2.55	154.59	103.12	55.76	2.62	2.62	161.50	

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
 By Class (Net of DSM Savings)
Area

		2016/2017			2017/2018					
	Residential	Commercial	Firm	Industrial	Total	Residential	Commercial	Firm	Industrial	Total
Case #2										
Klam Falls	3.13	1.83	-	4.95	3.19	1.86	-	-	-	5.05
La Grande	1.79	1.01	0.06	2.86	1.82	1.02	0.06	0.06	0.06	2.89
Medford	9.53	5.28	-	14.81	9.79	5.41	-	-	-	15.20
Medford NWP	3.18	1.76	-	4.94	3.26	1.80	-	-	-	5.07
Roseburg	3.96	2.64	0.04	6.63	4.11	2.70	0.04	0.04	0.04	6.84
OR Sub-total	21.58	12.50	0.09	34.18	22.18	12.79	0.09	0.09	0.09	35.06
Spokane	44.32	24.51	1.60	70.44	45.32	24.96	1.61	1.61	1.61	71.89
Spokane NWP	19.00	10.50	0.69	30.19	19.42	10.70	0.69	0.69	0.69	30.81
WAID Sub-total	63.32	35.02	2.29	100.62	64.74	35.65	2.31	2.31	2.40	102.70
Scenario #2 Total	84.90	47.52	2.38	134.80	86.91	48.44	2.40	2.40	2.40	137.76
 Case #6										
Klam Falls	2.53	1.55	-	4.08	2.56	1.57	-	-	-	4.13
La Grande	1.48	0.88	0.06	2.42	1.50	0.88	0.06	0.06	0.06	2.44
Medford	7.31	4.32	-	11.63	7.45	4.39	-	-	-	11.84
Medford NWP	2.44	1.44	-	3.88	2.48	1.46	-	-	-	3.95
Roseburg	2.98	2.18	0.04	5.20	3.06	2.21	0.04	0.04	0.04	5.31
OR Sub-total	16.75	10.36	0.09	27.20	17.05	10.51	0.09	0.09	0.09	27.66
Spokane	34.76	19.77	1.43	55.96	35.29	20.00	1.44	1.44	1.44	56.74
Spokane NWP	14.90	8.47	0.61	23.98	15.12	8.57	0.62	0.62	0.62	24.32
WAID Sub-total	49.65	28.24	2.05	79.94	50.41	28.58	2.06	2.06	2.15	81.05
Scenario #6 Total	66.40	38.60	2.14	107.14	67.47	39.09	2.15	2.15	2.15	108.71
 Case #7										
Klam Falls	3.78	2.12	-	5.90	3.91	2.19	-	-	-	6.10
La Grande	2.13	1.15	0.06	3.34	2.19	1.17	0.06	0.06	0.06	3.42
Medford	11.96	6.32	-	18.28	12.46	6.55	-	-	-	19.01
Medford NWP	3.99	2.11	-	6.09	4.15	2.18	-	-	-	6.34
Roseburg	5.01	3.13	0.04	8.18	5.28	3.24	0.04	0.04	0.04	8.56
OR Sub-total	26.88	14.82	0.09	41.80	27.99	15.34	0.09	0.09	0.09	43.43
Spokane	54.83	29.69	1.78	86.30	56.81	30.59	1.81	1.81	1.81	89.21
Spokane NWP	23.50	12.73	0.76	36.99	24.35	13.11	0.77	0.77	0.77	38.23
WAID Sub-total	78.33	42.42	2.54	123.29	81.16	43.70	2.58	2.58	2.67	127.44
Scenario #7 Total	105.21	57.24	2.64	165.09	109.15	59.05	2.67	2.67	2.67	170.87

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
 By Class (Net of DSM Savings)
Area

		2018/2019			2019/2020					
	Residential	Commercial	Firm	Industrial	Total	Residential	Commercial	Firm	Industrial	Total
Case #2										
Klam Falls	3.26	1.91	-	5.17	3.34	1.96	-	-	5.31	
La Grande	1.85	1.03	0.06	2.94	1.89	1.05	0.06	2.99	2.99	
Medford	10.08	5.56	-	15.64	10.43	5.75	-	16.18	16.18	
Medford NWP	3.36	1.85	-	5.21	3.48	1.92	-	-	5.39	
Roseburg	4.27	2.77	0.04	7.08	4.45	2.85	0.04	7.34	7.34	
OR Sub-total	22.83	13.12	0.09	36.04	23.59	13.53	0.09	37.21		
Spokane	46.40	25.43	1.63	73.46	47.65	25.95	1.65	75.24		
Spokane NWP	19.88	10.90	0.70	31.48	20.42	11.12	0.71	32.24		
WAID Sub-total	66.28	36.33	2.33	104.94	68.06	37.07	2.35	107.48		
Scenario #2 Total	89.11	49.45	2.42	140.98	91.65	50.59	2.44	144.69		
Case #6										
Klam Falls	2.59	1.59	-	4.19	2.64	1.62	-	-	4.26	
La Grande	1.51	0.89	0.06	2.46	1.53	0.90	0.06	2.49	2.49	
Medford	7.58	4.46	-	12.05	7.76	4.56	-	12.32	12.32	
Medford NWP	2.53	1.49	-	4.02	2.59	1.52	-	4.11	4.11	
Roseburg	3.14	2.24	0.04	5.42	3.23	2.29	0.04	5.55	5.55	
OR Sub-total	17.36	10.67	0.09	28.12	17.74	10.89	0.09	28.73		
Spokane	35.79	20.22	1.45	57.46	36.41	20.49	1.46	58.36		
Spokane NWP	15.34	8.67	0.62	24.63	15.60	8.78	0.62	25.01		
WAID Sub-total	51.13	28.89	2.07	82.09	52.01	29.28	2.08	83.37		
Scenario #6 Total	68.48	39.56	2.16	110.21	69.75	40.17	2.18	112.10		
Case #7										
Klam Falls	4.03	2.27	-	6.30	4.17	2.36	-	-	6.53	
La Grande	2.25	1.20	0.06	3.50	2.31	1.23	0.06	3.60	3.60	
Medford	12.96	6.81	-	19.77	13.53	7.11	-	20.64	20.64	
Medford NWP	4.32	2.27	-	6.59	4.51	2.37	-	6.88	6.88	
Roseburg	5.56	3.35	0.04	8.94	5.85	3.48	0.04	9.37	9.37	
OR Sub-total	29.12	15.89	0.09	45.11	30.37	16.54	0.10	47.01		
Spokane	58.70	31.44	1.84	91.97	60.81	32.30	1.86	94.97		
Spokane NWP	25.16	13.47	0.79	39.42	26.06	13.84	0.80	40.70		
WAID Sub-total	83.86	44.91	2.62	131.39	86.86	46.15	2.66	135.67		
Scenario #7 Total	112.98	60.80	2.72	176.49	117.23	62.69	2.75	182.68		

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
By Class (Net of DSM Savings)
Area

		2020/2021			2021/2022				
		Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #2									
Klam Falls	3.40	2.00	-	5.40	3.47	2.04	-	-	5.51
La Grande	1.91	1.06	0.06	3.03	1.94	1.07	0.06	0.06	3.07
Medford	10.65	5.87	-	16.52	10.94	6.03	-	-	16.98
Medford NWP	3.55	1.96	-	5.51	3.65	2.01	-	-	5.66
Roseburg	4.60	2.90	0.04	7.54	4.77	2.97	0.04	0.04	7.77
OR Sub-total	24.11	13.79	0.09	37.99	24.78	14.12	0.09	0.09	38.99
Spokane	48.52	26.24	1.65	76.41	49.49	26.64	1.66	1.66	77.79
Spokane NWP	20.79	11.24	0.71	32.74	21.21	11.42	0.71	0.71	33.34
WAID Sub-total	69.32	37.48	2.36	109.16	70.70	38.06	2.38	2.38	111.13
Scenario #2 Total	93.42	51.27	2.45	147.14	95.48	52.18	2.47	2.47	150.12
 Case #6									
Klam Falls	2.66	1.64	-	4.29	2.69	1.66	-	-	4.35
La Grande	1.54	0.90	0.06	2.50	1.55	0.91	0.06	0.06	2.52
Medford	7.85	4.62	-	12.46	7.99	4.69	-	-	12.68
Medford NWP	2.62	1.54	-	4.15	2.66	1.56	-	-	4.23
Roseburg	3.29	2.31	0.04	5.64	3.38	2.34	0.04	0.04	5.75
OR Sub-total	17.95	11.00	0.09	29.05	18.28	11.16	0.09	0.09	29.53
Spokane	36.77	20.59	1.46	58.82	37.22	20.78	1.46	1.46	59.47
Spokane NWP	15.75	8.83	0.63	25.21	15.95	8.91	0.63	0.63	25.48
WAID Sub-total	52.52	29.42	2.08	84.03	53.17	29.69	2.09	2.09	84.95
Scenario #6 Total	70.48	40.42	2.18	113.08	71.45	40.85	2.18	2.18	114.48
 Case #7									
Klam Falls	4.28	2.42	-	6.69	4.40	2.49	-	-	6.89
La Grande	2.36	1.24	0.06	3.67	2.42	1.27	0.06	0.06	3.75
Medford	13.94	7.33	-	21.27	14.44	7.59	-	-	22.03
Medford NWP	4.65	2.44	-	7.09	4.81	2.53	-	-	7.34
Roseburg	6.10	3.57	0.04	9.71	6.38	3.68	0.04	0.04	10.10
OR Sub-total	31.32	17.01	0.09	48.43	32.46	17.57	0.09	0.09	50.12
Spokane	62.41	32.89	1.87	97.17	64.19	33.61	1.90	1.90	99.70
Spokane NWP	26.74	14.09	0.80	41.64	27.51	14.40	0.81	0.81	42.72
WAID Sub-total	89.16	46.98	2.68	138.82	91.70	48.01	2.71	2.71	142.42
Scenario #7 Total	120.48	63.99	2.77	187.25	124.15	65.58	2.80	2.80	192.54

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
 By Class (Net of DSM Savings)

Area	Residential	Commercial	Firm	Industrial	Total	Residential	Commercial	Firm	Industrial	Total
Case #2										
Klam Falls	3.55	2.09	-	5.64	3.64	2.15	-	-	5.79	
La Grande	1.98	1.08	0.06	3.11	2.02	1.10	0.06	3.17		
Medford	11.23	6.19	-	17.43	11.58	6.38	-	17.97		
Medford NWP	3.74	2.06	-	5.81	3.86	2.13	-	5.99		
Roseburg	4.95	3.04	0.04	8.02	5.15	3.11	0.04	8.30		
OR Sub-total	25.45	14.47	0.09	40.01	26.25	14.87	0.09	41.21		
Spokane	50.50	27.01	1.68	79.19	51.67	27.48	1.69	80.84		
Spokane NWP	21.64	11.58	0.72	33.93	22.14	11.78	0.72	34.64		
WAID Sub-total	72.14	38.59	2.39	113.13	73.81	39.26	2.41	115.48		
Scenario #2 Total	97.59	53.06	2.49	153.14	100.06	54.12	2.51	156.69		
Case #6										
Klam Falls	2.73	1.68	-	4.41	2.78	1.71	-	4.49		
La Grande	1.57	0.91	0.06	2.54	1.59	0.92	0.06	2.57		
Medford	8.13	4.77	-	12.90	8.31	4.87	-	13.18		
Medford NWP	2.71	1.59	-	4.30	2.77	1.62	-	4.39		
Roseburg	3.46	2.37	0.04	5.87	3.56	2.41	0.04	6.01		
OR Sub-total	18.60	11.33	0.09	30.02	19.01	11.54	0.09	30.65		
Spokane	37.67	20.95	1.47	60.09	38.27	21.19	1.48	60.93		
Spokane NWP	16.14	8.98	0.63	25.75	16.39	9.08	0.63	26.11		
WAID Sub-total	53.81	29.93	2.10	85.84	54.66	30.27	2.11	87.04		
Scenario #6 Total	72.41	41.26	2.19	115.86	73.67	41.81	2.20	117.69		
Case #7										
Klam Falls	4.53	2.57	-	7.10	4.68	2.66	-	7.34		
La Grande	2.48	1.29	0.06	3.83	2.55	1.32	0.06	3.92		
Medford	14.93	7.86	-	22.79	15.50	8.16	-	23.66		
Medford NWP	4.98	2.62	-	7.60	5.17	2.72	-	7.89		
Roseburg	6.68	3.79	0.04	10.51	7.00	3.92	0.04	10.95		
OR Sub-total	33.59	18.14	0.09	51.82	34.90	18.77	0.10	53.77		
Spokane	65.93	34.28	1.92	102.13	67.92	35.06	1.94	104.92		
Spokane NWP	28.25	14.69	0.82	43.76	29.10	15.02	0.83	44.96		
WAID Sub-total	94.18	48.97	2.74	145.89	97.02	50.08	2.77	149.88		
Scenario #7 Total	127.78	67.10	2.83	197.71	131.92	68.86	2.87	203.65		

Appendix 2.4 - B
Annual Avg. Demand (MDth/d)
 By Class (Net of DSM Savings)
Area

	Case #2	2024/2025			2025/2026			Total
		Residential	Commercial	Firm Industrial	Total	Residential	Commercial	
Klam Falls	3.71	2.19	-	5.89	3.75	2.20	-	5.95
La Grande	2.04	1.10	0.06	3.21	2.06	1.11	0.06	3.23
Medford	11.82	6.50	-	18.32	11.96	6.55	-	18.51
Medford NWP	3.94	2.17	-	6.11	3.99	2.18	-	6.17
Roseburg	5.33	3.16	0.04	8.53	5.40	3.18	0.04	8.61
OR Sub-total	26.84	15.12	0.09	42.06	27.15	15.23	0.09	42.47
Spokane	52.50	27.74	1.70	81.94	52.84	27.86	1.70	82.40
Spokane NWP	22.49	11.89	0.73	35.11	22.64	11.94	0.73	35.31
WAID Sub-total	74.99	39.63	2.42	117.05	75.48	39.80	2.43	117.71
Scenario #2 Total	101.84	54.75	2.52	159.10	102.64	55.03	2.52	160.19
Case #6								
Klam Falls	2.81	1.73	-	4.54	2.84	1.74	-	4.57
La Grande	1.60	0.92	0.06	2.58	1.61	0.93	0.06	2.59
Medford	8.41	4.92	-	13.33	8.49	4.95	-	13.44
Medford NWP	2.80	1.64	-	4.44	2.83	1.65	-	4.48
Roseburg	3.65	2.44	0.04	6.12	3.68	2.45	0.04	6.17
OR Sub-total	19.26	11.65	0.09	31.00	19.45	11.71	0.09	31.25
Spokane	38.57	21.27	1.48	61.32	38.75	21.33	1.48	61.56
Spokane NWP	16.52	9.12	0.63	26.27	16.60	9.14	0.63	26.38
WAID Sub-total	55.10	30.39	2.11	87.59	55.35	30.47	2.11	87.94
Scenario #6 Total	74.36	42.03	2.20	118.60	74.81	42.18	2.21	119.19
Case #7								
Klam Falls	4.80	2.72	-	7.53	4.86	2.74	-	7.61
La Grande	2.60	1.33	0.06	3.99	2.63	1.34	0.06	4.03
Medford	15.92	8.37	-	24.29	16.12	8.45	-	24.57
Medford NWP	5.31	2.79	-	8.10	5.37	2.82	-	8.19
Roseburg	7.29	4.00	0.04	11.33	7.39	4.03	0.04	11.46
OR Sub-total	35.92	19.22	0.09	55.24	36.37	19.38	0.09	55.85
Spokane	69.45	35.58	1.96	106.98	69.99	35.77	1.96	107.71
Spokane NWP	29.76	15.25	0.84	45.84	29.99	15.33	0.84	46.16
WAID Sub-total	99.21	50.82	2.79	152.83	99.97	51.10	2.80	153.87
Scenario #7 Total	135.13	70.04	2.89	208.06	136.35	70.48	2.90	209.72

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
 Area

	Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #2								
Klam Falls	876.10	518.76	-	1,394.86	927.25	544.47	-	1,471.72
La Grande	512.27	300.66	21.35	834.28	541.60	315.44	21.24	878.27
Medford	2,318.33	1,396.65	-	3,714.98	2,503.05	1,487.80	-	3,990.85
Medford NWP	772.78	465.55	-	1,238.33	834.35	495.93	-	1,330.28
Roseburg	892.68	698.29	13.17	1,604.14	959.41	738.09	13.24	1,710.74
OR Sub-total	5,372.16	3,379.90	34.52	8,786.58	5,765.65	3,581.73	34.48	9,381.86
Spokane	10,794.49	6,495.69	491.74	17,781.92	11,604.50	6,918.91	508.89	19,032.30
Spokane NWP	4,625.78	2,783.87	210.75	7,620.39	4,972.49	2,965.25	218.10	8,155.84
WAID Sub-total	15,420.27	9,279.55	702.49	25,402.31	16,576.99	9,884.16	726.99	27,188.14
Case #2 Total	20,792.43	12,659.46	737.01	34,188.90	22,342.65	13,465.89	761.47	36,570.01
 Case #6								
Klam Falls	838.15	502.52	-	1,340.68	857.06	513.18	-	1,370.24
La Grande	492.67	291.34	21.35	805.35	503.77	297.51	21.24	822.51
Medford	2,197.48	1,340.99	-	3,538.47	2,275.27	1,381.41	-	3,656.68
Medford NWP	732.49	447.00	-	1,179.49	758.42	460.47	-	1,218.89
Roseburg	851.20	674.11	13.10	1,538.41	878.76	691.43	13.11	1,583.30
OR Sub-total	5,111.99	3,255.96	34.45	8,402.40	5,273.28	3,344.00	34.34	8,651.62
Spokane	10,322.40	6,221.68	480.33	17,024.41	10,661.19	6,394.93	487.52	17,543.64
Spokane NWP	4,423.89	2,666.43	205.85	7,296.17	4,569.08	2,740.68	208.94	7,518.70
WAID Sub-total	14,746.28	8,888.12	686.18	24,320.58	15,230.27	9,135.61	696.46	25,062.34
Case #6 Total	19,858.28	12,144.07	720.63	32,722.98	20,503.54	12,479.61	730.80	33,713.96
 Case #7								
Klam Falls	948.41	550.24	-	1,498.65	999.48	575.18	-	1,574.66
La Grande	553.42	321.53	21.35	896.30	578.80	332.78	21.24	932.81
Medford	2,533.25	1,498.30	-	4,031.56	2,731.02	1,593.44	-	4,324.47
Medford NWP	844.42	499.43	-	1,343.85	910.34	531.15	-	1,441.49
Roseburg	965.17	741.32	13.38	1,719.88	1,040.04	784.61	13.37	1,838.02
OR Sub-total	5,844.68	3,610.83	34.73	9,490.24	6,259.68	3,817.16	34.61	10,111.45
Spokane	11,739.79	7,011.46	515.03	19,266.28	12,577.39	7,440.86	530.15	20,548.40
Spokane NWP	5,031.34	3,004.91	220.73	8,256.98	5,390.31	3,188.94	227.21	8,806.46
WAID Sub-total	16,771.13	10,016.37	735.75	27,523.25	17,967.70	10,629.80	757.35	29,354.86
Case #7 Total	22,615.80	13,627.21	770.48	37,013.49	24,227.38	14,446.97	791.96	39,466.30

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
 Area

	Case #2	2008/2009			2009/2010		
	Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial
Klam Falls	955.67	559.27	-	1,514.95	990.36	577.86	-
La Grande	556.70	322.07	21.18	899.96	575.80	330.84	21.18
Medford	2,617.69	1,539.35	-	4,157.04	2,752.55	1,598.86	-
Medford NWP	872.56	513.12	-	1,385.68	917.52	532.95	-
Roseburg	1,010.63	762.86	13.24	1,786.72	1,069.84	791.44	13.28
OR Sub-total	6,013.25	3,696.67	34.42	9,744.35	6,306.07	3,831.96	34.47
Spokane	12,104.17	7,174.74	517.66	19,796.57	12,750.34	7,485.43	531.45
Spokane NWP	5,186.21	3,074.89	221.85	8,482.95	5,462.71	3,208.04	227.77
WAID Sub-total	17,290.37	10,249.64	739.51	28,279.52	18,213.05	10,693.47	759.22
Case #2 Total	23,303.62	13,946.31	773.93	38,023.87	24,519.12	14,525.43	793.69
Case #6							
Klam Falls	871.92	522.14	-	1,394.06	888.56	532.33	-
La Grande	512.98	302.47	21.18	836.63	522.83	307.83	21.18
Medford	2,336.56	1,411.42	-	3,747.98	2,405.09	1,444.03	-
Medford NWP	778.85	470.47	-	1,249.33	801.70	481.34	-
Roseburg	906.32	705.76	13.12	1,625.20	936.57	721.37	13.16
OR Sub-total	5,406.63	3,412.27	34.30	8,853.20	5,554.75	3,486.90	34.34
Spokane	10,961.56	6,541.02	493.37	17,995.96	11,299.63	6,702.20	501.53
Spokane NWP	4,697.81	2,803.30	211.44	7,712.55	4,842.70	2,872.37	214.94
WAID Sub-total	15,659.38	9,344.32	704.81	25,708.51	16,142.33	9,574.57	716.47
Case #6 Total	21,066.01	12,756.59	739.11	34,561.71	21,697.08	13,061.47	750.81
Case #7							
Klam Falls	1,048.05	598.26	-	1,646.31	1,098.30	623.60	-
La Grande	603.36	342.74	21.18	967.28	629.19	353.84	21.18
Medford	2,913.80	1,674.01	-	4,587.82	3,106.88	1,755.78	-
Medford NWP	971.27	558.00	-	1,529.27	1,035.63	585.29	-
Roseburg	1,120.12	822.57	13.37	1,956.06	1,206.31	862.28	13.40
OR Sub-total	6,656.61	3,995.59	34.55	10,686.75	7,076.31	4,180.79	34.58
Spokane	13,382.82	7,844.10	543.11	21,770.03	14,304.62	8,282.81	561.48
Spokane NWP	5,735.49	3,361.76	232.76	9,330.01	6,130.55	3,549.77	240.64
WAID Sub-total	19,118.31	11,205.86	775.87	31,100.04	20,435.17	11,832.58	802.12
Case #7 Total	25,774.92	15,201.45	810.42	41,786.79	27,511.48	16,013.37	836.70

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
 Area

	Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #2								
Klam Falls	1,016.71	591.52	-	1,608.23	1,042.34	604.06	-	1,646.39
La Grande	591.03	338.05	21.18	950.27	606.41	345.02	21.24	972.67
Medford	2,871.97	1,648.69	-	4,520.66	2,999.24	1,699.48	-	4,698.72
Medford NWP	957.32	549.56	-	1,506.89	999.75	566.49	-	1,566.24
Roseburg	1,124.86	815.12	13.30	1,953.28	1,182.33	839.29	13.35	2,034.97
OR Sub-total	6,561.90	3,942.94	34.49	10,539.33	6,830.06	4,054.34	34.59	10,918.99
Spokane	13,347.10	7,750.79	542.93	21,640.82	13,972.67	8,019.95	553.30	22,545.91
Spokane NWP	5,718.03	3,321.77	232.69	9,272.48	5,985.69	3,437.12	237.13	9,659.94
WAID Sub-total	19,065.12	11,072.55	775.62	30,913.30	19,958.36	11,457.06	790.42	32,205.85
Case #2 Total	25,627.02	15,015.49	810.11	41,452.63	26,788.43	15,511.40	825.01	43,124.84
 Case #6								
Klam Falls	897.45	538.76	-	1,436.22	904.50	543.59	-	1,448.08
La Grande	528.51	311.29	21.18	860.98	532.85	313.79	21.24	867.88
Medford	2,456.27	1,467.60	-	3,923.87	2,506.88	1,489.52	-	3,996.40
Medford NWP	818.76	489.20	-	1,307.96	835.63	496.51	-	1,332.13
Roseburg	961.47	732.87	13.17	1,707.51	985.41	743.54	13.20	1,742.15
OR Sub-total	5,662.46	3,539.72	34.36	9,236.53	5,765.27	3,586.94	34.44	9,386.64
Spokane	11,574.06	6,817.41	507.15	18,898.61	11,830.48	6,919.00	512.12	19,261.60
Spokane NWP	4,960.31	2,921.75	217.35	8,099.41	5,070.21	2,965.28	219.48	8,254.97
WAID Sub-total	16,534.37	9,739.15	724.50	26,998.02	16,900.69	9,884.28	731.60	27,516.57
Case #6 Total	22,196.83	13,278.87	758.85	36,234.55	22,665.95	13,471.22	766.04	36,903.21
 Case #7								
Klam Falls	1,144.30	645.74	-	1,790.04	1,188.58	664.32	-	1,852.90
La Grande	655.45	365.46	21.18	1,042.09	679.69	375.58	21.24	1,076.50
Medford	3,302.25	1,835.68	-	5,137.93	3,499.20	1,910.87	-	5,410.07
Medford NWP	1,100.75	611.89	-	1,712.64	1,166.40	636.96	-	1,803.36
Roseburg	1,294.71	899.68	13.43	2,207.82	1,382.61	935.55	13.48	2,331.64
OR Sub-total	7,497.46	4,358.45	34.62	11,890.52	7,916.49	4,523.27	34.71	12,474.47
Spokane	15,274.44	8,718.43	579.07	24,571.94	16,242.06	9,133.35	593.71	25,969.11
Spokane NWP	6,546.19	3,736.47	248.17	10,530.83	6,960.88	3,914.29	254.45	11,129.62
WAID Sub-total	21,820.63	12,454.90	827.25	35,102.78	23,202.94	13,047.64	848.16	37,098.73
Case #7 Total	29,318.08	16,813.35	861.86	46,993.30	31,119.43	17,570.91	882.87	49,573.20

