AVISTA Utilities

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