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
Area

	Case #2	2012/2013			2013/2014		
	Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial
Klam Falls	1,058.59	610.62	-	1,669.21	1,077.73	622.15	-
La Grande	615.60	348.49	21.18	985.27	626.69	353.09	21.18
Medford	3,085.95	1,729.49	-	4,815.44	3,185.47	1,774.34	-
Medford NWP	1,028.65	576.50	-	1,605.15	1,061.82	591.45	-
Roseburg	1,229.73	857.89	13.31	2,100.93	1,282.30	881.74	13.30
OR Sub-total	7,018.52	4,122.98	34.49	11,175.99	7,234.02	4,222.76	34.49
Spokane	14,432.95	8,201.81	557.01	23,191.77	14,934.98	8,396.78	564.98
Spokane NWP	6,182.53	3,515.06	238.72	9,936.31	6,397.26	3,598.62	242.13
WAID Sub-total	20,615.48	11,716.87	795.73	33,128.09	21,332.24	11,995.39	807.11
Case #2 Total	27,634.00	15,839.85	830.22	44,304.08	28,566.26	16,218.15	841.60
Klam Falls	904.33	544.26	-	1,448.59	907.24	548.30	-
La Grande	533.16	314.03	21.18	868.37	535.02	315.20	21.18
Medford	2,528.97	1,496.45	-	4,025.42	2,563.65	1,513.80	-
Medford NWP	842.99	498.82	-	1,341.81	854.55	504.60	-
Roseburg	1,003.07	749.77	13.16	1,765.99	1,024.04	759.70	13.15
OR Sub-total	5,812.52	3,603.32	34.34	9,450.18	5,884.50	3,641.61	34.33
Spokane	11,985.22	6,964.81	512.77	19,462.80	12,180.64	7,026.41	515.94
Spokane NWP	5,136.52	2,984.92	219.76	8,341.20	5,220.27	3,011.32	221.12
WAID Sub-total	17,121.74	9,949.73	732.53	27,804.00	17,400.91	10,037.73	737.06
Case #6 Total	22,934.27	13,553.05	766.87	37,254.18	23,285.41	13,679.34	771.39
Klam Falls	1,224.79	678.16	-	1,902.95	1,265.75	698.80	-
La Grande	700.43	383.39	21.18	1,105.00	722.45	392.43	21.18
Medford	3,660.37	1,968.95	-	5,629.32	3,836.46	2,046.53	-
Medford NWP	1,220.12	656.32	-	1,876.44	1,278.82	682.18	-
Roseburg	1,465.43	968.58	13.45	2,447.46	1,554.63	1,008.47	13.46
OR Sub-total	8,271.14	4,655.40	34.63	12,961.17	8,658.12	4,828.42	34.64
Spokane	17,084.65	9,482.81	601.79	27,169.24	17,968.29	9,839.00	615.36
Spokane NWP	7,321.99	4,064.06	257.91	11,643.96	7,700.69	4,216.72	263.73
WAID Sub-total	24,406.64	13,546.87	859.69	38,813.21	25,668.98	14,055.72	879.09
Case #7 Total	32,677.78	18,202.27	894.32	51,774.38	34,327.10	18,884.14	913.73

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
Area

		2014/2015			2015/2016				
		Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
	Case #2								
Klam Falls	1,096.91	636.76	-	1,733.67	1,121.52	654.35	-	-	1,775.87
La Grande	636.27	357.81	21.18	1,015.26	648.84	364.08	21.24	1,034.15	
Medford	3,285.20	1,825.81	-	5,111.01	3,409.76	1,887.90	-	5,297.66	
Medford NWP	1,095.07	608.60	-	1,703.67	1,136.59	629.30	-	1,765.89	
Roseburg	1,336.04	909.10	13.30	2,258.43	1,397.93	940.27	13.33	2,351.52	
OR Sub-total	7,449.48	4,338.08	34.48	11,822.05	7,714.64	4,475.89	34.57	12,225.09	
Spokane	15,402.83	8,585.02	572.40	24,560.25	15,937.50	8,813.45	583.04	25,333.99	
Spokane NWP	6,597.33	3,679.30	245.32	10,521.94	6,826.03	3,777.19	249.87	10,853.10	
WAID Sub-total	22,000.16	12,264.32	817.72	35,082.20	22,763.52	12,590.65	832.91	36,187.08	
Case #2 Total	29,449.64	16,602.40	852.20	46,904.25	30,478.16	17,066.53	867.48	48,412.18	
	Case #6								
Klam Falls	909.37	553.50	-	1,462.86	915.60	560.92	-	-	1,476.52
La Grande	536.27	316.33	21.18	873.78	539.11	318.55	21.24	878.91	
Medford	2,596.74	1,533.53	-	4,130.26	2,644.90	1,560.95	-	4,205.86	
Medford NWP	865.58	511.18	-	1,376.75	881.63	520.32	-	1,401.95	
Roseburg	1,045.31	770.97	13.13	1,829.42	1,070.78	785.06	13.16	1,869.00	
OR Sub-total	5,953.27	3,685.50	34.32	9,673.08	6,052.04	3,745.81	34.39	9,832.24	
Spokane	12,351.18	7,081.30	518.86	19,951.33	12,555.70	7,164.00	523.73	20,246.43	
Spokane NWP	5,293.36	3,034.84	222.37	8,550.57	5,382.30	3,070.29	224.46	8,677.04	
WAID Sub-total	17,644.54	10,116.14	741.22	28,501.90	17,941.00	10,234.29	748.18	28,923.48	
Case #6 Total	23,597.81	13,801.63	775.54	38,174.98	23,993.04	13,980.09	782.58	38,755.71	
	Case #7								
Klam Falls	1,305.45	724.08	-	2,029.53	1,351.31	752.64	-	-	2,103.95
La Grande	742.98	401.51	21.18	1,165.68	765.76	412.14	21.24	1,199.14	
Medford	4,015.95	2,134.74	-	6,150.69	4,223.54	2,234.02	-	6,457.56	
Medford NWP	1,338.65	711.58	-	2,050.23	1,407.85	744.67	-	2,152.52	
Roseburg	1,645.09	1,053.84	13.46	2,712.39	1,745.68	1,103.30	13.51	2,862.49	
OR Sub-total	9,048.13	5,025.75	34.65	14,108.52	9,494.14	5,246.78	34.74	14,775.66	
Spokane	18,806.71	10,186.58	627.99	29,621.29	19,701.75	10,574.27	644.15	30,920.17	
Spokane NWP	8,060.02	4,365.68	269.14	12,694.84	8,443.61	4,531.83	276.07	13,251.50	
WAID Sub-total	26,866.73	14,552.26	897.13	42,316.12	28,145.35	15,106.10	920.22	44,171.67	
Case #7 Total	35,914.86	19,578.01	931.78	56,424.64	37,639.49	20,352.88	954.96	58,947.34	

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
 Area

	Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #2								
Klam Falls	1,140.88	666.35	-	1,807.23	1,164.43	680.14	-	1,844.57
La Grande	654.72	367.17	21.18	1,043.07	663.84	370.91	21.18	1,055.94
Medford	3,478.32	1,926.70	-	5,405.02	3,574.67	1,974.16	-	5,548.82
Medford NWP	1,159.44	642.23	-	1,801.67	1,191.56	658.05	-	1,849.61
Roseburg	1,444.06	961.85	13.28	2,419.19	1,499.47	984.99	13.26	2,497.71
OR Sub-total	7,877.41	4,564.30	34.46	12,476.18	8,093.96	4,668.25	34.44	12,796.65
Spokane	16,177.72	8,946.73	584.40	25,708.85	16,540.43	9,109.83	589.02	26,239.28
Spokane NWP	6,933.31	3,834.31	250.46	11,018.08	7,088.76	3,904.21	252.44	11,245.41
WAID Sub-total	23,111.04	12,781.04	834.85	36,726.93	23,629.19	13,014.04	841.46	37,484.69
Case #2 Total	30,988.44	17,345.35	869.32	49,203.11	31,723.15	17,682.28	875.90	50,281.33
 Case #6								
Klam Falls	922.98	566.00	-	1,488.98	934.62	573.44	-	1,508.05
La Grande	541.87	319.55	21.18	882.60	546.92	321.79	21.18	889.90
Medford	2,669.15	1,576.79	-	4,245.94	2,718.86	1,601.85	-	4,320.71
Medford NWP	889.72	525.60	-	1,415.31	906.43	533.95	-	1,440.38
Roseburg	1,088.84	794.49	13.11	1,896.44	1,117.00	806.69	13.10	1,936.80
OR Sub-total	6,112.55	3,782.42	34.30	9,929.26	6,223.83	3,837.72	34.29	10,095.83
Spokane	12,685.82	7,215.02	523.67	20,424.52	12,880.91	7,301.54	526.18	20,708.62
Spokane NWP	5,436.78	3,092.15	224.43	8,753.36	5,520.39	3,129.23	225.50	8,875.12
WAID Sub-total	18,122.60	10,307.18	748.10	29,177.88	18,401.29	10,430.77	751.68	29,583.75
Case #6 Total	24,235.15	14,089.59	782.40	39,107.14	24,625.12	14,268.49	785.97	39,679.58
 Case #7								
Klam Falls	1,380.23	774.70	-	2,154.92	1,425.41	800.17	-	2,225.57
La Grande	779.14	419.37	21.18	1,219.69	799.72	428.25	21.18	1,249.16
Medford	4,366.72	2,305.95	-	6,672.67	4,547.71	2,392.57	-	6,940.28
Medford NWP	1,455.57	768.65	-	2,224.22	1,515.91	797.52	-	2,313.43
Roseburg	1,829.79	1,141.10	13.46	2,984.36	1,927.58	1,182.27	13.46	3,123.31
OR Sub-total	9,811.45	5,409.76	34.65	15,255.86	10,216.33	5,600.78	34.64	15,851.75
Spokane	20,013.22	10,838.62	649.04	31,500.88	20,737.10	11,165.54	659.09	32,561.73
Spokane NWP	8,577.10	4,645.12	278.16	13,500.38	8,887.33	4,785.23	282.47	13,955.03
WAID Sub-total	28,590.32	15,483.74	927.20	45,001.25	29,624.43	15,950.77	941.56	46,516.76
Case #7 Total	38,401.77	20,893.50	961.84	60,257.11	39,840.76	21,551.54	976.20	62,368.51

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
 Area

	Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #2								
Klam Falls	1,190.19	696.29	-	1,886.48	1,220.21	717.11	-	1,937.32
La Grande	675.02	375.77	21.18	1,071.98	688.81	381.96	21.24	1,092.01
Medford	3,681.00	2,028.78	-	5,709.77	3,806.05	2,098.10	-	5,904.15
Medford NWP	1,227.00	676.26	-	1,903.26	1,268.68	699.37	-	1,968.05
Roseburg	1,559.41	1,010.03	13.24	2,582.68	1,625.35	1,040.44	13.27	2,679.06
OR Sub-total	8,332.61	4,787.13	34.43	13,154.17	8,609.10	4,936.98	34.50	13,580.58
Spokane	16,935.02	9,283.32	595.16	26,813.50	17,391.01	9,470.72	600.51	27,462.23
Spokane NWP	7,257.43	3,978.57	255.07	11,491.07	7,452.42	4,058.88	257.36	11,768.66
WAID Sub-total	24,192.45	13,261.89	850.22	38,304.56	24,843.43	13,529.60	857.87	39,230.90
Case #2 Total	32,525.06	18,049.02	884.65	51,458.73	33,452.53	18,466.58	892.38	52,811.48

Case #6

Klam Falls	946.41	581.26	-	1,527.67	962.46	592.37	-	1,554.82
La Grande	551.74	324.03	21.18	896.95	558.67	327.44	21.24	907.34
Medford	2,768.46	1,628.29	-	4,396.74	2,832.41	1,665.37	-	4,497.77
Medford NWP	922.82	542.76	-	1,465.58	944.14	555.12	-	1,499.26
Roseburg	1,145.60	818.79	13.09	1,977.48	1,178.26	834.73	13.12	2,026.12
OR Sub-total	6,335.02	3,895.13	34.28	10,264.43	6,475.93	3,975.03	34.36	10,485.31
Spokane	13,063.58	7,382.03	528.95	20,974.56	13,289.37	7,479.86	532.08	21,301.31
Spokane NWP	5,598.24	3,163.73	226.69	8,988.66	5,694.58	3,205.65	228.04	9,128.27
WAID Sub-total	18,661.82	10,545.76	755.64	29,963.22	18,983.95	10,685.51	760.12	30,429.58
Case #6 Total	24,996.84	14,440.88	789.92	40,227.65	25,459.88	14,660.54	794.48	40,914.89

Case #7

Klam Falls	1,471.98	826.98	-	2,298.96	1,522.98	859.98	-	2,382.96
La Grande	820.75	437.22	21.18	1,279.16	844.37	447.60	21.24	1,313.20
Medford	4,731.43	2,484.34	-	7,215.77	4,937.78	2,594.54	-	7,532.32
Medford NWP	1,577.14	828.11	-	2,405.26	1,645.93	864.85	-	2,510.77
Roseburg	2,027.59	1,223.66	13.45	3,264.71	2,134.03	1,271.95	13.49	3,419.47
OR Sub-total	10,628.91	5,800.31	34.64	16,463.85	11,085.09	6,038.92	34.72	17,158.73
Spokane	21,425.80	11,473.88	669.97	33,569.65	22,194.42	11,790.54	678.57	34,663.53
Spokane NWP	9,182.05	4,917.38	287.13	14,386.56	9,511.03	5,053.09	290.82	14,854.93
WAID Sub-total	30,607.85	16,391.26	957.10	47,956.21	31,705.44	16,843.63	969.39	49,518.46
Case #7 Total	41,236.76	22,191.57	991.74	42,790.53	22,882.55	1,004.11	66,677.19	

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
 Area

	Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #2								
Klam Falls	1,239.71	729.70	-	1,969.41	1,266.72	745.86	-	2,012.58
La Grande	697.86	385.13	21.18	1,104.17	709.45	389.74	21.18	1,120.38
Medford	3,886.50	2,143.98	-	6,030.48	3,994.59	2,201.31	-	6,195.90
Medford NWP	1,295.50	714.66	-	2,010.16	1,331.53	733.77	-	2,065.30
Roseburg	1,679.07	1,059.15	13.22	2,751.44	1,741.62	1,083.01	13.21	2,837.84
OR Sub-total	8,798.64	5,032.62	34.40	13,865.66	9,043.91	5,153.70	34.39	14,232.01
Spokane	17,711.18	9,576.42	602.43	27,890.04	18,064.62	9,723.32	606.87	28,394.82
Spokane NWP	7,589.21	4,104.18	258.19	11,951.58	7,740.26	4,167.14	260.09	12,167.48
WAID Sub-total	25,300.39	13,680.61	860.62	39,841.62	25,804.88	13,890.46	866.96	40,562.30
Case #2 Total	34,099.03	18,713.23	895.02	53,707.28	34,848.79	19,044.17	901.35	54,794.31
 Case #6								
Klam Falls	969.83	597.82	-	1,567.65	982.43	605.88	-	1,588.31
La Grande	561.66	328.51	21.18	911.35	566.90	330.70	21.18	918.79
Medford	2,864.08	1,684.89	-	4,548.97	2,916.19	1,712.87	-	4,629.06
Medford NWP	954.69	561.63	-	1,516.32	972.06	570.96	-	1,543.02
Roseburg	1,202.57	842.83	13.07	2,058.48	1,232.91	854.50	13.07	2,100.48
OR Sub-total	6,552.84	4,015.67	34.26	10,602.77	6,670.50	4,074.91	34.25	10,779.66
Spokane	13,420.90	7,517.13	532.31	21,470.34	13,586.80	7,585.49	533.94	21,706.23
Spokane NWP	5,750.52	3,221.63	228.13	9,200.28	5,821.19	3,250.92	228.83	9,300.95
WAID Sub-total	19,171.43	10,738.75	760.45	30,670.62	19,407.99	10,836.42	762.77	31,007.18
Case #6 Total	25,724.27	14,754.42	794.70	41,273.39	26,078.49	14,911.33	797.02	41,786.84
 Case #7								
Klam Falls	1,561.35	882.32	-	2,443.67	1,607.39	909.16	-	2,516.55
La Grande	862.92	454.34	21.18	1,338.45	883.88	462.89	21.18	1,367.95
Medford	5,087.39	2,676.11	-	7,763.50	5,269.40	2,771.71	-	8,041.11
Medford NWP	1,695.80	892.04	-	2,587.83	1,756.47	923.90	-	2,680.37
Roseburg	2,225.72	1,304.76	13.44	3,543.93	2,329.50	1,344.17	13.44	3,687.11
OR Sub-total	11,433.19	6,209.57	34.63	17,677.39	11,846.64	6,411.83	34.62	18,293.09
Spokane	22,780.61	12,003.92	684.01	35,468.54	23,429.82	12,267.20	691.85	36,388.88
Spokane NWP	9,761.83	5,144.54	293.15	15,199.51	10,039.63	5,257.37	296.51	15,593.51
WAID Sub-total	32,542.44	17,148.46	977.15	50,668.05	33,469.45	17,524.57	988.36	51,982.38
Case #7 Total	43,975.62	23,358.03	1,011.78	68,345.43	45,316.09	23,936.41	1,022.98	70,275.48

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
 Area

	Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial	Total
Case #2								
Klam Falls	1,294.32	763.48	-	2,057.80	1,328.66	783.76	-	2,112.42
La Grande	721.24	394.54	21.18	1,136.97	735.74	400.31	21.24	1,157.29
Medford	4,100.10	2,260.40	-	6,360.51	4,228.12	2,329.62	-	6,557.74
Medford NWP	1,366.70	753.47	-	2,120.17	1,409.37	776.54	-	2,185.91
Roseburg	1,806.81	1,107.90	13.20	2,927.91	1,880.25	1,135.75	13.23	3,029.23
OR Sub-total	9,289.18	5,279.79	34.38	14,603.35	9,582.15	5,425.98	34.46	15,042.59
Spokane	18,434.17	9,859.76	611.48	28,905.41	18,859.84	10,030.21	616.68	29,506.73
Spokane NWP	7,898.20	4,225.61	262.06	12,385.88	8,080.19	4,298.66	264.29	12,643.14
WAID Sub-total	26,332.37	14,085.37	873.55	41,291.29	26,940.04	14,328.87	880.97	42,149.87
Case #2 Total	35,621.55	19,365.16	907.93	55,894.64	36,522.18	19,754.85	915.43	57,192.46
 Case #6								
Klam Falls	996.02	614.56	-	1,610.58	1,013.37	625.29	-	1,638.67
La Grande	571.99	332.88	21.18	926.06	579.26	336.08	21.24	936.57
Medford	2,966.86	1,741.42	-	4,708.28	3,033.42	1,778.04	-	4,811.45
Medford NWP	988.95	580.47	-	1,569.43	1,011.14	592.68	-	1,603.82
Roseburg	1,264.63	866.56	13.06	2,144.25	1,301.22	881.03	13.08	2,195.34
OR Sub-total	6,788.46	4,135.90	34.24	10,958.60	6,938.41	4,213.12	34.32	11,185.85
Spokane	13,750.72	7,646.01	536.18	21,932.91	13,968.38	7,733.61	539.13	22,241.13
Spokane NWP	5,891.01	3,276.86	229.79	9,397.66	5,983.85	3,314.41	231.06	9,529.32
WAID Sub-total	19,641.73	10,922.87	765.97	31,330.57	19,952.24	11,048.02	770.19	31,770.45
Case #6 Total	26,430.19	15,058.77	800.21	42,289.18	26,890.65	15,261.13	804.51	42,956.29
 Case #7								
Klam Falls	1,654.53	938.06	-	2,592.60	1,709.90	969.96	-	2,679.86
La Grande	905.51	471.35	21.18	1,398.04	930.35	481.01	21.24	1,432.59
Medford	5,448.80	2,868.94	-	8,317.74	5,657.37	2,979.48	-	8,636.85
Medford NWP	1,816.27	956.31	-	2,772.58	1,885.79	993.16	-	2,878.95
Roseburg	2,436.70	1,384.89	13.44	3,835.03	2,555.12	1,429.06	13.47	3,997.65
OR Sub-total	12,261.81	6,619.55	34.62	18,915.99	12,738.54	6,852.66	34.71	19,625.91
Spokane	24,064.85	12,511.14	700.04	37,276.03	24,790.89	12,796.22	708.57	38,295.68
Spokane NWP	10,311.35	5,361.92	300.02	15,973.29	10,622.07	5,484.10	303.67	16,409.84
WAID Sub-total	34,376.21	17,873.06	1,000.05	53,249.32	35,412.97	18,280.32	1,012.24	54,705.52
Case #7 Total	46,638.02	24,492.61	1,034.67	72,165.30	48,151.50	25,132.98	1,046.94	74,331.43

Appendix 2.4 - C
Annual Demand Total (MWh)
 By Class (Net of DSM Savings)
Area

	Case #2	2024/2025			2025/2026		
	Residential	Commercial	Firm Industrial	Total	Residential	Commercial	Firm Industrial
Klam Falls	1,353.27	797.59	-	2,150.86	1,368.53	802.78	-
La Grande	746.25	403.06	21.18	1,170.49	752.70	404.77	21.18
Medford	4,314.93	2,372.99	-	6,687.92	4,365.16	2,391.71	-
Medford NWP	1,438.31	791.00	-	2,229.31	1,455.05	797.24	-
Roseburg	1,944.59	1,154.17	13.18	3,111.94	1,969.50	1,160.90	13.18
OR Sub-total	9,797.35	5,518.81	34.36	15,350.52	9,910.95	5,557.39	15,502.70
Spokane	19,162.93	10,125.19	618.85	29,906.97	19,287.69	10,169.53	620.11
Spokane NWP	8,210.10	4,339.37	265.22	12,814.69	8,263.57	4,358.37	265.76
WAID Sub-total	27,373.03	14,464.56	884.07	42,721.66	27,551.26	14,527.90	885.87
Case #2 Total	37,170.37	19,983.37	918.44	58,072.18	37,462.21	20,085.29	920.23
Klam Falls	1,024.22	631.30	-	1,655.52	1,034.99	634.33	-
La Grande	582.57	336.76	21.18	940.51	586.84	337.80	21.18
Medford	3,069.59	1,795.85	-	4,865.44	3,100.52	1,806.05	-
Medford NWP	1,023.20	598.62	-	1,621.81	1,033.51	602.02	-
Roseburg	1,330.59	888.84	13.04	2,232.47	1,344.74	892.48	13.04
OR Sub-total	7,030.15	4,251.37	34.22	11,315.75	7,100.61	4,272.68	34.22
Spokane	14,079.64	7,763.55	538.86	22,382.06	14,144.86	7,786.28	539.49
Spokane NWP	6,031.55	3,327.24	230.94	9,589.72	6,059.50	3,336.98	231.21
WAID Sub-total	20,111.19	11,090.79	769.80	31,971.78	20,204.36	11,123.25	770.71
Case #6 Total	27,141.35	15,342.16	804.02	43,287.53	27,304.96	15,395.93	804.93
Klam Falls	1,753.81	993.85	-	2,747.67	1,774.37	1,001.55	-
La Grande	949.97	486.78	21.18	1,457.93	959.02	489.21	21.18
Medford	5,809.78	3,055.36	-	8,865.15	5,882.88	3,083.97	-
Medford NWP	1,936.59	1,018.45	-	2,955.05	1,960.96	1,027.99	-
Roseburg	2,661.64	1,460.75	13.43	4,135.82	2,699.09	1,470.99	13.43
OR Sub-total	13,111.80	7,015.20	34.62	20,161.61	13,276.32	7,073.71	34.62
Spokane	25,349.16	12,985.69	713.78	39,048.63	25,544.55	13,055.44	715.52
Spokane NWP	10,861.34	5,565.30	305.91	16,732.54	10,945.08	5,595.19	306.65
WAID Sub-total	36,210.50	18,550.99	1,019.68	55,781.17	36,489.63	18,650.63	1,022.18
Case #7 Total	49,322.30	25,566.19	1,054.30	75,942.78	49,765.95	25,724.34	1,056.79

Appendix 2.4 D
Peak Day Demand - 11/2006 - 10/2026 (Net of DSM Savings)
 Peak Day = February 15

Gas Year	Klam Falls	La Grande	Medford	Medford NWP	Rosburg	Oregon	Spokane	Spokane NWP	WAID	Total
Case #2										
2006-2007	11.65	8.39	22.38	7.46	13.96	63.84	191.88	82.23	274.11	337.95
2007-2008	12.41	8.91	24.14	8.05	15.09	68.60	207.24	88.81	296.04	364.64
2008-2009	12.86	9.19	25.32	8.44	15.88	71.69	217.17	93.06	310.23	381.92
2009-2010	13.36	9.51	26.57	8.86	16.74	75.05	228.88	98.07	326.96	402.00
2010-2011	13.73	9.76	27.65	9.22	17.49	77.86	239.12	102.46	341.58	419.44
2011-2012	14.02	9.97	28.62	9.54	18.19	80.35	248.49	106.47	354.96	435.31
2012-2013	14.29	10.14	29.49	9.83	18.86	82.61	256.69	109.97	366.66	449.27
2013-2014	14.55	10.31	30.39	10.13	19.54	84.92	264.43	113.29	377.72	462.63
2014-2015	14.85	10.46	31.34	10.45	20.28	87.37	271.82	116.45	388.26	475.63
2015-2016	15.16	10.62	32.31	10.77	21.05	89.91	279.49	119.73	399.22	489.13
2016-2017	15.46	10.74	33.08	11.03	21.68	91.99	284.98	122.14	407.12	499.11
2017-2018	15.74	10.85	33.90	11.30	22.32	94.12	289.85	124.22	414.07	508.19
2018-2019	16.08	11.01	34.85	11.62	23.06	96.61	295.75	126.74	422.49	519.10
2019-2020	16.42	11.16	35.80	11.93	23.81	99.12	301.44	129.18	430.62	529.74
2020-2021	16.72	11.32	36.69	12.23	24.48	101.43	306.82	131.48	438.30	539.73
2021-2022	17.06	11.47	37.65	12.55	25.22	103.95	311.92	133.66	445.58	549.53
2022-2023	17.41	11.63	38.59	12.86	25.99	106.48	317.22	135.92	453.14	559.62
2023-2024	17.78	11.80	39.52	13.17	26.76	109.03	322.30	138.10	460.39	569.42
2024-2025	18.14	11.96	40.46	13.49	27.57	111.62	327.62	140.38	468.00	579.62
2025-2026	18.20	11.99	40.53	13.51	27.61	111.84	327.74	140.43	468.18	580.01

Appendix 2.4 D
Peak Day Demand - 11/2006 - 10/2026 (Net of DSM Savings)
 Peak Day = February 15

Gas Year	Klam Falls	La Grande	Medford	Medford NWP	Rosburg	Oregon	Spokane	Spokane NWP	WAID	Total
Case #6										
2006-2007	11.09	8.04	21.20	7.07	13.22	60.61	182.77	78.33	261.10	321.71
2007-2008	11.37	8.24	21.92	7.31	13.69	62.52	189.10	81.04	270.14	332.66
2008-2009	11.67	8.44	22.66	7.55	14.18	64.51	195.73	83.88	279.61	344.12
2009-2010	11.95	8.63	23.34	7.78	14.66	66.35	202.25	86.68	288.93	355.28
2010-2011	12.10	8.73	23.83	7.94	15.01	67.62	207.16	88.78	295.94	363.56
2011-2012	12.16	8.78	24.16	8.05	15.26	68.41	210.53	90.23	300.75	369.17
2012-2013	12.21	8.82	24.47	8.16	15.52	69.17	213.62	91.55	305.17	374.34
2013-2014	12.27	8.85	24.78	8.26	15.78	69.95	216.48	92.78	309.26	379.21
2014-2015	12.33	8.87	25.11	8.37	16.06	70.74	219.10	93.90	313.01	383.75
2015-2016	12.40	8.89	25.43	8.48	16.34	71.55	221.53	94.94	316.48	388.02
2016-2017	12.53	8.95	25.79	8.60	16.61	72.48	224.16	96.07	320.23	392.71
2017-2018	12.68	9.02	26.21	8.74	16.94	73.59	226.93	97.26	324.19	397.78
2018-2019	12.83	9.09	26.65	8.88	17.28	74.73	229.53	98.37	327.90	402.62
2019-2020	12.99	9.16	27.08	9.03	17.63	75.89	231.95	99.40	331.35	407.23
2020-2021	13.13	9.22	27.50	9.17	17.94	76.95	234.47	100.47	334.95	411.90
2021-2022	13.28	9.28	27.94	9.31	18.29	78.10	236.70	101.42	338.13	416.23
2022-2023	13.44	9.35	28.36	9.45	18.65	79.26	238.97	102.39	341.36	420.63
2023-2024	13.60	9.42	28.80	9.60	19.01	80.42	241.23	103.35	344.58	425.00
2024-2025	13.77	9.48	29.23	9.74	19.37	81.59	243.40	104.28	347.68	429.28
2025-2026	13.82	9.51	29.31	9.77	19.41	81.81	243.52	104.34	347.86	429.67

Appendix 2.4 D
Peak Day Demand - 11/2006 - 10/2026 (Net of DSM Savings)
 Peak Day = February 15

Gas Year	Klam Falls	La Grande	Medford	Medford NWP	Rosburg	Oregon	Spokane	Spokane NWP	WAID	Total
Case #7										
2006-2007	12.78	9.17	24.62	8.21	15.36	70.14	211.04	90.45	301.49	371.63
2007-2008	13.46	9.58	26.36	8.79	16.50	74.68	225.76	96.75	322.51	397.20
2008-2009	14.16	9.99	28.15	9.38	17.69	79.37	240.96	103.27	344.23	423.60
2009-2010	14.85	10.40	29.86	9.95	18.89	83.96	257.13	110.20	367.33	451.29
2010-2011	15.46	10.82	31.63	10.54	20.09	88.56	273.74	117.32	391.06	479.62
2011-2012	15.97	11.16	33.16	11.05	21.18	92.52	288.53	123.66	412.19	504.71
2012-2013	16.49	11.50	34.72	11.57	22.35	96.64	303.28	129.98	433.25	529.89
2013-2014	17.04	11.84	36.31	12.10	23.55	100.85	317.38	136.02	453.39	554.24
2014-2015	17.63	12.15	38.01	12.67	24.83	105.29	330.83	141.79	472.62	577.91
2015-2016	18.23	12.48	39.71	13.24	26.13	109.79	344.33	147.57	491.90	601.69
2016-2017	18.72	12.72	41.20	13.73	27.31	113.70	352.71	151.16	503.87	617.56
2017-2018	19.32	13.03	42.84	14.28	28.57	118.03	363.75	155.89	519.64	637.66
2018-2019	19.94	13.33	44.51	14.84	29.84	122.46	374.68	160.57	535.26	657.71
2019-2020	20.56	13.64	46.17	15.39	31.12	126.88	385.01	164.99	550.00	676.88
2020-2021	21.13	13.94	47.78	15.93	32.33	131.10	395.19	169.35	564.55	695.65
2021-2022	21.75	14.24	49.44	16.48	33.63	135.54	405.15	173.62	578.77	714.31
2022-2023	22.38	14.55	51.08	17.03	34.97	140.02	414.80	177.75	592.55	732.57
2023-2024	23.02	14.86	52.73	17.58	36.30	144.49	424.43	181.87	606.30	750.79
2024-2025	23.67	15.17	54.36	18.12	37.67	149.00	434.16	186.04	620.20	769.19
2025-2026	23.73	15.20	54.43	18.14	37.71	149.22	434.28	186.09	620.37	769.59

Appendix 2.4 D
Peak Day Demand - 11/2006 - 10/2026 (Net of DSM Savings)
 Peak Day = December 20

Gas Year	Klam Falls	La Grande	Medford	Medford NWP	Roseburg	Oregon	Spokane	Spokane NWP	WA/ID	Total
Case #2										
2006-2007	12.82	7.56	43.06	14.35	15.80	93.60	145.23	62.24	207.47	301.07
2007-2008	13.66	8.00	46.67	15.56	17.03	100.91	156.36	67.00	223.36	324.27
2008-2009	14.18	8.25	49.21	16.40	17.93	105.99	163.71	70.15	233.86	339.84
2009-2010	14.77	8.55	51.93	17.31	18.96	111.53	172.44	73.89	246.33	357.86
2010-2011	15.25	8.78	54.16	18.05	19.86	116.11	180.22	77.22	257.43	373.54
2011-2012	15.59	8.98	56.16	18.72	20.67	120.12	187.53	80.35	267.87	388.00
2012-2013	15.88	9.13	57.92	19.31	21.40	123.64	194.02	83.13	277.15	400.79
2013-2014	16.16	9.29	59.71	19.90	22.20	127.26	200.44	85.87	286.31	413.58
2014-2015	16.48	9.44	61.53	20.51	23.01	130.98	206.51	88.47	294.97	425.95
2015-2016	16.83	9.60	63.52	21.17	23.91	135.04	212.60	91.08	303.68	438.72
2016-2017	17.18	9.71	65.15	21.72	24.68	138.42	217.56	93.24	310.79	449.22
2017-2018	17.49	9.82	66.73	22.24	25.43	141.72	221.45	94.91	316.35	458.07
2018-2019	17.86	9.96	68.60	22.87	26.29	145.57	226.16	96.92	323.09	468.65
2019-2020	18.25	10.10	70.51	23.50	27.16	149.52	230.96	98.97	329.93	479.45
2020-2021	18.63	10.25	72.35	24.12	28.02	153.37	235.26	100.81	336.07	489.44
2021-2022	18.99	10.39	74.22	24.74	28.84	157.19	239.55	102.65	342.21	499.39
2022-2023	19.37	10.54	76.14	25.38	29.73	161.17	243.86	104.49	348.36	509.52
2023-2024	19.79	10.69	78.00	26.00	30.64	165.13	247.89	106.21	354.10	519.23
2024-2025	20.20	10.85	79.86	26.62	31.57	169.09	252.08	108.01	360.09	529.18
2025-2026	20.72	11.05	82.09	27.36	32.63	173.87	256.97	110.11	367.07	540.94

Appendix 2.4 D
Peak Day Demand - 11/2006 - 10/2026 (Net of DSM Savings)
 Peak Day = December 20

Gas Year	Klam Falls	La Grande	Medford	Medford NWP	Roseburg	Oregon	Spokane	Spokane NWP	WA/ID	Total
Case #6										
2006-2007	12.25	7.27	40.90	13.63	15.05	89.10	138.86	59.51	198.38	287.48
2007-2008	12.57	7.44	42.38	14.13	15.56	92.07	143.42	61.47	204.89	296.96
2008-2009	12.91	7.62	43.98	14.66	16.13	95.30	148.30	63.56	211.86	307.17
2009-2010	13.23	7.79	45.46	15.15	16.69	98.33	153.15	65.64	218.79	317.12
2010-2011	13.44	7.89	46.48	15.49	17.11	100.42	156.86	67.23	224.09	324.51
2011-2012	13.51	7.94	47.15	15.72	17.41	101.73	159.52	68.37	227.89	329.61
2012-2013	13.57	7.97	47.73	15.93	17.69	102.92	162.00	69.43	231.43	334.35
2013-2014	13.63	8.00	48.41	16.14	17.99	104.17	164.42	70.47	234.89	339.05
2014-2015	13.68	8.03	49.02	16.34	18.30	105.37	166.63	71.41	238.05	343.42
2015-2016	13.76	8.05	49.68	16.56	18.63	106.68	168.62	72.26	240.88	347.55
2016-2017	13.92	8.11	50.42	16.81	18.95	108.19	171.00	73.29	244.29	352.49
2017-2018	14.08	8.17	50.82	17.08	19.34	109.49	173.20	74.23	247.43	356.92
2018-2019	14.24	8.23	52.09	17.36	19.73	111.66	175.30	75.12	250.42	362.08
2019-2020	14.43	8.30	52.96	17.65	20.14	113.47	177.37	76.01	253.37	366.84
2020-2021	14.60	8.36	53.82	17.94	20.54	115.25	179.38	76.87	256.25	371.51
2021-2022	14.75	8.42	54.66	18.22	20.92	116.97	181.29	77.68	258.97	375.94
2022-2023	14.94	8.48	55.52	18.51	21.34	118.78	183.15	78.48	261.63	380.41
2023-2024	15.11	8.54	56.37	18.79	21.75	120.57	184.95	79.24	264.19	384.76
2024-2025	15.30	8.60	57.21	19.07	22.17	122.35	186.68	79.98	266.67	389.02
2025-2026	15.59	8.71	58.34	19.45	22.70	124.79	189.07	81.01	270.07	394.86

Appendix 2.4 D
Peak Day Demand - 11/2006 - 10/2026 (Net of DSM Savings)
 Peak Day = December 20

Gas Year	Klam Falls	La Grande	Medford	Medford NWP	Roseburg	Oregon	Spokane	Spokane NWP	WA/ID	Total
Case #7										
2006-2007	14.02	8.22	47.43	15.81	17.31	102.79	158.98	68.14	227.12	329.91
2007-2008	14.76	8.54	50.95	16.98	18.49	109.73	169.53	72.66	242.19	351.92
2008-2009	15.58	8.93	54.80	18.27	19.86	117.43	180.78	77.48	258.26	375.69
2009-2010	16.39	9.32	58.45	19.51	21.29	124.95	192.87	82.66	275.52	400.47
2010-2011	17.18	9.70	62.18	20.73	22.73	132.52	205.47	88.06	293.52	426.05
2011-2012	17.77	10.02	65.33	21.78	23.99	138.88	217.01	93.01	310.02	448.90
2012-2013	18.34	10.32	68.48	22.83	25.29	145.27	228.60	97.97	326.57	471.84
2013-2014	18.94	10.64	71.70	23.90	26.68	151.86	240.12	102.91	343.03	494.90
2014-2015	19.57	10.96	74.99	25.00	28.11	158.63	251.04	107.59	358.63	517.26
2015-2016	20.25	11.25	78.49	26.16	29.63	165.78	261.70	112.16	373.86	539.64
2016-2017	20.82	11.49	81.64	27.21	31.04	172.20	269.31	115.42	384.72	556.92
2017-2018	21.48	11.77	84.89	28.30	32.52	178.95	277.95	119.12	397.07	576.02
2018-2019	22.17	12.05	88.21	29.40	34.00	185.82	286.61	122.83	409.44	595.26
2019-2020	22.87	12.33	91.59	30.53	35.50	192.82	295.18	126.50	421.67	614.49
2020-2021	23.59	12.62	94.96	31.65	37.03	199.85	303.23	129.94	433.17	633.03
2021-2022	24.24	12.89	98.25	32.75	38.48	206.62	311.44	133.46	444.89	651.51
2022-2023	24.94	13.18	101.66	33.89	40.03	213.69	319.22	136.79	456.01	669.70
2023-2024	25.67	13.46	104.98	34.99	41.59	220.70	326.78	140.03	466.81	687.51
2024-2025	26.39	13.75	108.25	36.08	43.19	227.67	334.38	143.28	477.66	705.33
2025-2026	27.21	14.07	111.80	37.27	44.89	235.23	342.27	146.66	488.93	724.16

Demand-Side Management Measures Evaluated

Appendix 3.1

Appendix 3.1: Measures Evaluated

Residential

Multifamily Home Replacement (replace-on-burnout) measures

Domestic hot water measures

- Condensing boiler
- High-efficiency boiler
- High-efficiency water heater
- Tankless water heater

HVAC measures

- Condensing boiler
- Direct vent gas unit heater
- Gas pool heater
- Gas spa heater
- High-efficiency boiler
- High-efficiency furnace
- Programmable thermostat

Shell measures

- Air sealing weather stripping

Multifamily Home Retrofit (replace-before-burnout) measures

Domestic hot water

- Combo boiler (air)
- Distribution controls
- Faucet aerators
- High-efficiency water heater
- Low-flow showerheads
- Passive solar water heating
- Pipe insulation
- Tankless water heater

HVAC measures

- Boiler tune-up
- Direct vent gas unit heater
- Duct insulation retrofit
- Duct sealing
- Furnace retrofit
- Gas pool heater
- Gas spa heater
- Power burner
- Programmable thermostat
- Vent damper
- Zone and loop controls

Shell measures

- Attic insulation
- Exterior doors
- Floor insulation
- Walls insulation

Window retrofit (pre-1974 windows)

New Multifamily Construction measures

Domestic hot water measures

Condensing boiler

High-efficiency boiler

Passive solar water heating

Pool blanket

HVAC measures

Condensing boiler

Gas pool heater

Gas spa heater

High-efficiency boiler

High-efficiency furnace

Programmable thermostat

Single-Family Home Replacement (replace-on-burnout) measures

Domestic hot water measures

High-efficiency water heater

Tankless water heater

HVAC measures

Direct vent gas unit heater

Gas pool heater

Gas spa heater

High-efficiency furnace

Programmable thermostat

Shell measures

Air sealing weather stripping

Single-Family Home Retrofit (replace-before-burnout) measures

Domestic hot water

High-efficiency water heater

Tankless water heater

HVAC measures

Direct vent gas unit heater

Gas pool heater

Gas spa heater

High-efficiency furnace

Programmable thermostat

Shell measures

Air sealing weather stripping

Single-Family Home New Construction measures

Appliances

Horizontal-axis clothes washer

Domestic hot water

Combo boiler (air)

- Combo boiler (hydronic)
- Passive solar water heating
- Pool blanket
- HVAC measures
 - Duct commissioning
 - Gas pool heater
 - Gas spa heater
 - High-efficiency furnace
 - Programmable thermostat
- Shell measures
 - Exterior doors
- Whole home measures
 - Energy Star home

Non-Residential

- Cooking replacement measures
 - BBQ/Rotisserie oven
 - Charbroiler
 - Cheesemelter
 - Combination oven
 - Convection oven
 - Conveyer broiler
 - Energy Star pressure cooker
 - Infrared general purpose fryer
 - Open burner
 - Oven conveyer
 - Pizza/Deck oven
 - Rack/Tray oven
 - Revolving oven
 - Salamander
- Cooking retrofit measures
 - BBQ/Rotisserie oven
 - Charbroiler
 - Cheesemelter
 - Combination oven
 - Convection oven
 - Conveyer broiler
 - Energy Star pressure cooker
 - Infrared fryer griddle
 - Infrared general purpose fryer
 - Open burner
 - Oven conveyer
 - Pizza/Deck oven
 - Rack/Tray oven
 - Revolving oven
 - Salamander

- Envelope retrofit
 - Roof insulation
 - Wall insulation
 - Window retrofit
- Miscellaneous retrofit
 - Coin-op gas clothes dryer
 - Commercial Gas clothes dryer
 - Crematoria
 - Gas pool heater
 - Gas spa heater
 - Kiln
- Miscellaneous replacement
 - Coin-op gas clothes dryer
 - Commercial Gas clothes dryer
 - Crematoria
 - Gas pool heater
 - Gas spa heater
 - Kiln
- Space heating replacement
 - Programmable thermostat
 - Radiant heat
- Space heating retrofit
 - Boiler tune-up
 - Power burner
 - Programmable thermostat
 - Rooftop maintenance
 - Vent damper
 - Warm-up control
- Water heating replacement
 - Boiler
 - Coin-op clothes washer
 - Commercial Clothes washer
 - Condensing boiler
 - Condensing storage water heater
 - Pool blanket
 - Pre-rinse sprayer
 - Tankless water heater
- Water heating retrofit
 - Coin-op clothes washer
 - Commercial clothes washer
 - Condensing tank water heater
 - Low-flow showerheads
 - Pre-rinse sprayers
 - Recirculation controls
- Solar water heating

Demand-Side Management Programs Evaluated

Appendix 3.2

Appendix 3.2: Programs Evaluated

OREGON

Mandated programs - Residential

MFH shell program (wall, attic, floor, duct, pipe insulation and weather stripping)
SFH shell program (wall, attic, floor, duct, pipe insulation and weather stripping)

Residential measures deemed cost-effective in preliminary evaluation

Residential hot water heating program (SFH and MFH high-efficiency water heaters)
Residential low-flow showerhead program (SFH and MFH low-flow showerhead and two aerator package targeted for homes with pre-code showerheads)
MFH boiler program (new and replacement high-efficiency boilers for hot water and/or space heating purposes)
MFH duct insulation program (retrofit duct sealing)
MFH space heat program (vent dampers)
SFH space heat program (high-efficiency natural gas furnaces in new and replacement applications)
Residential pool/spa program (pool blankets for SFH and MFH home applications)
SFH duct insulation program (duct sealing and duct commissioning)
Residential programmable thermostat program (SFH and MFH retrofit applications only)
Residential tankless water heater program (SFH and MFH retrofit applications only)
Residential resource-efficiency washing machine program (SFH and MFH non-common area applications)

Non-residential measures deemed cost-effective in preliminary evaluation

Commercial dryer program (coin-operated and commercial clothes dryers)
Energy Star cooking program (Energy Star pressure steamers)
Commercial kiln program (replacement)
Non-residential low-flow showerhead program
Non-residential pool program (pool blanket)
Commercial shell program (roof and wall insulation)
Commercial space heat program (programmable thermostats, radiant heat, rooftop maintenance, warm-up controls, vent dampers, boiler tune-ups, power burner retrofits)
Commercial pre-rinse sprayer program (replacement and retrofit)
Commercial water heating program (tankless water heaters, condensing storage water heater, condensing tank water heater, high-efficiency boilers, recirculation controls, condensing boilers)

Residential measures individually tested within SENDOUT®

SFH space heat program (replacement market, direct vent gas space heater units)
MFH space heat program (retrofit zone and loop controls, replacement power burners, boiler tune-up, replacement direct vent space heating units, replacement and new HVAC condensing boilers)

- MFH water heating program (new and replacement water heating condensing boilers)
- Energy Star residential package (whole home adoption of multiple Energy Star technologies)
- Residential pool program (new and replacement high-efficiency pool heaters in SFH and MFH applications)
- Residential passive solar water heating program (new and retrofit solar water pre-heating in SFH and MFH applications)

Non-residential measures individually tested within SENDOUT®

- Crematory program
- Commercial prescriptive cooking program (pizza/deck oven replacement, conveyer broiler replacement and retrofit, cheesemelter replacement, salamander replacement, charbroiler replacement, BBQ/rotisserie replacement, convection over replacement, rack/tray oven replacement, infrared fryer griddle replacement, combination oven replacement, infrared general purpose fryer replacement).

Residential measures deemed cost-ineffective during preliminary evaluation

- Residential water heating program
- Residential door program (new and retrofit insulated doors in SFH and MFH applications)
- MFH water heating program (MFH water heating distribution controls)
- MFH window program (high-efficiency windows to replace pre-'74 vintage windows)
- Residential spa program (high-efficiency gas spa heaters in new and replacement SFH and MFH home applications)
- SFH water heating program (combo boilers, both air and hydronic, in new construction applications)
- SFH window program (high-efficiency windows to replace pre-'74 and '74 to '92 vintage windows)

Non-residential measures deemed cost-ineffective in preliminary evaluation

- Commercial cooking program (retrofit and replacement revolving ovens, retrofit and replacement oven conveyers, retrofit convection ovens, retrofit salamanders, retrofit cheesemelters, retrofit infrared general purpose fryer, retrofit and replacement open burners, retrofit infrared fryer griddle, retrofit pizza/deck oven, retrofit BBQ/rotisserie, retrofit charbroiler, retrofit rack/tray oven, retrofit combination oven)
- Commercial dryer program (retrofit coin-operated and commercial clothes dryers)
- Commercial kiln program (retrofit)
- Non-residential pool/spa program (replacement and retrofit natural gas pool and spa heaters)
- Non-residential passive solar water heating program (passive solar pre-heating of water)
- Commercial washing machine program (coin-operated and commercial, replacement and retrofit clothes washers)
- Non-residential windows (retrofit)

WASHINGTON/IDAHO

Residential measures deemed cost-effective in preliminary evaluation

Residential pool program (pool blankets for SFH and MFH applications)
SFH space heat program (high-efficiency furnace, new and replacement)
Programmable thermostat program "1" (new and replacement SFH and MFH applications)
Programmable thermostat program "2" (retrofit SFH and MFH applications)

Non-residential measures deemed cost-effective in preliminary evaluation

Commercial dryer program (coin-operated and commercial clothes dryers)
Commercial Energy Star cooking program (replacement and retrofit Energy Star pressure steamers)
Commercial kiln program (replacement market only)
Commercial low-flow showerhead program (replacement of pre-code units only)
Commercial pool/spa program (replacement pool blankets)
Commercial shell program (roof and wall insulation)
Commercial space heat program (replacement radiant heat units, replacement and retrofit programmable thermostats, retrofit vent dampers, power burners, rooftop maintenance, warm-up controls and boiler tune-ups)
Commercial pre-rinse sprayer program (replacement and retrofit)

Residential measures individually tested within SENDOUT®

Residential water heating program (high-efficiency water heaters for SFH and MFH applications)
MFH boiler program (high-efficiency boilers for new and replacement applications for both domestic hot water and space heating)
MFH duct program (duct insulation and duct sealing)
MFH shell program (wall, attic and floor insulation as well as weather stripping)
MFH window program
SFH duct program (duct sealing, insulation and duct commissioning)
SFH shell program (wall, attic and floor insulation as well as weather stripping)
SFH windows program
MFH furnace program (new and replacement high-efficiency furnaces)
MFH space heating program (vent dampers, replacement direct vent gas unit heaters, new and replacement condensing boilers, retrofit power burners, boiler tune-up, zone and loop controls)
Residential low-flow showerhead program (aerators and replacement of pre-code showerheads)
MFH water heating program (new and replacement condensing boilers)
Residential pool program (new and replacement high-efficiency pool heaters for SFH and MFH applications)
Residential tankless water heater program (SFH and MFH, replacement and retrofit units)
Residential resource-efficient washing machine program (horizontal-axis washing machines) evaluated as a replace-on-burnout appliance measure independent for all residential applications.

Non-residential measures individually tested within SENDOUT®

Commercial water heating program (replacement tankless water heaters, high-efficiency boilers, condensing storage water heaters, condensing boilers and retrofit recirculation controls and condensing tank water heaters)

Crematory program

Commercial prescriptive cooking program (retrofit conveyer broilers, replacement pizza/deck ovens, conveyer broilers, cheesemelters, salamanders, charbroiler, BBQ/rotisserie, conveyer oven, rack/tray oven, infrared fryer griddle, infrared general purpose fryer and combination ovens)

Residential measures deemed cost-ineffective in preliminary evaluation

Residential water heating program

Residential door program (SFH and MFH for new and retrofit applications)

Residential Energy Star package program (Energy Star package of measures)

MFH water heating program (distribution controls)

MFH pipe insulation program

Residential spa program (new and replacement high-efficiency spa heaters for SFH and MFH applications)

SFH water heating program (combo boilers, both air and hydronic)

SFH space heating program (retrofit and replacement direct vent unit heaters, retrofit high-efficiency furnaces)

SFH pipe insulation program

Residential passive solar water heating program (new and retrofit in SFH and MFH applications)

Non-residential measures deemed cost-ineffective in preliminary evaluation

Commercial cooking program (replacement revolving oven, oven conveyer and open burners as well as retrofit convection ovens, salamanders, cheesemelters, infrared fryer griddles, infrared general purpose fryer, pizza/deck ovens, BBQ/rotisserie, charbroiler, rack/tray oven, combination oven, revolving oven, oven conveyer and open burner measures)

Commercial dryer program (coin-operated and commercial dryers)

Commercial kiln program (retrofit applications only)

Commercial pool/spa program (retrofit and replacement high-efficiency pool and spa heaters)

Commercial passive solar water heating program (passive solar water pre-heating)

Commercial washing machine program (retrofit and replacement coin-operated and commercial washing machines)

Commercial window program (window retrofits)

General Assumptions

Appendix 6.1

Appendix 6.1 - General Assumptions

GDP/Inflation Rates

2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1.7%	1.9%	2.1%	2.1%	2.2%	2.4%	2.5%	2.4%	2.3%	2.4%
2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
2.4%	2.4%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%

Discount rate = 7.41%

Unserved Core Rate = \$2,000/MDth

AECO, Sumas, Rockies Prices

Attached

Non-AECO, Sumas and Rockies Basis Pricing

Station 2 = Sumas minus \$.10

Malin = AECO plus \$.80

Spokane = AECO plus \$1.00

Coos Bay LNG * = AECO plus \$1.50

Heating Degree Days

Attached

*Assumes proposed facility operational by November 2011. This option is only included in case numbers 7 - 9

Appendix 6.1
Klamath Falls Heating Degree Days
Source: NOAA with added peak days

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	33	25	24	24	23	9	2	0	6	8	28	26
2	41	23	29	23	20	12	3	0	2	7	35	22
3	39	38	32	29	21	17	1	1	3	6	36	16
4	42	32	31	22	25	21	5	2	3	12	33	20
5	44	24	25	25	22	21	6	0	1	15	30	24
6	47	30	26	27	21	18	2	1	8	17	32	26
7	45	29	22	28	15	13	3	1	5	18	30	30
8	40	30	21	23	10	6	4	0	7	21	30	32
9	32	30	18	22	13	4	5	0	6	15	28	25
10	37	18	22	23	15	3	2	0	4	13	21	25
11	51	20	27	15	9	2	1	2	10	16	27	38
12	43	22	29	12	11	5	2	0	11	20	28	39
13	25	52	31	29	10	5	1	0	4	17	27	42
14	25	61	27	26	23	1	1	0	7	13	33	40
15	24	64	37	19	25	2	2	3	5	11	35	37
16	33	63	34	18	21	6	9	0	5	15	29	36
17	40	57	31	15	11	3	7	0	3	12	31	36
18	32	36	34	23	9	2	6	1	2	14	25	48
19	24	40	24	19	11	5	2	2	2	19	27	63
20	27	34	21	18	12	6	3	2	9	18	21	72
21	21	36	16	11	15	7	5	3	17	15	20	62
22	26	33	18	11	13	4	2	6	17	15	24	53
23	27	33	22	20	9	3	3	9	21	25	28	33
24	28	26	29	30	14	3	2	8	23	24	24	43
25	29	37	24	28	13	3	4	6	19	22	31	42
26	41	43	21	23	9	4	2	6	14	26	29	45
27	44	39	24	16	5	2	1	4	8	23	32	47
28	41	42	26	11	6	7	1	3	7	27	31	33
29	34	23	28	21	7	8	2	4	10	23	29	36
30	33	0	24	22	5	5	0	10	12	28	32	40
31	33	0	23	0	6	0	0	9	0	27	0	49
	1081	1040	800	633	429	207	89	83	251	542	866	1180
												7201

Appendix 6.1
 La Grande Heating Degree Days
 Source: NOAA with added peak days

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December	
1	41	45	18	22	9	18	0	0	1	24	28	28	
2	42	55	21	22	5	17	6	0	0	23	32	32	
3	42	46	17	23	9	12	10	0	0	8	29	25	
4	37	38	26	18	6	7	5	0	0	16	29	25	
5	44	36	24	14	4	5	0	0	3	15	17	31	
6	59	31	27	18	6	1	0	0	2	9	19	28	
7	57	26	32	11	11	1	0	0	0	11	21	33	
8	45	27	25	11	14	1	0	0	0	13	31	37	
9	42	32	20	10	18	8	1	0	0	12	24	34	
10	42	34	29	15	16	3	3	0	6	11	20	39	
11	38	31	30	21	10	7	4	0	13	7	21	35	
12	31	30	33	23	9	0	3	0	10	2	19	34	
13	29	58	31	24	8	0	2	0	14	8	20	30	
14	27	65	23	27	8	0	0	0	17	9	23	33	
15	25	74	25	13	14	0	0	1	16	12	22	26	
16	29	61	27	19	15	10	1	0	13	5	27	22	
17	28	40	28	18	9	7	1	0	7	12	34	23	
18	30	22	22	23	8	6	0	0	1	27	37	56	
19	35	21	18	21	5	5	1	0	0	20	41	63	
20	27	29	13	13	2	4	1	0	9	14	45	67	
21	45	23	14	7	1	3	0	0	10	13	41	63	
22	41	23	24	5	11	10	0	0	7	14	36	59	
23	28	31	23	23	19	12	0	16	3	21	35	32	
24	25	33	27	25	20	11	1	13	0	27	33	34	
25	27	30	26	19	20	1	1	11	2	25	27	41	
26	23	26	21	24	22	0	0	5	15	22	23	37	
27	29	17	19	18	18	0	0	0	12	25	27	46	
28	28	14	33	20	15	0	1	0	15	29	20	49	
29	28	20	27	23	16	0	1	4	20	33	23	50	
30	24	0	29	28	9	0	0	3	17	39	29	53	
31	30	0	30	0	7	0	0	0	0	36	0	53	
	1078	1018	762	558	344	149	42	53	213	496	820	1218	6751

Appendix 6.1
Medford Heating Degree Days
Source: NOAA with added peak days

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	21	25	28	18	15	2	3	0	0	7	11	32
2	23	26	23	21	15	0	2	0	0	8	13	33
3	23	24	20	17	13	1	0	0	0	12	11	31
4	25	26	20	15	12	0	0	1	0	13	16	19
5	25	21	21	10	9	0	0	2	0	11	17	20
6	29	22	11	8	6	0	0	0	0	6	21	22
7	32	21	17	7	1	5	0	0	0	6	22	29
8	36	20	19	8	1	7	0	0	0	4	22	32
9	26	18	21	10	14	7	1	0	0	1	19	32
10	25	17	19	11	21	3	0	0	0	0	19	30
11	27	17	17	18	19	4	0	0	0	1	18	32
12	28	15	13	20	14	9	0	0	0	4	20	32
13	26	23	11	15	12	12	0	0	0	8	28	23
14	29	25	13	14	6	7	0	0	0	8	24	27
15	34	29	15	13	1	0	0	0	0	13	22	28
16	37	28	14	18	0	3	0	0	0	12	23	31
17	34	25	21	15	0	5	0	0	0	8	26	32
18	32	25	21	15	0	2	0	0	0	8	22	50
19	32	23	19	7	0	0	0	0	0	3	7	59
20	27	21	17	5	0	0	0	0	0	5	9	61
21	30	20	18	5	0	0	0	0	0	9	9	56
22	30	22	18	13	0	0	0	0	0	9	7	55
23	22	24	14	19	2	0	0	0	0	9	15	33
24	23	19	13	21	7	1	0	3	11	18	29	24
25	20	19	15	18	5	2	0	2	12	19	19	28
26	15	17	19	20	3	1	0	1	7	18	19	23
27	12	17	16	9	6	0	0	0	4	18	25	27
28	21	27	19	13	3	0	0	2	8	21	29	31
29	18	24	19	14	7	0	0	1	11	19	35	22
30	21	0	19	9	11	0	0	0	10	22	24	35
31	21	0	20	0	15	0	3	0	0	19	0	22
	804	640	550	406	221	71	9	12	98	331	642	1002
												4786

Appendix 6.1
Roseburg Heating Degree Days
Source: NOAA with added peak days

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	20	20	11	8	5	0	2	0	3	9	26	
2	24	19	17	11	12	5	3	3	0	5	10	
3	22	21	15	10	14	8	3	1	0	7	16	
4	20	24	15	10	11	12	7	0	0	8	17	
5	20	22	17	8	15	9	0	0	1	7	18	
6	14	21	18	17	13	7	0	0	0	5	18	
7	18	19	21	18	9	8	3	0	0	2	22	
8	16	18	20	16	9	3	0	0	0	3	19	
9	22	15	17	19	10	0	0	0	0	2	21	
10	25	21	20	18	12	0	0	2	0	2	24	
11	23	19	15	20	9	6	0	1	0	3	18	
12	20	16	21	18	8	9	0	0	0	6	12	
13	23	32	19	13	5	3	0	0	0	7	9	
14	21	48	18	9	12	2	0	0	1	6	7	
15	21	47	16	7	14	0	4	0	0	11	12	
16	21	48	18	16	11	0	1	0	0	14	16	
17	25	31	14	13	12	0	0	0	0	9	15	
18	26	19	12	10	7	0	0	0	0	6	15	
19	29	16	9	10	6	0	0	0	0	8	14	
20	31	19	7	7	4	0	0	0	0	3	12	
21	30	16	10	7	5	0	0	0	0	4	15	
22	32	22	14	10	4	0	0	0	0	8	27	
23	30	21	12	5	0	0	0	0	0	7	25	
24	23	19	17	7	1	0	0	1	0	13	26	
25	22	23	15	16	2	0	0	3	0	16	27	
26	22	21	8	17	4	0	0	1	1	13	26	
27	22	16	19	17	3	0	0	0	1	14	20	
28	23	15	21	14	0	5	0	0	2	20	21	
29	15	14	20	12	0	2	1	0	4	19	22	
30	15	0	21	10	1	1	0	2	1	20	10	
31	24	0	19	0	3	0	0	3	0	18	0	
	699	662	496	373	222	85	22	19	11	269	520	
										838	4216	

Appendix 6.1
WA/ID Heating Degree Days
Source: NOAA with added peak days

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	32	38	37	17	20	0	1	3	4	14	24	33
2	37	31	39	21	18	0	11	0	9	10	31	27
3	45	29	39	20	13	0	12	0	7	5	30	26
4	52	33	37	19	12	0	6	0	1	4	33	26
5	52	34	32	14	24	6	0	0	3	5	33	30
6	58	31	29	13	20	16	0	0	3	0	33	34
7	59	31	26	12	16	14	0	0	0	0	31	34
8	54	30	27	8	13	8	0	0	0	7	25	36
9	51	30	22	13	9	0	0	0	0	20	23	31
10	52	32	26	14	8	0	0	0	2	12	22	23
11	44	32	25	17	9	0	0	0	0	14	28	33
12	36	35	21	28	10	0	0	3	0	15	25	42
13	27	69	20	24	8	9	0	9	0	20	20	46
14	20	80	21	15	14	12	0	6	0	21	20	50
15	19	82	24	11	15	9	0	4	0	19	21	46
16	25	68	26	20	8	11	0	5	0	21	26	49
17	29	57	30	25	4	16	0	6	0	20	28	44
18	32	25	30	30	2	6	0	2	0	18	29	60
19	33	21	28	33	3	11	0	0	0	6	20	28
20	36	26	29	24	7	9	1	1	10	18	32	61
21	36	27	36	19	10	6	0	3	12	25	36	62
22	43	30	36	20	12	5	0	1	16	28	29	53
23	34	33	28	13	9	2	0	0	17	26	33	26
24	27	32	25	14	12	0	0	0	17	24	28	25
25	33	24	17	17	13	0	4	2	20	25	39	28
26	39	22	17	24	10	0	0	0	19	29	43	31
27	40	16	15	23	9	0	0	0	14	32	42	29
28	35	22	13	20	6	0	0	0	12	30	37	33
29	37	24	10	19	10	0	0	0	14	25	33	35
30	33	0	12	13	13	5	0	0	15	25	35	37
31	36	0	14	0	9	0	0	0	0	24	0	35
	1186	1044	791	560	346	145	35	45	201	556	897	1191
												6997

Appendix 6.1
Mid Price Case

	Nymex	AECO	Sumas	Rockies	Seasonal Shape
	85.5%	86.4%	85.7%		
2006	9.91	8.47	8.56	8.49	
2007	7.20	6.16	6.22	6.17	January
2008	6.80	5.82	5.88	5.83	February
2009	6.20	5.30	5.36	5.31	March
2010	6.00	5.13	5.19	5.14	April
2011	6.00	5.13	5.19	5.14	May
2012	6.20	5.30	5.36	5.31	June
2013	6.40	5.47	5.53	5.49	July
2014	6.60	5.65	5.70	5.66	August
2015	6.75	5.77	5.83	5.79	September
2016	7.15	6.12	6.18	6.13	October
2017	7.70	6.59	6.66	6.60	November
2018	8.10	6.93	7.00	6.94	December
2019	8.50	7.27	7.35	7.29	
2020	8.90	7.61	7.69	7.63	
2021	9.10	7.78	7.86	7.80	
2022	9.30	7.95	8.04	7.97	
2023	9.50	8.13	8.21	8.15	
2024	9.71	8.31	8.39	8.32	
2025	9.92	8.48	8.57	8.50	

	111%	111%	109%	109%	96%	94%	95%	95%	95%	96%	96%	96%	96%	96%	96%	100%	104%
	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	
AECO	8.47																
2006																	
2007	6.16	6.81	6.81	6.70	5.89	5.79	5.82	5.86	5.88	5.87	5.89	5.83	6.16	6.41			
2008	5.82	6.43	6.43	6.33	5.56	5.47	5.50	5.53	5.56	5.55	5.57	5.82	6.06				
2009	5.30	5.86	5.86	5.77	5.07	4.98	5.01	5.04	5.07	5.06	5.08	5.31	5.52				
2010	5.13	5.67	5.67	5.59	4.91	4.82	4.85	4.88	4.90	4.89	4.91	5.14	5.35				
2011	5.13	5.67	5.67	5.59	4.91	4.82	4.85	4.88	4.90	4.89	4.91	5.14	5.35				
2012	5.30	5.86	5.86	5.77	5.07	4.98	5.01	5.04	5.07	5.06	5.08	5.31	5.52				
2013	5.47	6.05	6.05	5.96	5.23	5.14	5.17	5.20	5.23	5.22	5.24	5.48	5.70				
2014	5.65	6.24	6.24	6.15	5.40	5.31	5.34	5.37	5.39	5.38	5.40	5.65	5.88				
2015	5.77	6.38	6.38	6.29	5.52	5.43	5.46	5.49	5.51	5.50	5.53	5.78	6.01				
2016	6.12	6.76	6.76	6.66	5.85	5.75	5.78	5.81	5.84	5.83	5.85	6.12	6.37				
2017	6.59	7.28	7.28	7.17	6.30	6.19	6.23	6.26	6.29	6.30	6.30	6.59	6.86				
2018	6.93	7.66	7.66	7.54	6.62	6.51	6.55	6.59	6.62	6.61	6.63	6.93	7.22				
2019	7.27	8.04	8.04	7.92	6.95	6.83	6.87	6.91	6.94	6.93	6.96	7.27	7.57				
2020	7.61	8.41	8.42	8.29	7.28	7.15	7.20	7.24	7.27	7.26	7.29	7.62	7.93				
2021	7.78	8.60	8.61	8.47	7.44	7.31	7.36	7.40	7.43	7.42	7.45	7.79	8.11				
2022	7.95	8.79	8.80	8.66	7.61	7.48	7.52	7.56	7.60	7.58	7.61	7.96	8.28				
2023	8.13	8.99	8.99	8.85	7.77	7.64	7.68	7.73	7.76	7.75	7.78	8.13	8.47				
2024	8.31	9.18	9.18	9.04	7.94	7.81	7.85	7.90	7.93	7.92	7.95	8.31	8.65				
2025	8.48	9.38	9.38	9.24	8.11	7.97	8.02	8.07	8.10	8.09	8.12						

Appendix 6.1
Mid Price Case

	Sumas	January	February	March	April	96%	May	94%	June	95%	July	95%	August	96%	September	October	95%	September	October	96%	November	December	100%	104%
2006	8.56																							
2007	6.22	6.88	6.88	6.78	5.95	5.85	5.88	5.92	5.94	5.93	5.93	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	6.23	6.48		
2008	5.88	6.50	6.50	6.40	5.62	5.52	5.56	5.59	5.61	5.60	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.88	6.12		
2009	5.36	5.92	5.93	5.83	5.12	5.04	5.07	5.09	5.12	5.11	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.36	5.58		
2010	5.19	5.73	5.73	5.65	4.96	4.87	4.90	4.93	4.95	4.94	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	5.19	5.40		
2011	5.19	5.73	5.73	5.65	4.96	4.87	4.90	4.93	4.95	4.94	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	5.19	5.40		
2012	5.36	5.92	5.93	5.83	5.12	5.04	5.07	5.09	5.12	5.11	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.36	5.58		
2013	5.53	6.11	6.12	6.02	5.29	5.20	5.23	5.26	5.28	5.27	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.53	5.76		
2014	5.70	6.31	6.31	6.21	5.45	5.36	5.39	5.42	5.45	5.44	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.71	5.94		
2015	5.83	6.45	6.45	6.35	5.58	5.48	5.51	5.55	5.57	5.56	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.84	6.08		
2016	6.18	6.83	6.83	6.73	5.91	5.81	5.84	5.88	5.90	5.89	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	6.18	6.44		
2017	6.66	7.36	7.36	7.25	6.36	6.26	6.29	6.33	6.36	6.35	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.66	6.93		
2018	7.00	7.74	7.74	7.62	6.69	6.58	6.62	6.66	6.69	6.67	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	7.01	7.29		
2019	7.35	8.12	8.12	8.00	7.02	6.90	6.94	6.99	7.02	7.00	7.03	7.03	7.03	7.03	7.03	7.03	7.03	7.03	7.03	7.03	7.35	7.65		
2020	7.69	8.50	8.51	8.38	7.36	7.23	7.27	7.31	7.35	7.33	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.70	8.01		
2021	7.86	8.69	8.70	8.56	7.52	7.39	7.43	7.48	7.51	7.50	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.87	8.19		
2022	8.04	8.88	8.89	8.75	7.69	7.55	7.60	7.64	7.68	7.66	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	8.04	8.37		
2023	8.21	9.08	9.08	8.94	7.85	7.72	7.76	7.81	7.85	7.83	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	8.22	8.56		
2024	8.39	9.28	9.28	9.14	8.03	7.89	7.93	7.98	8.02	8.00	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.40	8.74		
2025	8.57	9.48	9.48	9.33	8.20	8.06	8.10	8.15	8.19	8.17	8.21	8.21	8.21	8.21	8.21	8.21	8.21	8.21	8.21	8.21				
	Rockies	January	February	March	April	96%	May	94%	June	95%	July	95%	August	96%	September	October	95%	September	October	96%	November	December	100%	104%
2006	8.49																							
2007	6.17	6.82	6.82	6.72	5.90	5.80	5.83	5.87	5.90	5.88	5.88	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	6.18	6.43		
2008	5.83	6.44	6.45	6.35	5.57	5.48	5.51	5.54	5.57	5.56	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.83	6.07		
2009	5.31	5.87	5.88	5.79	5.08	5.00	5.02	5.05	5.08	5.07	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.32	5.54		
2010	5.14	5.69	5.69	5.60	4.92	4.83	4.86	4.89	4.91	4.90	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	5.15	5.36		
2011	5.14	5.69	5.69	5.60	4.92	4.83	4.86	4.89	4.91	4.90	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	5.15	5.36		
2012	5.31	5.87	5.88	5.79	5.08	5.00	5.02	5.05	5.08	5.07	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.32	5.54		
2013	5.49	6.06	6.07	5.97	5.25	5.16	5.19	5.22	5.24	5.23	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.49	5.71		
2014	5.66	6.25	6.26	6.16	5.41	5.32	5.35	5.38	5.40	5.39	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.66	5.89		
2015	5.79	6.40	6.40	6.30	5.53	5.44	5.47	5.50	5.53	5.52	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.79	6.03		
2016	6.13	6.77	6.78	6.67	5.86	5.76	5.79	5.83	5.85	5.84	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	6.13	6.38		
2017	6.60	7.30	7.30	7.19	6.31	6.20	6.24	6.28	6.30	6.29	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.60	6.88		
2018	6.94	7.67	7.68	7.56	6.64	6.53	6.56	6.60	6.63	6.62	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.95	7.23		
2019	7.29	8.05	8.06	7.93	6.97	6.85	6.89	6.93	6.96	6.95	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	7.29	7.59		
2020	7.63	8.43	8.44	8.31	7.29	7.17	7.21	7.25	7.29	7.27	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.63	7.95		
2021	7.80	8.62	8.62	8.49	7.46	7.33	7.37	7.42	7.45	7.44	7.47	7.47	7.47	7.47	7.47	7.47	7.47	7.47	7.47	7.47	7.80	8.12		
2022	7.97	8.81	8.81	8.68	7.62	7.49	7.53	7.58	7.61	7.60	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.98	8.30		
2023	8.15	9.00	9.01	8.87	7.79	7.66	7.70	7.75	7.78	7.77	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	8.15	8.49		
2024	8.32	9.20	9.20	9.06	7.96	7.82	7.87	7.91	7.95	7.94	7.97	7.97	7.97	7.97	7.97	7.97	7.97	7.97	7.97	7.97	8.33	8.67		
2025	8.50	9.40	9.40	9.26	8.13	7.99	8.04	8.08	8.12	8.11	8.14	8.14	8.14	8.14	8.14	8.14	8.14	8.14	8.14	8.14				

Appendix 6.1
Low Price Case

	Nymex	AECO	Sumas	Rockies	Seasonal Shape
2006	5.08	4.35	4.39	4.36	January 111%
2007	4.80	4.10	4.15	4.11	February 111%
2008	4.53	3.88	3.92	3.88	March 109%
2009	4.28	3.66	3.70	3.67	April 96%
2010	4.04	3.45	3.49	3.46	May 94%
2011	4.07	3.48	3.52	3.49	June 95%
2012	4.10	3.50	3.54	3.51	July 95%
2013	4.13	3.53	3.57	3.54	August 96%
2014	4.15	3.55	3.59	3.56	September 95%
2015	4.18	3.58	3.62	3.59	October 96%
2016	4.33	3.71	3.75	3.72	November 100%
2017	4.49	3.84	3.88	3.85	December 104%
2018	4.65	3.98	4.02	3.99	
2019	4.82	4.12	4.17	4.13	
2020	5.00	4.27	4.32	4.28	
2021	5.16	4.41	4.46	4.42	
2022	5.32	4.55	4.60	4.56	
2023	5.49	4.70	4.75	4.71	
2024	5.67	4.85	4.90	4.86	
2025	5.85	5.00	5.06	5.01	
	111%	111%	109%	96%	94%
	January	February	March	April	May
AECO	4.35	4.54	4.47	3.92	3.86
2006	4.10	4.28	4.22	3.71	3.64
2007	3.88	4.04	4.05	3.98	3.50
2008	3.66	3.82	3.82	3.76	3.30
2009	3.45	3.85	3.85	3.79	3.33
2010	3.50	3.87	3.87	3.81	3.35
2011	3.53	3.90	3.90	3.84	3.37
2012	3.55	3.93	3.87	3.40	3.34
2013	3.58	3.96	3.96	3.42	3.36
2014	3.71	4.10	4.10	4.04	3.54
2015	3.84	4.25	4.25	4.18	3.67
2016	3.98	4.40	4.40	4.33	3.81
2017	4.12	4.56	4.56	4.49	3.94
2018	4.27	4.72	4.72	4.65	4.09
2019	4.41	4.87	4.88	4.80	4.22
2020	4.55	5.03	5.03	4.96	4.35
2021	4.70	5.19	5.19	5.11	4.49
2022	4.85	5.36	5.36	5.28	4.64
2023	5.00	5.53	5.53	5.45	4.78
2024					
2025					
	95%	95%	95%	95%	95%
	June	July	August	September	October
AECO	3.90	3.90	3.90	3.91	3.93
2006	3.68	3.68	3.70	3.69	3.71
2007	3.46	3.46	3.48	3.49	3.50
2008	3.25	3.27	3.28	3.30	3.29
2009	3.27	3.29	3.31	3.32	3.32
2010	3.30	3.32	3.33	3.34	3.34
2011	3.33	3.35	3.33	3.35	3.35
2012	3.35	3.37	3.33	3.35	3.35
2013	3.37	3.39	3.36	3.38	3.38
2014	3.39	3.41	3.39	3.40	3.40
2015	3.42	3.44	3.42	3.43	3.43
2016	3.50	3.52	3.54	3.53	3.55
2017	3.54	3.56	3.67	3.66	3.68
2018	3.58	3.60	3.76	3.78	3.79
2019	3.62	3.64	3.90	3.92	3.93
2020	3.66	3.68	4.17	4.19	4.21
2021	3.70	3.72	4.22	4.24	4.22
2022	3.74	3.76	4.28	4.30	4.31
2023	3.78	3.80	4.41	4.44	4.47
2024	3.82	3.84	4.44	4.47	4.48
2025	3.86	3.88	4.61	4.63	4.64
	96%	96%	96%	96%	96%
	September	October	November	December	
AECO	3.91	3.93	4.11	4.27	
2006	3.71	3.73	3.88	4.04	
2007	3.50	3.52	3.66	3.81	
2008	3.30	3.32	3.49	3.66	
2009	3.29	3.31	3.50	3.66	
2010	3.30	3.32	3.51	3.60	
2011	3.32	3.33	3.51	3.62	
2012	3.33	3.34	3.51	3.65	
2013	3.35	3.36	3.53	3.67	
2014	3.36	3.38	3.53	3.70	
2015	3.38	3.40	3.56	3.73	
2016	3.39	3.42	3.58	3.73	
2017	3.40	3.42	3.71	3.86	
2018	3.42	3.44	3.81	4.15	
2019	3.44	3.47	3.98	4.30	
2020	3.46	3.48	4.09	4.28	
2021	3.48	3.51	4.22	4.45	
2022	3.50	3.53	4.36	4.59	
2023	3.52	3.55	4.36	4.74	
2024	3.54	3.57	4.50	4.89	
2025	3.56	3.59	4.85	5.05	

Appendix 6.1
Low Price Case

		111%	111%	109%	109%	96%	94%	June	95%	July	95%	August	96%	September	October	96%	November	100%	104%	
	Sumas	January	February	March	April	May	June	94%	July	95%	August	96%	September	October	95%	September	October	96%	November	December
2006	4.39	4.58	4.59	4.52	3.97	3.90	3.92	3.94	3.96	3.95	3.97	3.97	3.97	3.97	3.97	3.97	3.97	4.39	4.57	
2007	4.15	4.33	4.33	4.26	3.74	3.68	3.70	3.72	3.74	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	4.15	4.32	
2008	3.92	4.09	4.09	4.03	3.54	3.48	3.49	3.52	3.53	3.53	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.92	4.08	
2009	3.70	3.86	3.86	3.80	3.34	3.28	3.30	3.32	3.33	3.33	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.70	3.85	
2010	3.49	3.89	3.89	3.83	3.36	3.30	3.32	3.34	3.36	3.36	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.49	3.64	
2011	3.52	3.91	3.91	3.85	3.39	3.33	3.35	3.37	3.38	3.38	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.52	3.66	
2012	3.54	3.94	3.94	3.88	3.41	3.35	3.37	3.39	3.41	3.43	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.54	3.69	
2013	3.57	3.97	3.97	3.91	3.43	3.37	3.39	3.41	3.43	3.45	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.57	3.71	
2014	3.59	4.00	4.00	3.94	3.46	3.40	3.42	3.44	3.45	3.45	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.59	3.74	
2015	3.62	4.14	4.14	4.08	3.58	3.52	3.54	3.56	3.58	3.58	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.62	3.77	
2016	3.75	4.29	4.29	4.23	3.71	3.65	3.67	3.69	3.71	3.70	3.72	3.72	3.72	3.72	3.72	3.72	3.72	3.88	4.04	
2017	3.88	4.45	4.45	4.38	3.85	3.78	3.80	3.82	3.84	3.84	3.85	3.85	3.85	3.85	3.85	3.85	3.85	4.02	4.19	
2018	4.02	4.61	4.61	4.54	3.98	3.92	3.94	3.96	3.98	3.98	3.99	3.99	3.99	3.99	3.99	3.99	3.99	4.17	4.34	
2019	4.17	4.77	4.77	4.70	4.13	4.06	4.08	4.10	4.12	4.12	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.32	4.50	
2020	4.32	4.93	4.93	4.85	4.26	4.19	4.21	4.24	4.26	4.26	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.46	4.64	
2021	4.46	5.08	5.09	5.01	4.40	4.32	4.35	4.37	4.39	4.38	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.60	4.79	
2022	4.60	5.25	5.25	5.17	4.54	4.46	4.49	4.51	4.53	4.53	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.75	4.94	
2023	4.75	5.41	5.42	5.33	4.68	4.60	4.63	4.66	4.68	4.68	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.90	5.10	
2024	4.90	5.59	5.59	5.50	4.83	4.75	4.78	4.81	4.83	4.83	4.84	4.84	4.84	4.84	4.84	4.84	4.84			
2025	5.06																			
	Rockies	January	February	March	April	May	June	94%	July	95%	August	96%	September	October	95%	September	October	96%	November	December
2006	4.36	4.55	4.55	4.48	3.93	3.87	3.89	3.91	3.93	3.92	3.94	3.94	3.94	3.94	3.94	3.94	3.94	4.36	4.54	
2007	4.11	4.29	4.29	4.23	3.71	3.65	3.67	3.69	3.71	3.70	3.72	3.72	3.72	3.72	3.72	3.72	3.72	4.12	4.28	
2008	3.88	4.05	4.05	3.99	3.51	3.45	3.47	3.49	3.50	3.50	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.89	4.05	
2009	3.67	3.83	3.83	3.77	3.31	3.25	3.27	3.29	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.67	3.82	
2010	3.46	3.96	3.96	3.80	3.33	3.28	3.30	3.31	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.46	3.61	
2011	3.49	3.86	3.86	3.80	3.33	3.28	3.30	3.32	3.34	3.34	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.49	3.63	
2012	3.51	3.88	3.88	3.82	3.36	3.30	3.32	3.34	3.36	3.36	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.51	3.66	
2013	3.54	3.91	3.91	3.85	3.38	3.32	3.34	3.36	3.36	3.36	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.54	3.68	
2014	3.56	3.94	3.94	3.88	3.40	3.35	3.37	3.39	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.56	3.71	
2015	3.59	3.97	3.97	3.90	3.43	3.37	3.39	3.41	3.43	3.43	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.59	3.74	
2016	3.72	4.11	4.11	4.05	3.55	3.49	3.51	3.53	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.72	3.87	
2017	3.85	4.26	4.26	4.19	3.68	3.62	3.64	3.66	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.85	4.01	
2018	3.99	4.41	4.41	4.34	3.81	3.75	3.77	3.79	3.81	3.81	3.82	3.82	3.82	3.82	3.82	3.82	3.82	3.99	4.15	
2019	4.13	4.57	4.57	4.50	3.95	3.88	3.91	3.93	3.95	3.95	3.96	3.96	3.96	3.96	3.96	3.96	3.96	4.14	4.30	
2020	4.28	4.73	4.73	4.66	4.09	4.02	4.05	4.07	4.09	4.09	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.28	4.46	
2021	4.42	4.89	4.89	4.81	4.23	4.15	4.18	4.20	4.22	4.22	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.42	4.60	
2022	4.56	5.04	5.04	4.97	4.36	4.29	4.31	4.34	4.36	4.36	4.37	4.37	4.37	4.37	4.37	4.37	4.37	4.56	4.75	
2023	4.71	5.20	5.21	5.13	4.50	4.42	4.45	4.48	4.50	4.50	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.71	4.90	
2024	4.86	5.37	5.37	5.29	4.65	4.57	4.59	4.62	4.64	4.64	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.86	5.06	
2025	5.01	5.54	5.54	5.46	4.79	4.71	4.74	4.77	4.79	4.79	4.79	4.79	4.79	4.79	4.79	4.79	4.79			

Appendix 6.1
High Price Case

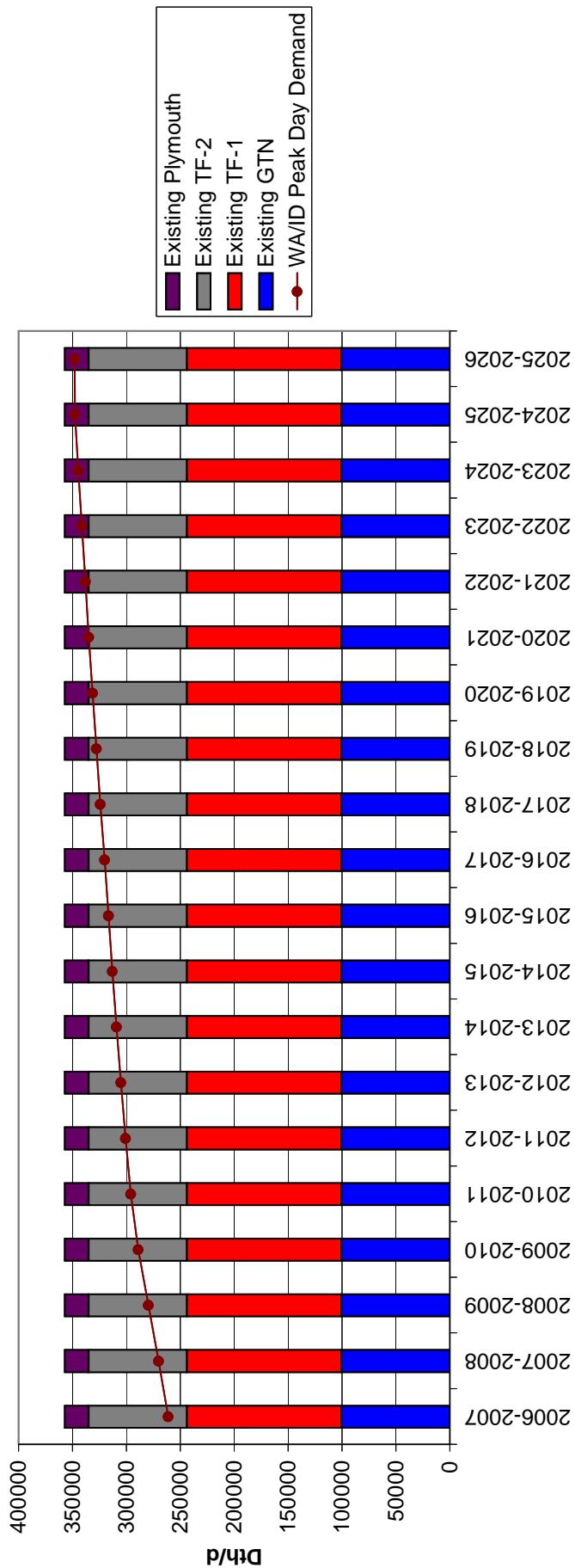
	Nymex	AECO	Sumas	Rockies	85.7%
2006	11.00	9.41	9.51	9.43	
2007	9.65	8.26	8.34	8.28	
2008	8.49	7.26	7.34	7.28	
2009	7.64	6.53	6.60	6.55	
2010	7.36	6.29	6.36	6.31	
2011	7.48	6.40	6.47	6.42	
2012	7.66	6.56	6.62	6.57	
2013	7.86	6.72	6.79	6.74	
2014	8.08	6.91	6.99	6.93	
2015	8.30	7.10	7.18	7.12	
2016	8.52	7.28	7.36	7.30	
2017	8.72	7.46	7.54	7.48	
2018	8.93	7.64	7.72	7.66	
2019	9.14	7.82	7.90	7.84	
2020	9.35	7.99	8.08	8.01	
2021	9.56	8.17	8.26	8.19	
2022	9.77	8.35	8.44	8.37	
2023	9.98	8.54	8.63	8.56	
2024	10.20	8.72	8.82	8.74	
2025	10.42	8.91	9.00	8.93	
AECO	111%	111%	109%	109%	
2006	9.41	January	February	March	April
2007	8.26	9.13	9.13	8.99	7.90
2008	7.26	8.03	8.03	7.91	6.95
2009	6.53	7.22	7.23	7.12	6.25
2010	6.29	6.96	6.96	6.85	6.02
2011	6.40	7.08	7.08	6.97	6.12
2012	6.56	7.25	7.25	7.14	6.27
2013	6.72	7.43	7.43	7.32	6.43
2014	6.91	7.64	7.64	7.53	6.61
2015	7.10	7.85	7.85	7.73	6.79
2016	7.28	8.05	8.05	7.93	6.96
2017	7.46	8.25	8.25	8.12	7.13
2018	7.64	8.45	8.45	8.32	7.31
2019	7.82	8.64	8.65	8.51	7.48
2020	7.99	8.84	8.84	8.70	7.64
2021	8.17	9.03	9.04	8.90	7.82
2022	8.35	9.23	9.24	9.09	7.99
2023	8.54	9.44	9.44	9.29	8.16
2024	8.72	9.64	9.65	9.50	8.34
2025	8.91	9.85	9.85	9.70	8.52
	Seasonal				Shape
	January				111%
	February				111%
	March				109%
	April				96%
	May				94%
	June				95%
	July				95%
	August				96%
	September				95%
	October				96%
	November				100%
	December				104%

Appendix 6.1

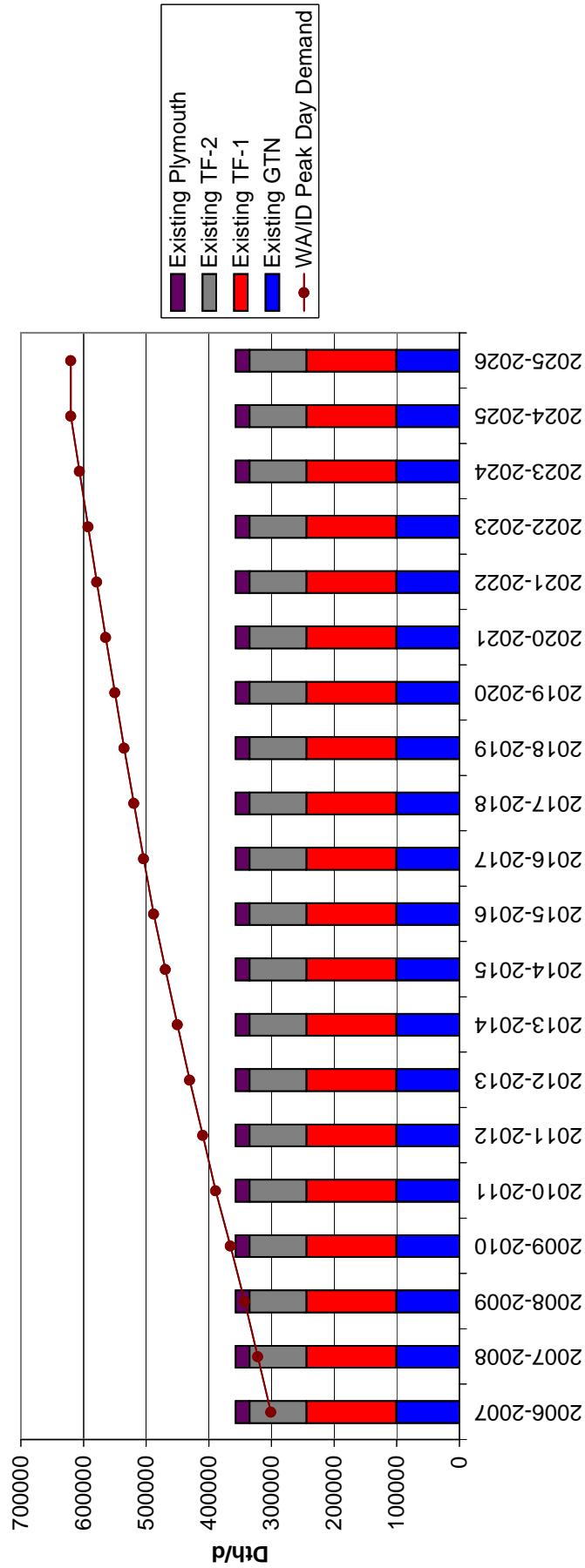
Existing Resource Comparisons

Appendix 6.2

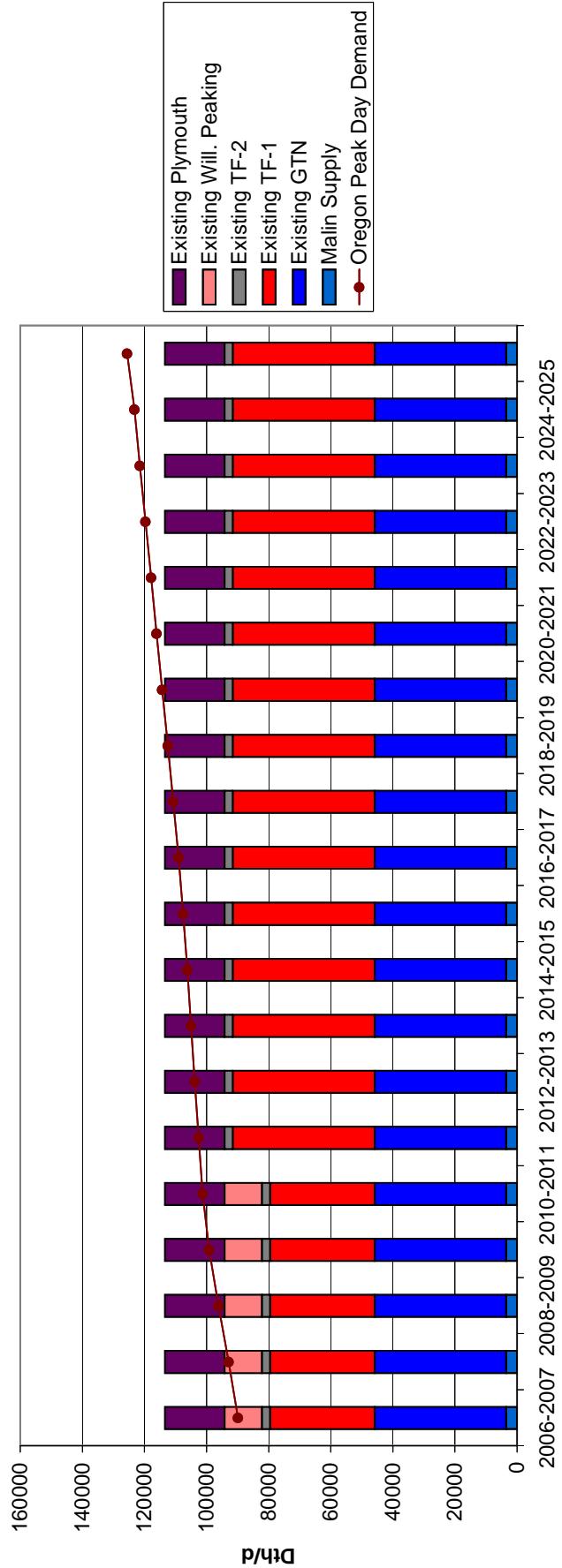
**Appendix 6.2 - WAID Existing Resources v.s.
Peak Day Demand (Net of DSM Savings)
Low Demand Case**



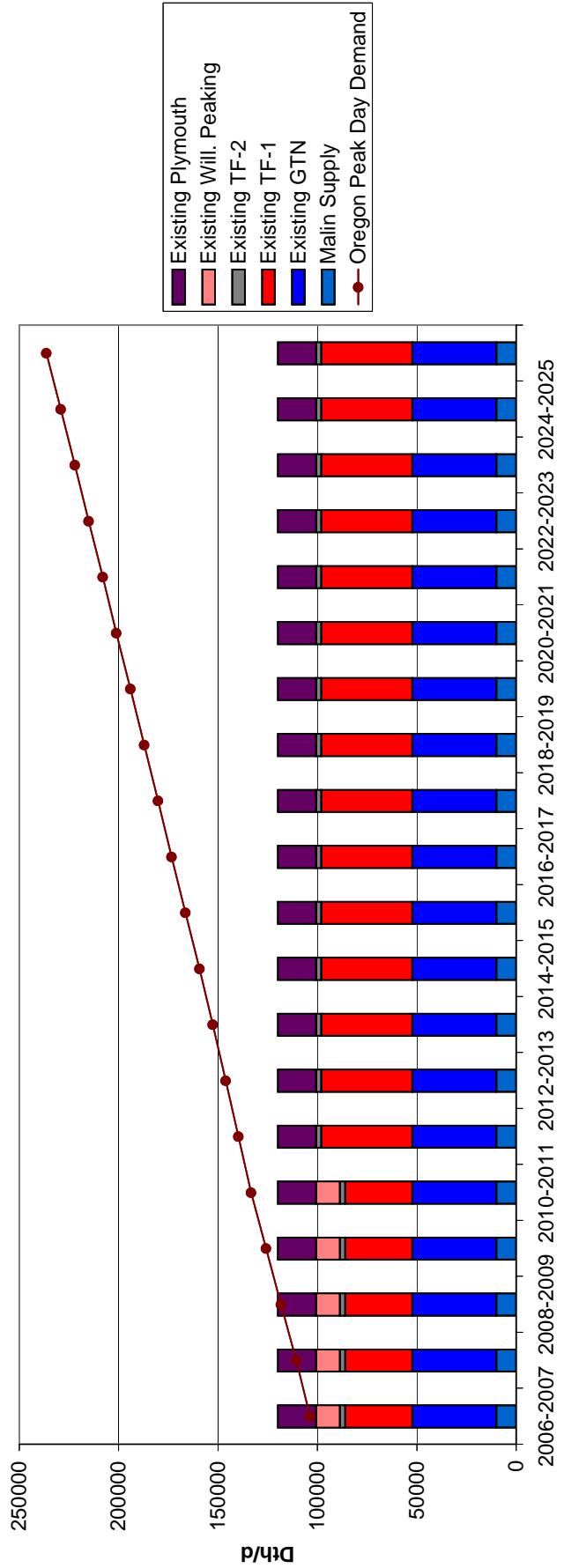
**Appendix 6.2 - WA/ID Existing Resources vs.
Peak Day Demand (Net of DSM Savings)
High Demand Case**



**Appendix 6.2 - Oregon Existing Resources vs.
Peak Day Demand (Net of DSM Savings)
Low Demand Case**



**Appendix 6.2 - Oregon Existing Resources vs.
Peak Day Demand (Net of DSM Savings)
High Demand Case**



Served and Unserved Demand

Appendix 6.3

Appendix 6.3 - Peak Day Demand - Served and Unserved (MDth/d)
Before Resource Additions & Net of DSM Savings

Case	Gas Year	La Grande Served	La Grande Unserved	La Grande Total	WA/ID Served	WA/ID Unserved	WA/ID Total
2	2006-2007	8.39	-	8.39	274.06	-	274.06
2	2007-2008	8.91	-	8.91	295.96	-	295.96
2	2008-2009	9.18	-	9.18	310.11	-	310.11
2	2009-2010	9.50	-	9.50	326.79	-	326.79
2	2010-2011	9.75	-	9.75	341.37	-	341.37
2	2011-2012	9.96	-	9.96	354.71	-	354.71
2	2012-2013	10.12	-	10.12	357.29	9.07	366.37
2	2013-2014	10.25	0.03	10.28	373.80	3.58	377.38
2	2014-2015	10.25	0.18	10.43	373.05	14.83	387.88
2	2015-2016	10.25	0.34	10.60	386.99	11.80	398.80
2	2016-2017	10.25	0.49	10.74	387.37	19.75	407.12
2	2017-2018	10.25	0.60	10.85	386.46	27.61	414.07
2	2018-2019	10.25	0.76	11.01	385.41	37.08	422.49
2	2019-2020	10.25	0.91	11.16	384.34	46.28	430.62
2	2020-2021	10.25	1.06	11.32	383.37	54.93	438.30
2	2021-2022	10.25	1.22	11.47	382.84	62.74	445.58
2	2022-2023	10.25	1.38	11.63	382.84	70.30	453.14
2	2023-2024	10.25	1.54	11.80	382.84	77.55	460.39
2	2024-2025	10.25	1.71	11.96	382.84	85.16	468.00
2	2025-2026	10.25	1.74	11.99	382.84	85.33	468.18

Case	Gas Year	La Grande Served	La Grande Unserved	La Grande Total	WA/ID Served	WA/ID Unserved	WA/ID Total
6	2006-2007	8.04	-	8.04	261.10	-	261.10
6	2007-2008	8.24	-	8.24	270.14	-	270.14
6	2008-2009	8.44	-	8.44	279.61	-	279.61
6	2009-2010	8.63	-	8.63	288.93	-	288.93
6	2010-2011	8.73	-	8.73	295.94	-	295.94
6	2011-2012	8.78	-	8.78	300.75	-	300.75
6	2012-2013	8.82	-	8.82	305.17	-	305.17
6	2013-2014	8.85	-	8.85	309.26	-	309.26
6	2014-2015	8.87	-	8.87	313.01	-	313.01
6	2015-2016	8.89	-	8.89	316.48	-	316.48
6	2016-2017	8.95	-	8.95	320.23	-	320.23
6	2017-2018	9.02	-	9.02	324.19	-	324.19
6	2018-2019	9.09	-	9.09	327.90	-	327.90
6	2019-2020	9.16	-	9.16	331.35	-	331.35
6	2020-2021	9.22	-	9.22	334.95	-	334.95
6	2021-2022	9.28	-	9.28	338.13	-	338.13
6	2022-2023	9.35	-	9.35	341.36	-	341.36
6	2023-2024	9.42	-	9.42	344.58	-	344.58
6	2024-2025	9.48	-	9.48	347.68	-	347.68
6	2025-2026	9.51	-	9.51	347.86	-	347.86

Appendix 6.3 - Peak Day Demand - Served and Unserved (MDth/d)
Before Resource Additions & Net of DSM Savings

Case	Gas Year	La Grande Served	La Grande Unserved	La Grande Total	WA/ID Served	WA/ID Unserved	WA/ID Total
7	2006-2007	9.17	-	9.17	301.11	-	301.11
7	2007-2008	9.57	-	9.57	321.75	-	321.75
7	2008-2009	9.97	-	9.97	343.08	-	343.08
7	2009-2010	10.25	0.12	10.38	365.80	-	365.80
7	2010-2011	10.25	0.54	10.79	386.30	2.84	389.14
7	2011-2012	10.25	0.87	11.12	385.77	24.12	409.89
7	2012-2013	10.25	1.21	11.47	399.44	31.12	430.57
7	2013-2014	10.25	1.54	11.79	397.72	52.61	450.33
7	2014-2015	10.25	1.85	12.10	396.06	73.11	469.17
7	2015-2016	10.25	2.17	12.43	396.06	92.01	488.07
7	2016-2017	10.25	2.47	12.72	413.98	89.89	503.87
7	2017-2018	10.25	2.78	13.03	395.12	124.52	519.64
7	2018-2019	10.25	3.08	13.33	373.12	162.14	535.26
7	2019-2020	10.25	3.39	13.64	373.12	176.88	550.00
7	2020-2021	10.25	3.69	13.94	355.20	209.35	564.55
7	2021-2022	10.25	3.99	14.24	339.83	238.93	578.77
7	2022-2023	10.25	4.30	14.55	338.79	253.76	592.55
7	2023-2024	10.25	4.61	14.86	321.23	285.07	606.30
7	2024-2025	10.25	4.92	15.17	321.23	298.96	620.20
7	2025-2026	10.25	4.94	15.20	321.23	299.14	620.37

Appendix 6.3 - Peak Day Demand - Served and Unserved (MDth/d)
Before Resource Additions & Net of DSM Savings

Case	Gas Year	Klamath Falls Served	Klamath Falls Unserved	Klamath Falls Total	Medford/Roseburg Served	Medford/Roseburg Unserved	Medford/Roseburg Total
2	2006-2007	12.82	-	12.82	73.18	-	73.18
2	2007-2008	13.66	-	13.66	79.19	-	79.19
2	2008-2009	14.18	-	14.18	83.43	-	83.43
2	2009-2010	14.77	-	14.77	88.05	-	88.05
2	2010-2011	15.03	0.22	15.25	87.24	4.64	91.88
2	2011-2012	15.03	0.56	15.59	87.24	8.08	95.32
2	2012-2013	15.03	0.84	15.87	87.24	11.13	98.37
2	2013-2014	15.03	1.13	16.16	87.24	14.27	101.51
2	2014-2015	15.03	1.45	16.48	87.24	17.47	104.71
2	2015-2016	15.03	1.79	16.82	87.24	21.00	108.24
2	2016-2017	15.03	2.14	17.18	87.24	24.30	111.54
2	2017-2018	15.03	2.46	17.49	87.24	27.17	114.41
2	2018-2019	15.03	2.83	17.86	87.24	30.51	117.75
2	2019-2020	15.03	3.21	18.25	87.24	33.93	121.17
2	2020-2021	15.03	3.60	18.63	87.24	37.25	124.49
2	2021-2022	15.03	3.96	18.99	87.24	40.57	127.81
2	2022-2023	15.03	4.34	19.37	87.24	44.01	131.25
2	2023-2024	15.03	4.76	19.79	87.24	47.40	134.64
2	2024-2025	15.03	5.16	20.20	87.24	50.81	138.05
2	2025-2026	15.03	5.69	20.72	87.24	54.85	142.09

Case	Gas Year	Klamath Falls Served	Klamath Falls Unserved	Klamath Falls Total	Medford/Roseburg Served	Medford/Roseburg Unserved	Medford/Roseburg Total
6	2006-2007	12.25	-	12.25	69.58	-	69.58
6	2007-2008	12.57	-	12.57	72.07	-	72.07
6	2008-2009	12.91	-	12.91	74.77	-	74.77
6	2009-2010	13.23	-	13.23	77.30	-	77.30
6	2010-2011	13.44	-	13.44	79.09	-	79.09
6	2011-2012	13.51	-	13.51	80.28	-	80.28
6	2012-2013	13.56	-	13.56	81.39	-	81.39
6	2013-2014	13.62	-	13.62	82.54	-	82.54
6	2014-2015	13.68	-	13.68	83.66	-	83.66
6	2015-2016	13.76	-	13.76	84.87	-	84.87
6	2016-2017	13.92	-	13.92	86.17	-	86.17
6	2017-2018	14.08	-	14.08	87.24	0.43	87.67
6	2018-2019	14.24	-	14.24	87.24	1.94	89.18
6	2019-2020	14.43	-	14.43	87.24	3.51	90.75
6	2020-2021	14.60	-	14.60	87.24	5.06	92.30
6	2021-2022	14.75	-	14.75	87.24	6.56	93.80
6	2022-2023	14.94	-	14.94	87.24	8.12	95.36
6	2023-2024	15.03	0.08	15.11	87.24	9.68	96.92
6	2024-2025	15.03	0.27	15.30	87.24	11.21	98.45
6	2025-2026	15.03	0.55	15.59	87.24	13.25	100.49

Appendix 6.3 - Peak Day Demand - Served and Unserved (MDth/d)
Before Resource Additions & Net of DSM Savings

Case	Gas Year	Klamath Falls Served	Klamath Falls Unserved	Klamath Falls Total	Medford/Roseburg Served	Medford/Roseburg Unserved	Medford/Roseburg Total
7	2006-2007	14.01	-	14.01	80.50	-	80.50
7	2007-2008	14.74	-	14.74	86.35	-	86.35
7	2008-2009	15.03	0.51	15.55	92.81	-	92.81
7	2009-2010	15.03	1.31	16.35	99.16	-	99.16
7	2010-2011	15.03	2.10	17.13	87.24	18.21	105.45
7	2011-2012	15.03	2.67	17.70	87.24	23.63	110.87
7	2012-2013	15.03	3.23	18.26	87.24	29.10	116.34
7	2013-2014	15.03	3.82	18.85	87.24	34.74	121.98
7	2014-2015	15.03	4.44	19.47	87.24	40.52	127.76
7	2015-2016	15.03	5.10	20.14	87.24	46.67	133.91
7	2016-2017	15.03	5.79	20.82	87.24	52.65	139.89
7	2017-2018	15.03	6.45	21.48	87.24	58.46	145.70
7	2018-2019	15.03	7.14	22.17	87.24	64.37	151.61
7	2019-2020	15.03	7.84	22.87	87.24	70.38	157.62
7	2020-2021	15.03	8.55	23.59	87.24	76.41	163.65
7	2021-2022	15.03	9.21	24.24	87.24	82.24	169.48
7	2022-2023	15.03	9.91	24.94	87.24	88.33	175.57
7	2023-2024	15.03	10.63	25.67	87.24	94.33	181.57
7	2024-2025	15.03	11.36	26.39	87.24	100.29	187.53
7	2025-2026	15.03	12.17	27.21	87.24	106.71	193.95

Supply-Side Resources

Appendix 6.4

Appendix 6.4 - Supply-Side Resources
Potential Additional Supply Resources

WAID	Facility/Location	Annual (Dth)	Daily (Dth) Delivery	Year Avail. 3/	Lead Time	Investment Cost \$ (000's)	Variable Cost \$ (000's)	Notes
AECO Supply	Varies	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Sumas/Station 2	Varies	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Rockies	Varies	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
GIN/Stantfield	Varies	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
JP Storage Recall 1/	2,268,000	63,000	2	2 year notice	n/a	Commodity	JP release to Terens. Does not include transport and therefore does not meet peak-day needs	
JP - Avista Energy 1/	2,589,578	104,000	3	1 year notice	Cost-based figure	8,000	none	Acquisition of JP capacity held by Avista Energy. Does not include transport and therefore does not meet peak-day needs
JP Expansion 1/	n/a	100,000	3	>2 year	n/a	10,000	Commodity + \$1.5MM/yr	Expansion of JP facility delivery capability. Does not include transport and therefore does not meet peak-day needs
WAID Satellite LNG #1	90,000	15,000	5	4 years	n/a	10,000	Commodity + \$1.5MM/yr	Variable costs equal the liquefaction charges and transportation of the LNG
WAID Satellite LNG #2	90,000	15,000	10	4 years	n/a	10,000	Commodity + \$1.5MM/yr	Variable costs equal the liquefaction charges and transportation of the LNG
Spokane Company Owned LNG	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Option is economically unfeasible given load size vs. facility requirements
Oregon								
AECO Supply	Varies	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Sumas/Station 2 Supply	Varies	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Rockies Supply	Varies	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Main Supply	Varies	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
KFalls Lateral Purchase 2/	0	0	0	1	<1 year	3,000	none	Purchase of lateral at book value subject to additional terms and conditions
KFalls Lateral Enhancement 2/	2,190,000	6,000	1	<1 year	0	Commodity	In conjunction with Klamath item above. By operating the lateral as a transmission system, capacity would be added	
La Grande Dist. Enhance #1	1,095,000	3,000	2	2 years	3,000	Commodity	High-pressure distribution system looping. Would allow additional NWP deliveries	
La Grande Dist. Enhance #2	365,000	1,000	5	3 years	1,000	Commodity	High-pressure distribution system looping. Would allow additional NWP deliveries	
La Grande Dist. Enhance #3	365,000	1,000	8	4 years	1,000	Commodity	High-pressure distribution system looping. Would allow additional NWP deliveries	
Medford Satellite LNG #1	90,000	15,000	5	4 years	10,000	Commodity + \$1.5MM/yr	Would enable existing Medford capacity to be redirected to Roseburg	
Medford Satellite LNG #2	90,000	15,000	10	5 years	10,000	Commodity + \$1.5MM/yr	Would enable existing Medford capacity to be redirected to Roseburg	
Roseburg Satellite LNG	90,000	15,000	5	6 years	10,000	Commodity + \$1.5MM/yr	Would enable existing Roseburg capacity to be redirected to Medford	
Klamath Falls Satellite LNG	25,000	5,000	5	7 years	8,000	Commodity + \$1.0MM/yr	Peak day facility located in Klamath Falls	
Med. Company Owned LNG	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Option is economically unfeasible given load size vs. facility requirements
JP - Avista Energy 1/	2,589,578	104,000	3	1 year notice	Cost-based figure	8,000	Commodity	Acquisition of JP capacity held by Avista Energy. Does not include transport and therefore does not meet peak-day needs
JP Expansion 1/	n/a	100,000	3	>2 year	n/a	8,000	none	Expansion of JP facility delivery capability. Does not include transport and therefore does not meet peak-day needs
Oregon LNG Facility/Coos Bay	n/a	Varies	Varies	5	3 years	none	Commodity	Option unlikely in PNW. Assumed to only occur in the very robust market/low price scenario. Spot purchases into GP Lateral

1/ Requires transportation for peak day needs

2/ Utilizes Main supply

3/ This column is intended to indicate the first year in which the resource is available. The resource is assumed to be available in each subsequent year until utilized

Appendix 6.4 - Supply-Side Resources

Potential Contract Demand Expansions/Additions

Appendix 6.5

WAID	Pipeline/ Facility	Identification	Daily (Dth) Capacity	Year 3/ Available	Lead Time	Capital Cost \$/000's)	Cost Dth 4/	Notes
NWP Zone 20 Spokane Area	NWP	NWP from GTN #1	22,000	2	2 years	4,700	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #2	25,000	5	2 years	5,000	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #3	25,000	8	2 years	5,000	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #1	40,000	2	2 years	10,000	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #2	40,000	5	2 years	10,000	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #3	40,000	8	2 years	10,000	NWP Rate	Expansion to facilitate additional GTN deliveries
TransCanada AECO to Stanfield #1	TC/GTN	AECO to Stanfield #1	22,000	2	<1 year	n/a	GTN/TC Rates	Existing available capacity from AECO to Stanfield. GTN capacity assumed to be winter only.
TransCanada AECO to WAID	TC/GTN	AECO to Stanfield #2	25,000	5	<1 year	n/a	GTN/TC Rates	Existing available capacity from AECO to Stanfield. GTN capacity assumed to be winter only.
TransCanada AECO to WAID	TC/GTN	AECO to Stanfield #3	25,000	8	<1 year	n/a	GTN/TC Rates	Existing available capacity from AECO to Stanfield. GTN capacity assumed to be winter only.
TransCanada AECO to WAID	TC/GTN	AECO to Stanfield #4	60,000	5	<1 year	n/a	GTN/TC Rates	Existing available capacity from AECO to Stanfield.
TransCanada AECO to WAID	TC/GTN	AECO to Stanfield #5	60,000	8	<1 year	n/a	GTN/TC Rates	Existing available capacity from AECO to Stanfield. GTN capacity assumed to be winter only.
TransCanada AECO to WAID	TC/GTN	AECO to Stanfield #6	60,000	8	<1 year	n/a	GTN/TC Rates	Existing available capacity from AECO to Stanfield. GTN capacity assumed to be winter only.
NWP Zone 11 & 20/1	NWP	NWP JP Transport Expansion #1	25,000	4	4 years	n/a	NWP Rate X 2.5	Transport Expansion for JP to WAID
NWP Zone 11 & 20/1	NWP	NWP JP Transport Expansion #2	50,000	4	4 years	n/a	NWP Rate X 2.5	Transport Expansion for JP to WAID
NWP Zone 11 & 20/1	NWP	NWP JP Transport Expansion #3	100,000	4	4 years	n/a	NWP Rate X 1.5	Transport Expansion for JP to WAID
NWP Zone 26/20/1	NWP	NWP Sumas to WAID #2	20,000	10	4 years	n/a	NWP Rate X 3.0	Transport Expansion for Sumas to WAID
NWP Zone 26/20/1	NWP	NWP Rocks to WAID #1	20,000	5	4 years	n/a	NWP Rate X 3.0	Transport Expansion for Rocks to WAID
NWP Zone 24 & 20/1	NWP	NWP Rocks to WAID #2	20,000	10	4 years	n/a	NWP Rate X 3.0	Transport Expansion for Rocks to WAID
Oregon								
Medford Lateral Expansion 2/6/	GTN	GTN Med. Lateral Expansion #1	20,000	2	2 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Allows NWP cap. to be redirected to Roseburg
Medford Lateral Expansion 2/6/	GTN	GTN Med. Lateral Expansion #2	20,000	5	2 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Allows NWP cap. to be redirected to Roseburg
Medford Lateral Expansion 2/6/	GTN	GTN Med. Lateral Expansion #3	20,000	8	2 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Allows NWP cap. to be redirected to Roseburg
Klamath Capacity 2/	GTN	GTN Med. Lateral Expansion #5	10,000	8	2 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Klamath delivers only
NWP Zone 26/16/12/9.8.1/	NWP	NWP Sumas to Medford Exp. #1	20,000	5	4 years	n/a	NWP Rate X 4.0	Transport Expansion for Sumas to Medford
NWP Zone 24/26/16/12/9.8.1/	NWP	NWP Rocks to Medford Exp. #1	20,000	4	4 years	n/a	NWP Rate X 5.0	Transport Expansion for Rocks to Medford
California Storage 5/	PG&E	PG&E CG1 Storage Service #1	10,000	2	<1 year	n/a	NWP Rate X 3.5	Transport Expansion for JP to Medford
California Storage 5/	PG&E	PG&E CG1 Storage Service #2	10,000	5	<1 year	n/a	\$55+ Commodity	Assumes 1,000,000 inventory. Current contracting practices are one-year terms.
California Storage Transport	CGT/GTN	CA Storage Backhaul #1	10,000	2	<1 year	n/a	CG1 GTN Rates	Current PG&E CG1 GTN mainline and Medford rates. Combined with CA storage above
California Storage Transport	CGT/GTN	CA Storage Backhaul #2	10,000	5	<1 year	n/a	CG1 GTN Rates	Current PG&E CG1 GTN mainline and Medford rates. Combined with CA storage above

1) Assumes additional participation in expansion by other customers

2) Utilizes Main supply

3) This column is intended to indicate the first year in which the resource is available. The resource is assumed to be available in each subsequent year until utilized

4) All existing rates escalated at initiation rate

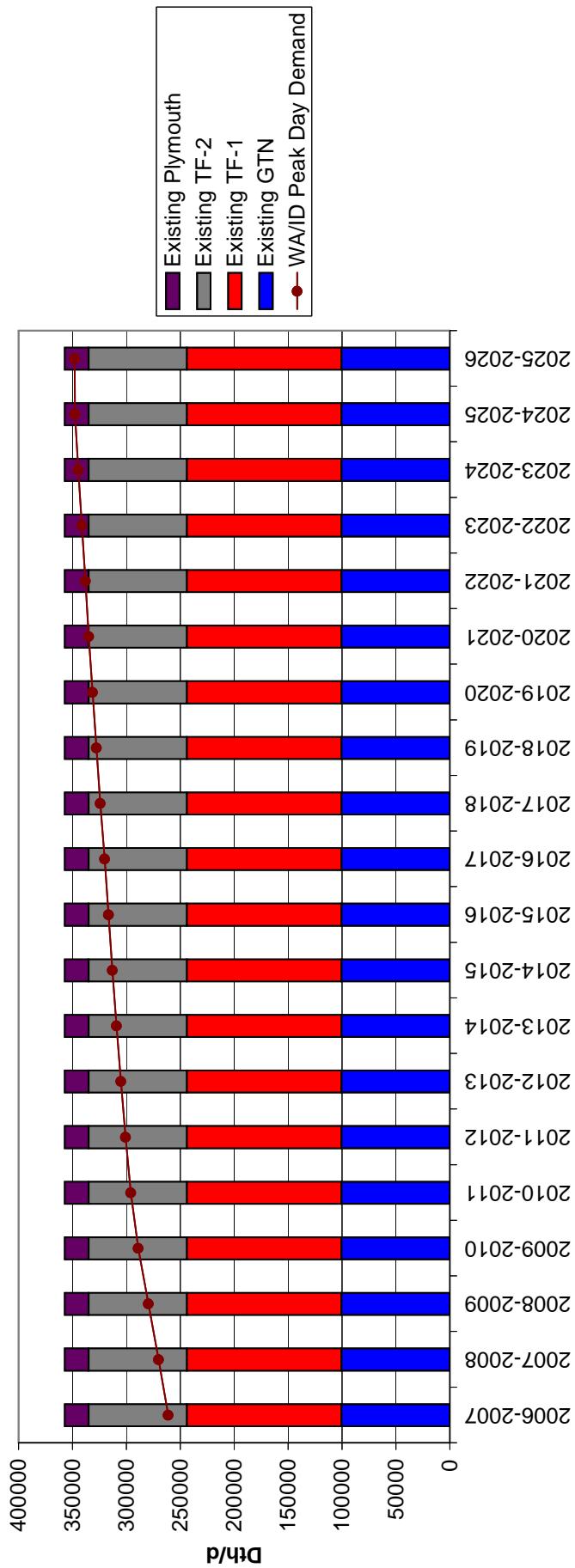
5) Requires re-delivery service via backhauls

6) Requires a distribution system enhancement in Medford area to facilitate expansion deliveries. Avista anticipates this enhancement being completed in 2007 and is driven by Integrity Management related activity in the Medford area. The approximate capital cost of this project is \$11MM and will likely be incurred whether or not a GTN Medford lateral expansion is selected by the SENDOUT model for resource additions.

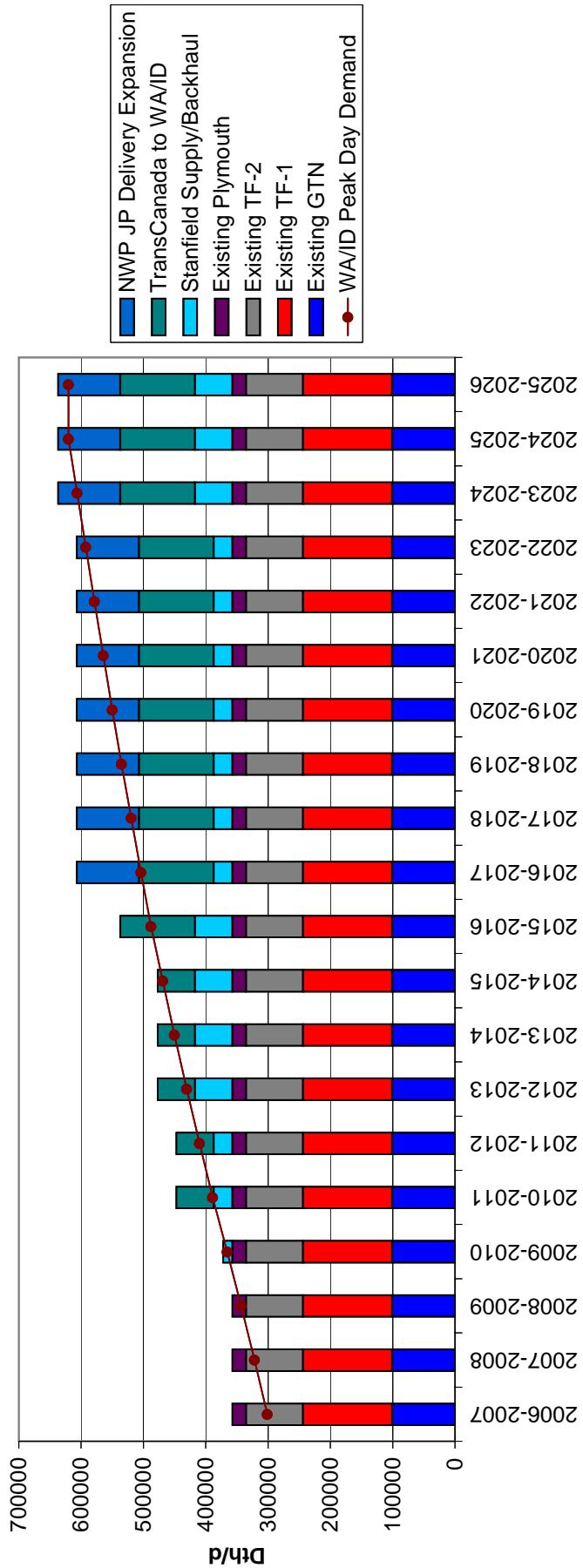
Future Resource Comparisons

Appendix 6.5

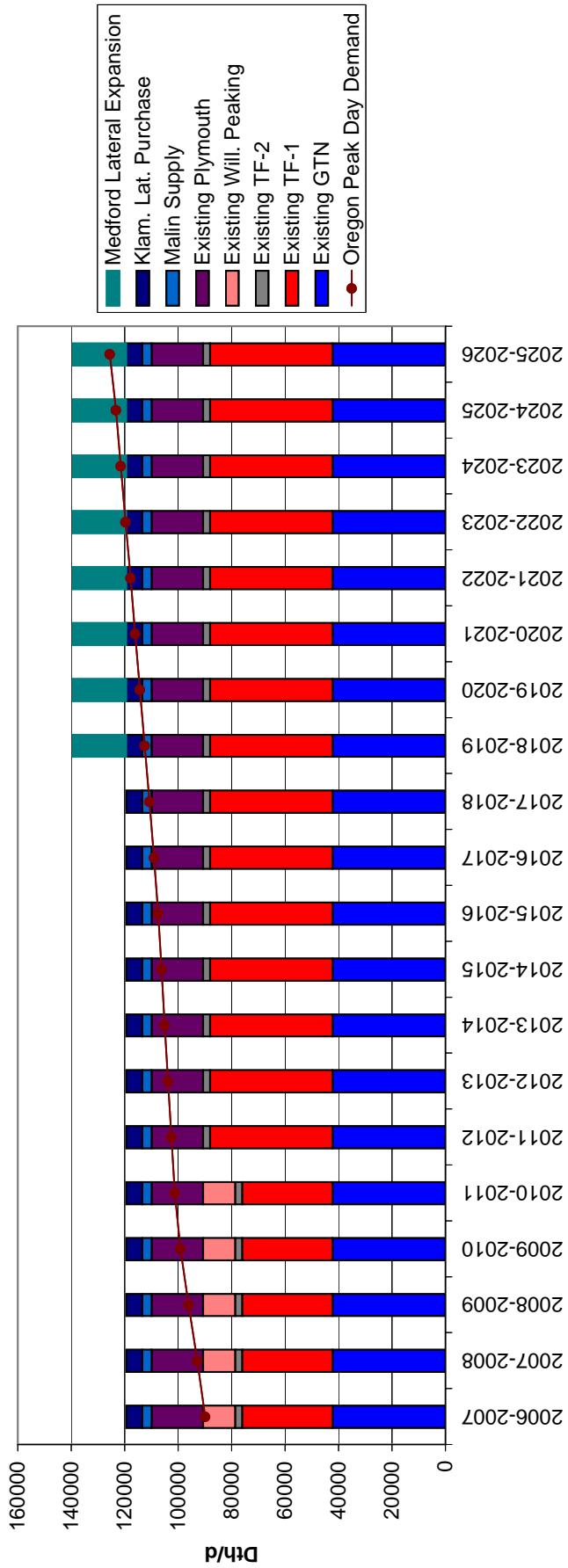
**Appendix 6.5 - WAID Existing Resources vS.
Peak Day Demand (Net of DSM Savings)
Low Demand Case**



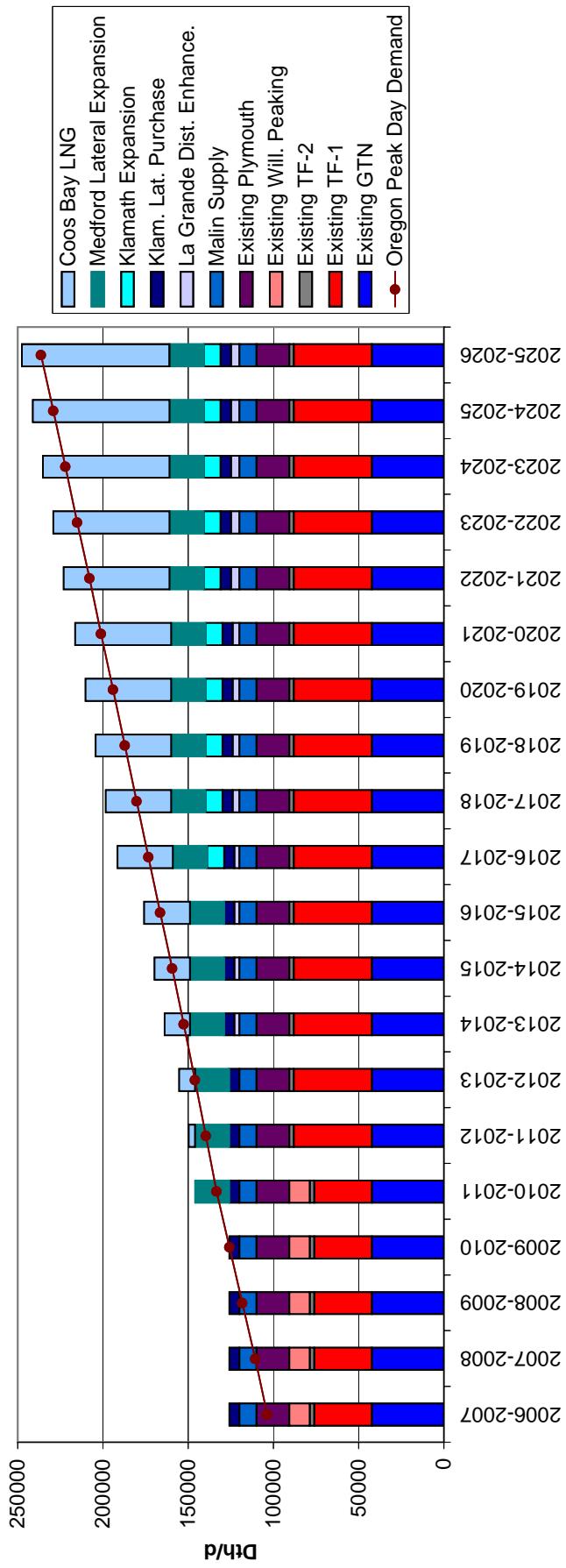
Appendix 6.5 - WA/ID Existing & Least Cost Resources vs. Peak Day Demand (Net of DSM Savings) - High Demand Case



Appendix 6.5 - Oregon Existing & Least Cost Resources vs. Peak Day Demand (Net of DSM Savings) - Low Demand Case



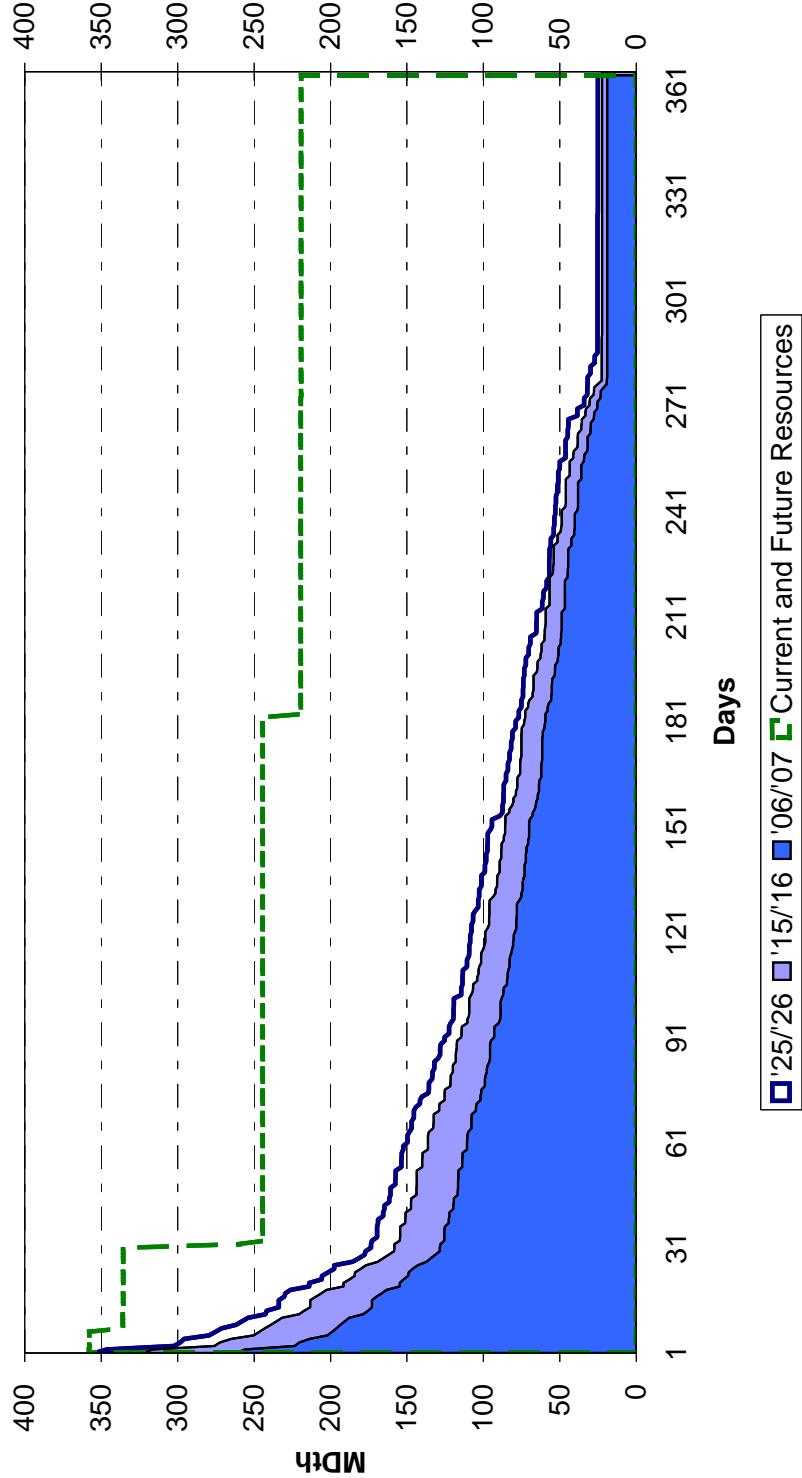
Appendix 6.5 - Oregon Existing & Least Cost Resources vs. Peak Day Demand (Net of DSM Savings) - High Demand Case



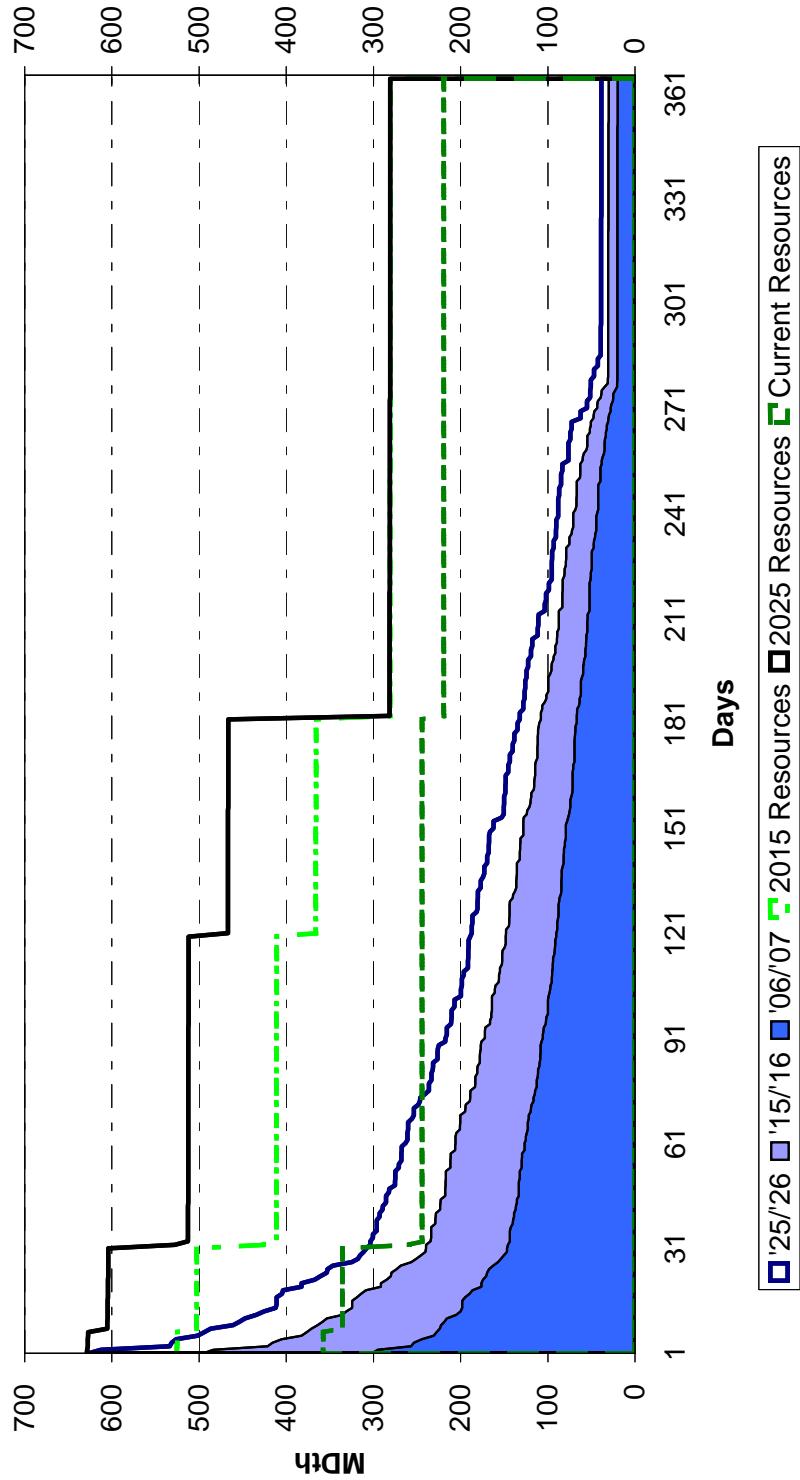
Load Duration Curves

Appendix 6.6

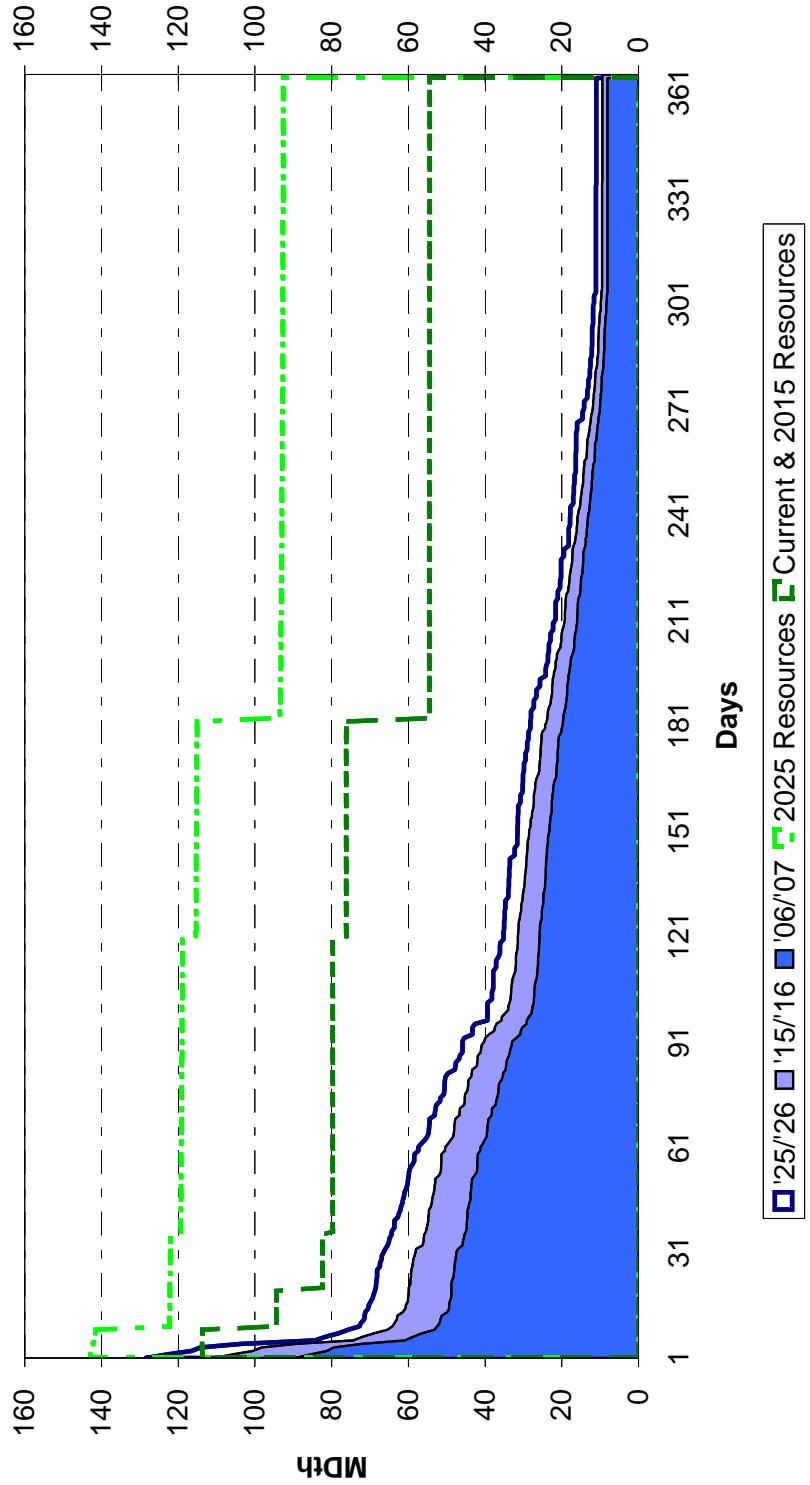
App. 6.6 - Firm Load Duration Curve & Resource Stack (with DSM)
Average/Actual Weather with Design Day
Low Demand Case - Washington/Idaho



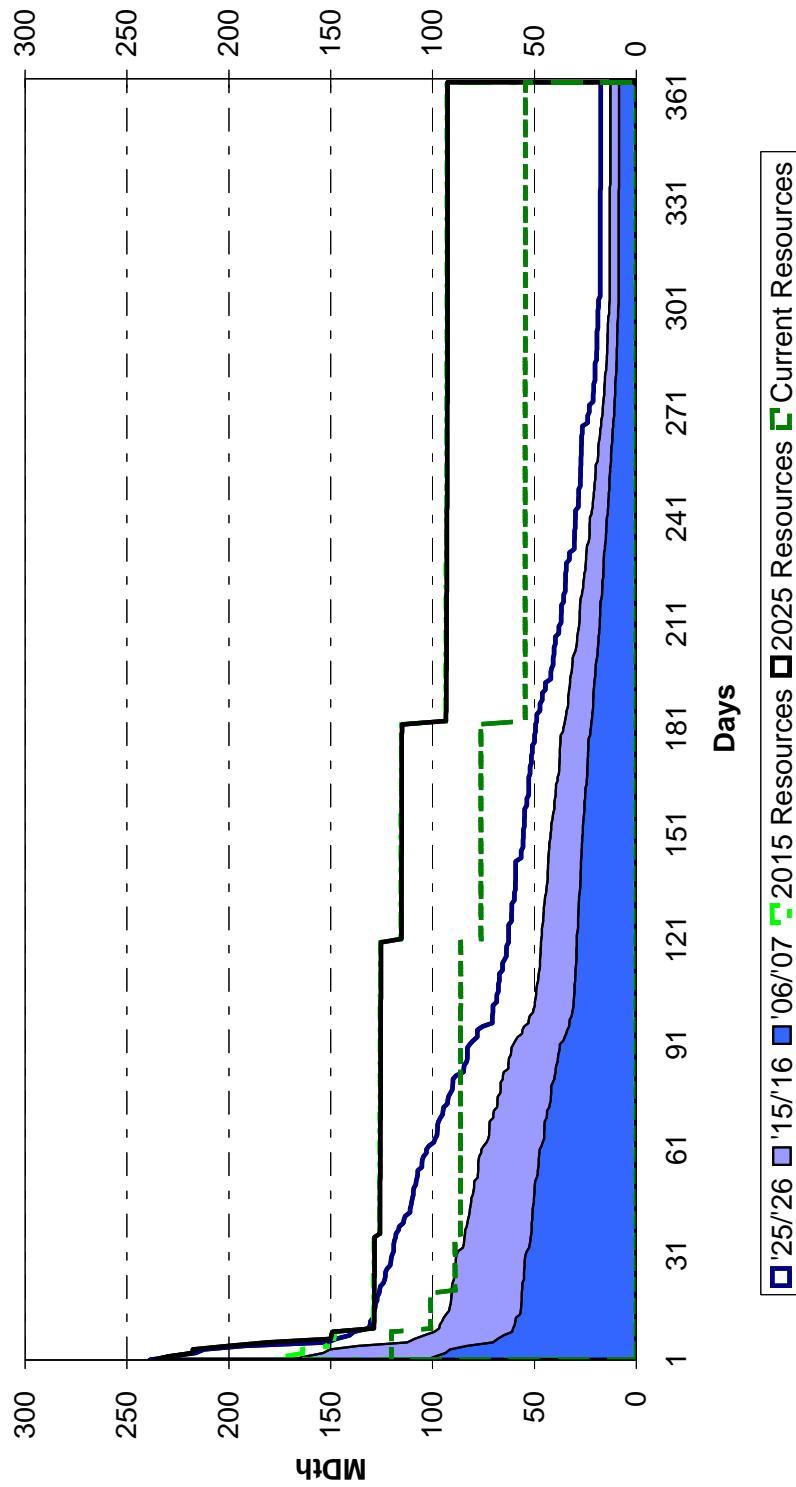
App. 6.6 - Firm Load Duration Curve & Resource Stack (with DSM)
Average/Actual Weather with Design Day
High Demand Case - Washington/Idaho



App. 6.6 - Firm Load Duration Curve & Resource Stack (with DSM)
Average/Actual Weather with Design Day
Low Demand Case - Oregon



App. 6.6 - Firm Load Duration Curve & Resource Stack (with DSM)
Average/Actual Weather with Design Day
High Demand Case - Oregon



Resource Selections

Appendix 6.7

Appendix 6.7 - Least Cost Supply-Side Resource Additions Selected by SENDOUT®

Case 6 - High Price, Low Customer Growth Case

Item #	Region	Type	Quantity Dth/d	Timing	Rates/Charges	Notes
Washington/Idaho						
None Required In This Case During IRP Planning Horizon						
Oregon						
1	Klamath Falls	Purchase	n/a	November 2006	\$3MM Capital Cost	Purchase of NWP Klamath pipeline segment. Transportation and fuel cost savings more than offset the revenue requirement and capital cost of the investment. Payoff is approximately 3 years
2	Klamath Falls	Reclassification	6,000	November 2006	No Incremental Charges	Companion to Item #1. Ownership of lateral allows Avista to operate this lateral as distribution transmission system which provides approximately 6,000 Dth/d incremental capacity
3	Medford/Roseburg	Distribution Enhancement	n/a	November 2007	\$11MM Capital Cost/\$1.3MM Annual Revenue Requirement	Companion item to Item # 4 below GTN expansion of the Medford Lateral. Assumed current lateral rates, escalated for inflation, for expansion. Item #3 above required to facilitate this option.
4	Medford/Roseburg	Transportation	20,000	November 2019	GTN's Med. Lat. Rate	

Appendix 6.7 - Least Cost Supply-Side Resource Additions Selected by SENDOUT®

Case 7 - Low Price, High Customer Growth Case

Item #	Region	Type	Quantity Dth/d	Timing	Rates/Charges	Notes
Washington/Idaho						
1	WA/ID	Transportation	60,000	November 2010	TransCanada and GTN Transportation Rates Plus Commodity	GTN contract is winter-only
2	WA/ID	Transportation	22,000	November 2014	\$4.7 MM Capital Cost Plus Commodity and NWP Transportation Rate	WA/ID area expansions to facilitate the delivery in and around Spokane, Lewiston, etc. from GTN into NWP
3	WA/ID	Transportation	60,000	November 2015	TransCanada and GTN Transportation Rates Plus Commodity	
4	WA/ID	Storage	63,000	November 2016	No Cost Other Than Loss of Release Revenue	2,268,000 Dth of capacity
5	WA/ID	Transportation	100,000	November 2016	NWP Transportation Rate Times 1.5	JP storage related transportation expansion
6	WA/ID	Transportation	25,000	November 2018	\$5.0 MM Capital Cost Plus Commodity and NWP Transportation Rate	WA/ID area expansions to facilitate the delivery in and around Spokane, Lewiston, etc. from GTN into NWP
7	WA/ID	Storage	104,000	November 2020	n/a	2,589,578 capacity
8	WA/ID	Transportation	25,000	November 2022	\$5.0 MM Capital Cost Plus Commodity and NWP Transportation Rate	WA/ID area expansions to facilitate the delivery in and around Spokane, Lewiston, etc. from GTN into NWP
Oregon						
9	Klamath Falls	Purchase	n/a	November 2006	\$3MM Capital Cost	Purchase of NWP Klamath pipeline segment. Transportation and fuel cost savings more than offset the revenue requirement and capital cost of the investment. Payoff is approximately 3 years.
10	Klamath Falls	Reclassification	6,000	November 2006	No Incremental Charges	Companion to Item #9. Ownership of lateral allows Avista to operate this lateral as distribution transmission system which provides approximately 6,000 Dth/d incremental capacity
11	Medford/Roseburg	Distribution Enhancement	n/a	November 2007	\$11MM Capital Cost/\$1.3MM Annual Revenue Requirement	Companion item to Item #13 below
12	La Grande	Distribution Enhancement	4,000	November 2009	\$3MM Capital Cost/\$.360MM Annual Revenue Requirement	
13	Medford/Roseburg	Transportation	20,000	November 2010	GTN's Med. Lat. Rate	GTN expansion of the Medford Lateral. Assumed current lateral rates, escalated for inflation, for expansion. Item #11 above required to facilitate this option.
14	Medford/Roseburg	LNG	Varies	November 2011	LNG Commodity Cost	Coos Bay LNG facility and deliveries via Pacific Connector Pipeline. Cost is assumed to be AECO plus \$1.50. Quantities vary by peak requirements and are as low as 0 Dth/day to as high as 86,000 Dth/c
15	Klamath Falls	Transportation	10,000	November 2016	GTN's Med. Lat. Rate	GTN expansion of the Medford Lateral. Assumed current lateral rates, escalated for inflation, for expansion.
16	La Grande	Distribution Enhancement	1,000	November 2017	\$1MM Capital Cost/\$.120MM Annual Revenue Requirement	
17	La Grande	Distribution Enhancement	1,000	November 2021	\$1MM Capital Cost/\$.120MM Annual Revenue Requirement	

Demand-Side Management Savings

Appendix 6.8

Appendix 6.8 - Annual and Annual Average Demand Served by Demand-Side Management 1/

Case	Gas Year	Annual Klamath DSM (MDth)			Annual Il La Grande DSM (MDth)			Annual Medford DSM (MDth)			Daily Medford DSM (MDth/day)			Annual Roseburg DSM (MDth)			Daily Roseburg DSM (MDth/day)			Annual W/AID DSM (MDth)			Daily W/AID DSM (MDth/day)			Annual Total System DSM (MDth)			Daily Total System DSM (MDth/day)												
		DSM (MDth)	9.991	0.027	4.280	0.012	8.586	0.024	49.768	0.068	5.933	0.016	44.98	0.12	105,038	0.288	150,02	0.41	5.933	0.033	90,30	0.25	210,723	0.577	301,02	0.82	13.903	0.033	134,95	0.37	315,115	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64	
2	2006-2007	20,043	0.056	4,055	0.012	49,768	0.036	74,342	0.204	17,799	0.049	134,95	0.37	315,115	0.863	450,07	1.23	21,723	0.577	301,02	0.82	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2007-2008	29,972	0.082	12,841	0.035	74,342	0.204	17,799	0.049	134,95	0.37	315,115	0.863	450,07	1.23	21,723	0.577	301,02	0.82	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64								
2	2008-2009	39,963	0.109	17,121	0.047	99,122	0.272	23,732	0.065	17,994	0.49	224,92	0.62	525,192	1.439	750,11	2.06	22,92	0.62	301,02	0.82	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2009-2010	39,963	0.109	21,402	0.059	123,903	0.339	29,665	0.081	27,078	0.988	270,90	0.74	621,538	1.703	892,44	2.45	27,078	0.988	270,90	0.74	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2010-2011	49,953	0.137	25,757	0.071	149,304	0.409	41,531	0.114	314,89	0.86	712,033	1.951	1,026,92	2.81	1,026,92	2.81	35,708	0.988	270,90	0.74	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2011-2012	60,129	0.165	45,431	0.124	271,991	0.745	65,678	0.180	483,97	1.33	1,089,136	2.984	1,573,11	4.31	1,573,11	4.31	65,103	0.180	483,97	1.33	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2012-2013	69,934	0.192	29,962	0.082	173,464	0.475	54,543	0.130	359,88	0.99	804,429	2.204	1,164,31	3.19	1,164,31	3.19	41,531	0.130	359,88	0.99	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2013-2014	79,925	0.219	34,243	0.094	198,245	0.543	53,397	0.146	404,86	1.11	896,826	2.457	1,301,69	3.57	1,301,69	3.57	53,397	0.146	404,86	1.11	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2014-2015	89,916	0.246	38,523	0.106	223,026	0.611	59,513	0.163	45,149	1.24	992,248	2.778	1,443,74	3.96	1,443,74	3.96	59,513	0.163	45,149	1.24	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2015-2016	100,214	0.275	42,928	0.124	271,991	0.745	65,678	0.180	483,97	1.33	1,089,136	2.984	1,573,11	4.31	1,573,11	4.31	77,408	0.180	483,97	1.33	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2016-2017	100,872	0.276	45,431	0.124	244,048	0.669	58,480	0.160	438,08	1.20	1,045,926	2.866	1,484,01	4.07	1,484,01	4.07	64,529	0.160	438,08	1.20	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2017-2018	92,581	0.254	42,973	0.118	269,794	0.739	64,647	0.154	425,59	1.17	1,082,768	2.966	1,569,39	4.27	1,569,39	4.27	64,529	0.154	425,59	1.17	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2018-2019	90,289	0.247	42,599	0.117	236,314	0.647	56,391	0.132	48,151	1.02	1,017,861	2.789	1,425,98	3.91	1,425,98	3.91	64,529	0.132	48,151	1.02	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2019-2020	87,037	0.238	41,801	0.115	225,549	0.618	53,727	0.147	408,11	1.12	1,046,25	2.708	1,406,25	3.85	1,406,25	3.85	64,529	0.147	408,11	1.12	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
2	2020-2021	97,393	0.218	39,059	0.107	204,712	0.561	48,678	0.133	371,84	1.02	998,575	2.736	1,370,42	3.75	1,370,42	3.75	64,529	0.133	371,84	1.02	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64						
6	2006-2007	10,053	0.028	4,527	0.012	25,803	0.071	6,023	0.017	6,411	0.13	115,235	0.316	161,64	0.44	161,64	0.44	51,823	0.033	93,16	0.26	231,173	0.633	324,33	0.89	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64		
6	2007-2008	20,168	0.056	9,080	0.025	55,470	0.142	18,069	0.050	13,922	0.38	345,703	0.947	484,92	1.33	484,92	1.33	77,408	0.050	13,922	0.38	345,703	0.947	484,92	1.33	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64		
6	2008-2009	30,159	0.083	13,581	0.037	77,410	0.212	20,623	0.065	103,213	0.283	24,092	0.066	185,63	0.51	480,938	1.263	646,56	1.77	64,529	0.066	232,03	0.64	576,172	1.579	808,20	2.21	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64
6	2009-2010	40,212	0.110	18,108	0.050	103,213	0.283	30,533	0.115	18,069	0.093	27,946	0.77	682,889	1,871	962,35	2.64	962,35	2.64	80,623	0.115	32,484	0.89	783,406	2,146	1,108,25	3.04	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64
6	2010-2011	50,265	0.138	22,635	0.062	129,017	0.362	36,250	0.426	30,533	0.115	18,069	0.093	27,946	0.77	682,889	1,871	962,35	2.64	80,623	0.115	32,484	0.89	783,406	2,146	1,108,25	3.04	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64
6	2011-2012	60,504	0.166	27,241	0.075	155,470	0.426	42,161	0.116	42,161	0.116	42,161	0.116	42,161	0.116	42,161	0.116	42,161	0.116	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64								
6	2012-2013	70,371	0.193	31,689	0.087	180,623	0.495	56,566	0.132	48,184	0.132	48,184	0.132	48,184	0.132	48,184	0.132	48,184	0.132	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64								
6	2013-2014	80,424	0.220	36,216	0.099	206,427	0.566	54,536	0.120	204,712	0.561	46,016	0.120	46,016	0.120	46,016	0.120	46,016	0.120	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64								
6	2014-2015	90,477	0.248	40,743	0.124	259,117	0.745	65,678	0.180	48,397	0.178	48,397	0.178	48,397	0.178	48,397	0.178	48,397	0.178	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64								
6	2015-2016	100,840	0.276	45,431	0.124	271,991	0.745	65,678	0.180	48,397	0.178	48,397	0.178	48,397	0.178	48,397	0.178	48,397	0.178	11.903	0.033	14,49	0.37	31,023	0.863	450,07	1.23	17.99	0.049	420,153	1.151	60,09	1.64								
6	2016-2017	100,872	0.276	45,431	0.124	244,048	0.669	58,480	0.160																																

Appendix 6.8 - Annual and Annual Average Demand Served by Demand-Side Management 1/

Case	Gas Year	Annual Klamath DSM (MDth)			Annual I La Grande DSM (MDth)			Annual Medford DSM (MDth)			Daily Medford DSM (MDth/day)			Annual Roseburg DSM (MDth)			Daily Roseburg DSM (MDth/day)			Annual W/AID DSM (MDth)			Daily W/AID DSM (MDth/day)			Annual System DSM (MDth)			Daily Total System DSM (MDth/day)				
		DSM (MDth)	0.025	8.969	0.025	4.046	0.011	17.992	0.049	8.116	0.022	49.768	0.068	24.781	0.068	5.933	0.016	43.73	0.12	67.705	0.185	111.43	0.31	DSM (MDth)	0.033	87.78	0.24	135.804	0.372	223.58	0.61		
7	2006-2007																																
7	2007-2008	17.992	0.049	8.116	0.022	49.768	0.068	24.781	0.068	12.139	0.033	74.342	0.204	17.799	0.049	11.903	0.033	87.78	0.24	135.804	0.372	223.58	0.61										
7	2008-2009	26.906	0.074	12.139	0.033	74.342	0.204	24.781	0.068	16.186	0.044	99.123	0.272	23.732	0.065	174.91	0.48	131.19	0.36	203.115	0.556	334.30	0.92										
7	2009-2010	35.875	0.098	16.186	0.044	99.123	0.272	24.781	0.068	20.232	0.123	123.903	0.339	29.665	0.081	218.64	0.60	265.009	1.000	583.65	1.60												
7	2010-2011	44.843	0.123	20.232	0.105	123.903	0.339	24.781	0.068	24.349	0.067	149.304	0.409	35.708	0.098	263.34	0.72	428.674	1.174	692.01	1.90												
7	2011-2012	53.977	0.148	24.349	0.067	149.304	0.409	24.781	0.078	28.325	0.172	173.464	0.475	41.531	0.114	306.10	0.84	487.778	1.336	793.88	2.18												
7	2012-2013	62.781	0.172	28.325	0.078	173.464	0.475	24.781	0.089	198.245	0.543	47.464	0.130	349.83	0.96	548.138	1.502	897.97	2.46														
7	2013-2014	71.749	0.197	32.371	0.089	223.025	0.100	24.781	0.100	36.418	0.221	50.111	0.161	53.397	0.146	393.56	1.08	608.498	1.667	1,002.06	2.75												
7	2014-2015	80.718	0.221	40.582	0.111	248.840	0.182	24.781	0.126	45.431	0.124	271.991	0.745	65.678	0.180	438.90	1.20	670.809	1.838	1,109.71	3.04												
7	2015-2016	89.962	0.246	45.431	0.124	271.991	0.745	24.781	0.142	45.142	0.124	269.794	0.739	65.103	0.178	480.30	1.32	1,089.136	2.384	1,573.11	4.31												
7	2016-2017	100.872	0.276	45.142	0.124	269.794	0.739	24.781	0.162	44.853	0.123	267.597	0.733	64.529	0.177	476.62	1.31	1,087.087	2.978	1,567.39	4.29												
7	2017-2018	100.259	0.275	45.142	0.124	267.597	0.733	24.781	0.162	44.530	0.122	265.653	0.728	63.951	0.175	473.10	1.30	1,082.767	2.966	1,559.39	4.27												
7	2018-2019	99.646	0.273	44.853	0.123	44.530	0.122	24.781	0.162	43.948	0.120	261.452	0.716	62.976	0.173	466.06	1.28	1,065.283	2.919	1,531.34	4.20												
7	2019-2020	98.970	0.271	43.948	0.120	261.452	0.716	24.781	0.162	43.460	0.119	252.750	0.692	60.728	0.166	452.07	1.24	1,064.580	2.889	1,506.66	4.13												
7	2020-2021	97.684	0.268	43.460	0.119	252.750	0.692	24.781	0.162	42.973	0.118	244.048	0.669	58.481	0.160	438.08	1.20	1,045.926	2.866	1,484.01	4.07												
7	2021-2022	95.133	0.261	43.460	0.119	242.973	0.118	24.781	0.162	42.599	0.117	236.314	0.647	56.391	0.154	425.59	1.17	1,040.304	2.850	1,465.90	4.02												
7	2022-2023	92.581	0.254	42.599	0.117	236.314	0.647	24.781	0.162	41.801	0.115	225.549	0.618	53.727	0.147	408.11	1.12	1,017.860	2.789	1,425.97	3.91												
7	2023-2024	90.289	0.247	41.801	0.115	214.728	0.107	204.712	0.561	39.059	0.107	204.712	0.716	48.678	0.133	371.84	1.02	988.574	2.736	1,370.42	3.75												
7	2024-2025	87.037	0.238	41.801	0.115	204.712	0.716	204.712	0.561	39.059	0.107	204.712	0.716	48.678	0.133	371.84	1.02	988.574	2.736	1,370.42	3.75												
7	2025-2026	79.393	0.218	41.801	0.115	204.712	0.716	204.712	0.561	39.059	0.107	204.712	0.716	48.678	0.133	371.84	1.02	988.574	2.736	1,370.42	3.75												

1/ Actual peak day DSM is greater than annual average DSM

Avoided Cost Determination

Appendix 7.1

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Summary
Expected Case (Case #2)
 Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Year of Forecast	Annual				Winter			
		Klamath Falls	La Grande	Medford	Roseburg	Klamath Falls	La Grande	Medford	Roseburg
2006/2007	1	\$6.07	\$6.05	\$6.05	\$5.99	\$6.90	\$6.87	\$6.87	\$6.82
2007/2008	2	\$5.74	\$5.71	\$5.71	\$5.67	\$6.52	\$6.50	\$6.50	\$6.45
2008/2009	3	\$5.24	\$5.21	\$5.21	\$5.17	\$5.95	\$5.93	\$5.93	\$5.88
2009/2010	4	\$5.06	\$5.04	\$5.04	\$5.00	\$5.76	\$5.73	\$5.73	\$5.70
2010/2011	5	\$5.06	\$5.04	\$5.04	\$5.00	\$5.76	\$5.73	\$5.73	\$5.70
2011/2012	6	\$5.24	\$5.21	\$5.21	\$5.17	\$5.95	\$5.93	\$5.93	\$5.88
2012/2013	7	\$5.40	\$5.38	\$5.38	\$5.33	\$6.14	\$6.11	\$6.11	\$6.06
2013/2014	8	\$5.57	\$5.55	\$5.55	\$5.49	\$6.34	\$6.30	\$6.30	\$6.25
2014/2015	9	\$5.70	\$5.67	\$5.67	\$5.63	\$6.48	\$6.45	\$6.45	\$6.40
2015/2016	10	\$6.03	\$6.01	\$6.01	\$5.95	\$6.86	\$6.82	\$6.82	\$6.78
2016/2017	11	\$6.49	\$6.47	\$6.47	\$6.40	\$7.39	\$7.35	\$7.35	\$7.29
2017/2018	12	\$6.83	\$6.80	\$6.80	\$6.74	\$7.77	\$7.73	\$7.73	\$7.66
2018/2019	13	\$7.17	\$7.13	\$7.13	\$7.07	\$8.16	\$8.10	\$8.10	\$8.05
2019/2020	14	\$7.51	\$7.46	\$7.46	\$7.41	\$8.54	\$8.49	\$8.49	\$8.43
2020/2021	15	\$7.67	\$7.64	\$7.64	\$7.57	\$8.72	\$8.67	\$8.67	\$8.61
2021/2022	16	\$7.84	\$7.80	\$7.80	\$7.73	\$8.92	\$8.87	\$8.87	\$8.80
2022/2023	17	\$8.01	\$7.97	\$7.97	\$7.90	\$9.11	\$9.06	\$9.06	\$9.00
2023/2024	18	\$8.19	\$8.15	\$8.15	\$8.08	\$9.31	\$9.26	\$9.26	\$9.19
2024/2025	19	\$8.37	\$8.32	\$8.32	\$8.25	\$9.51	\$9.46	\$9.46	\$9.39
2025/2026	20	\$8.37	\$8.32	\$8.32	\$8.25	\$9.51	\$9.46	\$9.47	\$9.39

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Annual

Expected Case (Case #2)

Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	WA/ID
2006	Nov	8.73	8.69	8.69	8.69	8.64
2006	Dec	9.16	9.04	9.16	9.04	9.01
2007	Jan	7.04	7.00	7.04	7.00	6.99
2007	Feb	7.05	7.00	7.04	7.00	6.98
2007	Mar	6.90	6.87	6.87	6.87	6.82
2007	Apr	6.07	6.04	6.04	6.04	5.98
2007	May	5.97	5.94	5.94	5.94	5.87
2007	Jun	6.00	5.97	5.97	5.97	5.90
2007	Jul	6.04	6.01	6.01	6.01	5.94
2007	Aug	6.06	6.04	6.04	6.04	5.96
2007	Sep	6.05	6.02	6.02	6.02	5.95
2007	Oct	6.07	6.05	6.05	6.05	5.99
	Avg.	6.76	6.72	6.74	6.72	6.67
2007	Nov	6.35	6.32	6.33	6.32	6.29
2007	Dec	6.70	6.58	6.70	6.58	6.56
2008	Jan	6.64	6.59	6.64	6.59	6.58
2008	Feb	6.88	6.83	6.87	6.83	6.82
2008	Mar	6.52	6.50	6.50	6.50	6.45
2008	Apr	5.73	5.70	5.70	5.70	5.65
2008	May	5.64	5.61	5.61	5.61	5.55
2008	Jun	5.67	5.64	5.64	5.64	5.58
2008	Jul	5.70	5.67	5.67	5.67	5.61
2008	Aug	5.73	5.70	5.70	5.70	5.64
2008	Sep	5.72	5.69	5.69	5.69	5.63
2008	Oct	5.74	5.71	5.71	5.71	5.67
	Avg.	6.08	6.05	6.06	6.05	6.00
2008	Nov	6.00	5.97	5.97	5.97	5.94
2008	Dec	6.36	6.21	6.36	6.23	6.19
2009	Jan	6.08	6.03	6.08	6.04	6.04
2009	Feb	6.09	6.05	6.09	6.05	6.03
2009	Mar	5.95	5.93	5.93	5.93	5.88
2009	Apr	5.23	5.20	5.20	5.20	5.16
2009	May	5.13	5.12	5.12	5.12	5.06
2009	Jun	5.16	5.14	5.14	5.14	5.08
2009	Jul	5.19	5.17	5.17	5.17	5.11
2009	Aug	5.23	5.20	5.20	5.20	5.14
2009	Sep	5.22	5.19	5.19	5.19	5.14
2009	Oct	5.24	5.21	5.21	5.21	5.17
	Avg.	5.57	5.54	5.56	5.54	5.50
2009	Nov	5.47	5.45	5.46	5.45	5.42
2009	Dec	5.84	5.71	5.87	5.78	5.70
2010	Jan	5.87	5.82	5.87	5.82	5.81
2010	Feb	5.90	5.86	5.90	5.86	5.85
2010	Mar	5.76	5.73	5.73	5.73	5.70
2010	Apr	5.06	5.04	5.04	5.04	5.00
2010	May	4.97	4.95	4.95	4.95	4.89
2010	Jun	5.00	4.98	4.98	4.98	4.92
2010	Jul	5.03	5.01	5.01	5.01	4.95
2010	Aug	5.05	5.03	5.03	5.03	4.97

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Annual

Expected Case (Case #2)

Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	WA/ID
2010	Sep	5.04	5.02	5.02	5.02	4.97
2010	Oct	5.06	5.04	5.04	5.04	5.00
	Avg.	5.34	5.30	5.33	5.31	5.27
2010	Nov	5.30	5.27	5.27	5.27	5.24
2010	Dec	5.65	5.55	5.65	5.65	5.56
2011	Jan	5.86	5.82	5.86	5.86	5.82
2011	Feb	5.90	5.87	5.89	5.89	5.86
2011	Mar	5.76	5.73	5.73	5.73	5.70
2011	Apr	5.06	5.04	5.04	5.04	5.00
2011	May	4.97	4.95	4.95	4.95	4.90
2011	Jun	5.00	4.98	4.98	4.98	4.92
2011	Jul	5.03	5.01	5.01	5.01	4.95
2011	Aug	5.05	5.03	5.03	5.03	4.97
2011	Sep	5.04	5.02	5.02	5.02	4.97
2011	Oct	5.06	5.04	5.04	5.04	5.00
	Avg.	5.31	5.28	5.29	5.29	5.24
2011	Nov	5.30	5.27	5.27	5.27	5.24
2011	Dec	5.79	5.73	5.79	5.79	5.74
2012	Jan	6.07	6.03	6.07	6.07	6.03
2012	Feb	6.31	6.28	6.30	6.30	6.28
2012	Mar	5.95	5.93	5.93	5.93	5.88
2012	Apr	5.23	5.20	5.20	5.20	5.16
2012	May	5.13	5.12	5.12	5.12	5.06
2012	Jun	5.16	5.14	5.14	5.14	5.08
2012	Jul	5.19	5.17	5.17	5.17	5.11
2012	Aug	5.23	5.20	5.20	5.20	5.14
2012	Sep	5.22	5.19	5.19	5.19	5.14
2012	Oct	5.24	5.21	5.21	5.21	5.17
	Avg.	5.48	5.46	5.47	5.47	5.42
2012	Nov	5.47	5.45	5.45	5.45	5.41
2012	Dec	5.84	5.73	5.84	5.84	5.72
2013	Jan	6.25	6.20	6.25	6.25	6.19
2013	Feb	6.29	6.25	6.29	6.29	6.25
2013	Mar	6.14	6.11	6.11	6.11	6.06
2013	Apr	5.39	5.38	5.38	5.38	5.32
2013	May	5.30	5.28	5.29	5.29	5.22
2013	Jun	5.33	5.32	5.32	5.32	5.25
2013	Jul	5.36	5.35	5.35	5.35	5.28
2013	Aug	5.39	5.37	5.37	5.37	5.31
2013	Sep	5.38	5.36	5.36	5.36	5.30
2013	Oct	5.40	5.38	5.38	5.38	5.33
	Avg.	5.63	5.60	5.61	5.61	5.55
2013	Nov	5.65	5.62	5.62	5.62	5.58
2013	Dec	6.03	5.91	6.03	6.03	5.92
2014	Jan	6.45	6.39	6.45	6.45	6.39
2014	Feb	6.49	6.45	6.49	6.49	6.45
2014	Mar	6.34	6.30	6.30	6.30	6.25
2014	Apr	5.57	5.54	5.54	5.54	5.49
2014	May	5.47	5.45	5.45	5.45	5.39

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Annual

Expected Case (Case #2)

Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	WA/ID
2014	Jun	5.50	5.48	5.48	5.48	5.42
2014	Jul	5.53	5.51	5.51	5.51	5.45
2014	Aug	5.55	5.53	5.53	5.53	5.47
2014	Sep	5.55	5.52	5.52	5.52	5.46
2014	Oct	5.57	5.55	5.55	5.55	5.49
	Avg.	5.81	5.77	5.79	5.79	5.73
2014	Nov	5.82	5.79	5.80	5.80	5.75
2014	Dec	6.33	6.26	6.33	6.33	6.27
2015	Jan	6.63	6.58	6.63	6.63	6.57
2015	Feb	6.66	6.61	6.66	6.66	6.61
2015	Mar	6.48	6.45	6.45	6.45	6.40
2015	Apr	5.69	5.66	5.66	5.66	5.61
2015	May	5.60	5.57	5.57	5.57	5.52
2015	Jun	5.63	5.60	5.60	5.60	5.54
2015	Jul	5.66	5.63	5.63	5.63	5.57
2015	Aug	5.68	5.66	5.66	5.66	5.59
2015	Sep	5.67	5.65	5.65	5.65	5.59
2015	Oct	5.70	5.67	5.67	5.67	5.63
	Avg.	5.96	5.93	5.94	5.94	5.89
2015	Nov	5.96	5.93	5.93	5.93	5.89
2015	Dec	6.60	6.55	6.60	6.60	6.57
2016	Jan	7.04	6.98	7.04	7.04	6.97
2016	Feb	7.31	7.26	7.31	7.31	7.26
2016	Mar	6.86	6.82	6.82	6.82	6.78
2016	Apr	6.03	6.00	6.00	6.00	5.95
2016	May	5.93	5.90	5.90	5.90	5.84
2016	Jun	5.96	5.93	5.93	5.93	5.87
2016	Jul	5.99	5.97	5.97	5.97	5.89
2016	Aug	6.02	5.99	5.99	5.99	5.92
2016	Sep	6.01	5.98	5.98	5.98	5.92
2016	Oct	6.03	6.01	6.01	6.01	5.95
	Avg.	6.31	6.27	6.29	6.29	6.23
2016	Nov	6.31	6.27	6.28	6.28	6.23
2016	Dec	6.73	6.61	6.73	6.73	6.60
2017	Jan	7.53	7.46	7.53	7.53	7.45
2017	Feb	7.58	7.53	7.58	7.58	7.52
2017	Mar	7.39	7.35	7.35	7.35	7.29
2017	Apr	6.49	6.46	6.46	6.46	6.41
2017	May	6.38	6.35	6.35	6.35	6.28
2017	Jun	6.42	6.38	6.38	6.38	6.32
2017	Jul	6.45	6.43	6.43	6.43	6.35
2017	Aug	6.48	6.45	6.45	6.45	6.38
2017	Sep	6.47	6.44	6.44	6.44	6.38
2017	Oct	6.49	6.47	6.47	6.47	6.40
	Avg.	6.73	6.68	6.70	6.70	6.63
2017	Nov	6.79	6.75	6.76	6.76	6.70
2017	Dec	7.36	7.30	7.36	7.36	7.29
2018	Jan	7.91	7.84	7.91	7.91	7.83
2018	Feb	7.97	7.89	7.97	7.97	7.88

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Annual

Expected Case (Case #2)

Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	WA/ID
2018	Mar	7.77	7.73	7.73	7.73	7.66
2018	Apr	6.82	6.79	6.79	6.79	6.73
2018	May	6.71	6.68	6.68	6.68	6.61
2018	Jun	6.75	6.71	6.71	6.71	6.64
2018	Jul	6.79	6.75	6.75	6.75	6.68
2018	Aug	6.82	6.78	6.78	6.78	6.71
2018	Sep	6.81	6.77	6.77	6.77	6.71
2018	Oct	6.83	6.80	6.80	6.80	6.74
	Avg.	7.11	7.07	7.09	7.09	7.02
2018	Nov	7.14	7.11	7.11	7.11	7.05
2018	Dec	7.77	7.69	7.77	7.77	7.68
2019	Jan	8.33	8.25	8.33	8.33	8.25
2019	Feb	8.37	8.30	8.37	8.37	8.30
2019	Mar	8.16	8.10	8.10	8.10	8.05
2019	Apr	7.16	7.13	7.13	7.13	7.06
2019	May	7.04	7.02	7.02	7.02	6.93
2019	Jun	7.08	7.05	7.05	7.05	6.97
2019	Jul	7.12	7.09	7.09	7.09	7.01
2019	Aug	7.15	7.12	7.12	7.12	7.04
2019	Sep	7.14	7.11	7.11	7.11	7.03
2019	Oct	7.17	7.13	7.13	7.13	7.07
	Avg.	7.47	7.42	7.44	7.44	7.37
2019	Nov	7.49	7.45	7.46	7.46	7.40
2019	Dec	8.15	8.09	8.15	8.15	8.09
2020	Jan	8.79	8.67	8.79	8.79	8.67
2020	Feb	9.07	8.99	9.07	9.07	8.99
2020	Mar	8.54	8.49	8.49	8.49	8.43
2020	Apr	7.50	7.45	7.45	7.45	7.40
2020	May	7.36	7.34	7.34	7.34	7.26
2020	Jun	7.42	7.37	7.37	7.37	7.30
2020	Jul	7.46	7.41	7.41	7.41	7.34
2020	Aug	7.49	7.45	7.45	7.45	7.37
2020	Sep	7.48	7.44	7.44	7.44	7.37
2020	Oct	7.51	7.46	7.46	7.46	7.41
	Avg.	7.85	7.80	7.83	7.83	7.75
2020	Nov	7.85	7.80	7.81	7.81	7.75
2020	Dec	8.54	8.48	8.55	8.55	8.49
2021	Jan	8.96	8.87	8.96	8.96	8.86
2021	Feb	8.95	8.87	8.95	8.95	8.87
2021	Mar	8.72	8.67	8.68	8.67	8.61
2021	Apr	7.66	7.63	7.63	7.63	7.56
2021	May	7.53	7.50	7.50	7.50	7.42
2021	Jun	7.58	7.53	7.53	7.53	7.47
2021	Jul	7.62	7.59	7.59	7.59	7.51
2021	Aug	7.65	7.62	7.62	7.62	7.54
2021	Sep	7.64	7.61	7.61	7.61	7.53
2021	Oct	7.67	7.64	7.64	7.64	7.57
	Avg.	8.03	7.98	8.00	8.00	7.93
2021	Nov	8.02	7.97	7.98	7.98	7.93

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Annual

Expected Case (Case #2)

Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	WA/ID
2021	Dec	8.73	8.67	8.74	8.75	8.68
2022	Jan	9.16	9.06	9.16	9.16	9.05
2022	Feb	9.15	9.07	9.15	9.15	9.07
2022	Mar	8.92	8.87	8.87	8.87	8.80
2022	Apr	7.84	7.79	7.79	7.79	7.74
2022	May	7.70	7.67	7.67	7.67	7.60
2022	Jun	7.75	7.70	7.70	7.70	7.63
2022	Jul	7.79	7.75	7.75	7.75	7.67
2022	Aug	7.83	7.78	7.78	7.78	7.71
2022	Sep	7.81	7.77	7.77	7.77	7.69
2022	Oct	7.84	7.80	7.80	7.80	7.73
	Avg.	8.21	8.16	8.18	8.18	8.11
2022	Nov	8.20	8.16	8.17	8.17	8.10
2022	Dec	8.91	8.75	8.91	8.91	8.73
2023	Jan	9.31	9.19	9.31	9.31	9.19
2023	Feb	9.34	9.27	9.34	9.35	9.26
2023	Mar	9.11	9.06	9.06	9.06	9.00
2023	Apr	8.00	7.96	7.96	7.96	7.90
2023	May	7.87	7.84	7.84	7.84	7.76
2023	Jun	7.91	7.87	7.87	7.87	7.79
2023	Jul	7.96	7.92	7.92	7.92	7.84
2023	Aug	7.99	7.95	7.95	7.95	7.87
2023	Sep	7.98	7.94	7.94	7.94	7.87
2023	Oct	8.01	7.97	7.97	7.97	7.90
	Avg.	8.38	8.32	8.36	8.36	8.27
2023	Nov	8.37	8.33	8.36	8.35	8.27
2023	Dec	9.15	8.95	9.19	9.19	8.94
2024	Jan	9.66	9.44	9.66	9.66	9.43
2024	Feb	9.89	9.80	9.89	9.90	9.79
2024	Mar	9.31	9.26	9.26	9.26	9.19
2024	Apr	8.18	8.14	8.14	8.14	8.07
2024	May	8.04	8.01	8.01	8.01	7.93
2024	Jun	8.08	8.04	8.04	8.04	7.97
2024	Jul	8.14	8.08	8.08	8.08	8.01
2024	Aug	8.17	8.13	8.13	8.13	8.04
2024	Sep	8.16	8.12	8.12	8.12	8.04
2024	Oct	8.19	8.15	8.15	8.15	8.08
	Avg.	8.61	8.54	8.59	8.59	8.48
2024	Nov	8.56	8.51	8.54	8.54	8.45
2024	Dec	9.36	9.21	9.42	9.42	9.20
2025	Jan	9.92	9.67	9.92	9.92	9.66
2025	Feb	9.77	9.67	9.77	9.78	9.66
2025	Mar	9.51	9.46	9.46	9.46	9.39
2025	Apr	8.35	8.31	8.31	8.31	8.24
2025	May	8.21	8.19	8.19	8.19	8.09
2025	Jun	8.26	8.22	8.22	8.22	8.14
2025	Jul	8.31	8.26	8.26	8.26	8.18
2025	Aug	8.34	8.30	8.30	8.30	8.22
2025	Sep	8.33	8.29	8.29	8.29	8.21

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Annual

Expected Case (Case #2)

Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	WA/ID
2025	Oct	8.37	8.32	8.32	8.32	8.25
	Avg.	8.77	8.70	8.75	8.75	8.64
2025	Nov	8.56	8.51	8.54	8.54	8.45
2025	Dec	9.39	9.23	9.49	9.49	9.23
2026	Jan	9.92	9.67	9.92	9.92	9.66
2026	Feb	9.78	9.67	9.78	9.79	9.66
2026	Mar	9.51	9.46	9.47	9.47	9.39
2026	Apr	8.35	8.31	8.31	8.31	8.24
2026	May	8.21	8.19	8.19	8.19	8.09
2026	Jun	8.26	8.22	8.22	8.22	8.14
2026	Jul	8.31	8.26	8.26	8.26	8.18
2026	Aug	8.34	8.30	8.30	8.30	8.22
2026	Sep	8.33	8.29	8.29	8.29	8.21
2026	Oct	8.37	8.32	8.32	8.32	8.25
	Avg.	8.78	8.70	8.76	8.76	8.64

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Winter

Expected Case (Case #2)

Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	WA/ID
2006	Nov	8.73	8.69	8.69	8.69	8.64
2006	Dec	9.16	9.04	9.16	9.04	9.01
2007	Jan	7.04	7.00	7.04	7.00	6.99
2007	Feb	7.05	7.00	7.04	7.00	6.98
2007	Mar	6.90	6.87	6.87	6.87	6.82
	Avg.	7.78	7.72	7.76	7.72	7.69
2007	Nov	6.35	6.32	6.33	6.32	6.29
2007	Dec	6.70	6.58	6.70	6.58	6.56
2008	Jan	6.64	6.59	6.64	6.59	6.58
2008	Feb	6.88	6.83	6.87	6.83	6.82
2008	Mar	6.52	6.50	6.50	6.50	6.45
	Avg.	6.62	6.56	6.61	6.56	6.54
2008	Nov	6.00	5.97	5.97	5.97	5.94
2008	Dec	6.36	6.21	6.36	6.23	6.19
2009	Jan	6.08	6.03	6.08	6.04	6.04
2009	Feb	6.09	6.05	6.09	6.05	6.03
2009	Mar	5.95	5.93	5.93	5.93	5.88
	Avg.	6.09	6.04	6.09	6.04	6.02
2009	Nov	5.47	5.45	5.46	5.45	5.42
2009	Dec	5.84	5.71	5.87	5.78	5.70
2010	Jan	5.87	5.82	5.87	5.82	5.81
2010	Feb	5.90	5.86	5.90	5.86	5.85
2010	Mar	5.76	5.73	5.73	5.73	5.70
	Avg.	5.77	5.72	5.77	5.73	5.70
2010	Nov	5.30	5.27	5.27	5.27	5.24
2010	Dec	5.65	5.55	5.65	5.65	5.56
2011	Jan	5.86	5.82	5.86	5.86	5.82
2011	Feb	5.90	5.87	5.89	5.89	5.86
2011	Mar	5.76	5.73	5.73	5.73	5.70
	Avg.	5.70	5.65	5.68	5.68	5.63
2011	Nov	5.30	5.27	5.27	5.27	5.24
2011	Dec	5.79	5.73	5.79	5.79	5.74
2012	Jan	6.07	6.03	6.07	6.07	6.03
2012	Feb	6.31	6.28	6.30	6.30	6.28
2012	Mar	5.95	5.93	5.93	5.93	5.88
	Avg.	5.88	5.85	5.87	5.87	5.83
2012	Nov	5.47	5.45	5.45	5.45	5.41
2012	Dec	5.84	5.73	5.84	5.84	5.72
2013	Jan	6.25	6.20	6.25	6.25	6.19
2013	Feb	6.29	6.25	6.29	6.29	6.25
2013	Mar	6.14	6.11	6.11	6.11	6.06
	Avg.	6.00	5.95	5.99	5.99	5.93
2013	Nov	5.65	5.62	5.62	5.62	5.58
2013	Dec	6.03	5.91	6.03	6.03	5.92
2014	Jan	6.45	6.39	6.45	6.45	6.39
2014	Feb	6.49	6.45	6.49	6.49	6.45
2014	Mar	6.34	6.30	6.30	6.30	6.25
	Avg.	6.19	6.13	6.18	6.18	6.12
2014	Nov	5.82	5.79	5.80	5.80	5.75

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Winter

Expected Case (Case #2)

Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	WA/ID
2014	Dec	6.33	6.26	6.33	6.33	6.27
2015	Jan	6.63	6.58	6.63	6.63	6.57
2015	Feb	6.66	6.61	6.66	6.66	6.61
2015	Mar	6.48	6.45	6.45	6.45	6.40
	Avg.	6.38	6.34	6.37	6.37	6.32
2015	Nov	5.96	5.93	5.93	5.93	5.89
2015	Dec	6.60	6.55	6.60	6.60	6.57
2016	Jan	7.04	6.98	7.04	7.04	6.97
2016	Feb	7.31	7.26	7.31	7.31	7.26
2016	Mar	6.86	6.82	6.82	6.82	6.78
	Avg.	6.75	6.71	6.74	6.74	6.69
2016	Nov	6.31	6.27	6.28	6.28	6.23
2016	Dec	6.73	6.61	6.73	6.73	6.60
2017	Jan	7.53	7.46	7.53	7.53	7.45
2017	Feb	7.58	7.53	7.58	7.58	7.52
2017	Mar	7.39	7.35	7.35	7.35	7.29
	Avg.	7.11	7.04	7.09	7.09	7.02
2017	Nov	6.79	6.75	6.76	6.76	6.70
2017	Dec	7.36	7.30	7.36	7.36	7.29
2018	Jan	7.91	7.84	7.91	7.91	7.83
2018	Feb	7.97	7.89	7.97	7.97	7.88
2018	Mar	7.77	7.73	7.73	7.73	7.66
	Avg.	7.56	7.50	7.55	7.55	7.47
2018	Nov	7.14	7.11	7.11	7.11	7.05
2018	Dec	7.77	7.69	7.77	7.77	7.68
2019	Jan	8.33	8.25	8.33	8.33	8.25
2019	Feb	8.37	8.30	8.37	8.37	8.30
2019	Mar	8.16	8.10	8.10	8.10	8.05
	Avg.	7.95	7.89	7.94	7.94	7.87
2019	Nov	7.49	7.45	7.46	7.46	7.40
2019	Dec	8.15	8.09	8.15	8.15	8.09
2020	Jan	8.79	8.67	8.79	8.79	8.67
2020	Feb	9.07	8.99	9.07	9.07	8.99
2020	Mar	8.54	8.49	8.49	8.49	8.43
	Avg.	8.41	8.34	8.39	8.39	8.31
2020	Nov	7.85	7.80	7.81	7.81	7.75
2020	Dec	8.54	8.48	8.55	8.55	8.49
2021	Jan	8.96	8.87	8.96	8.96	8.86
2021	Feb	8.95	8.87	8.95	8.95	8.87
2021	Mar	8.72	8.67	8.68	8.67	8.61
	Avg.	8.60	8.54	8.59	8.59	8.52
2021	Nov	8.02	7.97	7.98	7.98	7.93
2021	Dec	8.73	8.67	8.74	8.75	8.68
2022	Jan	9.16	9.06	9.16	9.16	9.05
2022	Feb	9.15	9.07	9.15	9.15	9.07
2022	Mar	8.92	8.87	8.87	8.87	8.80
	Avg.	8.80	8.73	8.78	8.78	8.71
2022	Nov	8.20	8.16	8.17	8.17	8.10
2022	Dec	8.91	8.75	8.91	8.91	8.73

Appendix 7.1 - SENDOUT® Marginal Cost Determination by Region - Winter

Expected Case (Case #2)

Figures Include Transportation and Storage, Excludes Environmental Externalities - Nominal \$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	WA/ID
2023	Jan	9.31	9.19	9.31	9.31	9.19
2023	Feb	9.34	9.27	9.34	9.35	9.26
2023	Mar	9.11	9.06	9.06	9.06	9.00
	Avg.	8.97	8.89	8.96	8.96	8.85
2023	Nov	8.37	8.33	8.36	8.35	8.27
2023	Dec	9.15	8.95	9.19	9.19	8.94
2024	Jan	9.66	9.44	9.66	9.66	9.43
2024	Feb	9.89	9.80	9.89	9.90	9.79
2024	Mar	9.31	9.26	9.26	9.26	9.19
	Avg.	9.28	9.16	9.27	9.28	9.12
2024	Nov	8.56	8.51	8.54	8.54	8.45
2024	Dec	9.36	9.21	9.42	9.42	9.20
2025	Jan	9.92	9.67	9.92	9.92	9.66
2025	Feb	9.77	9.67	9.77	9.78	9.66
2025	Mar	9.51	9.46	9.46	9.46	9.39
	Avg.	9.42	9.30	9.42	9.42	9.27
2025	Nov	8.56	8.51	8.54	8.54	8.45
2025	Dec	9.39	9.23	9.49	9.49	9.23
2026	Jan	9.92	9.67	9.92	9.92	9.66
2026	Feb	9.78	9.67	9.78	9.79	9.66
2026	Mar	9.51	9.46	9.47	9.47	9.39
	Avg.	9.43	9.31	9.44	9.44	9.28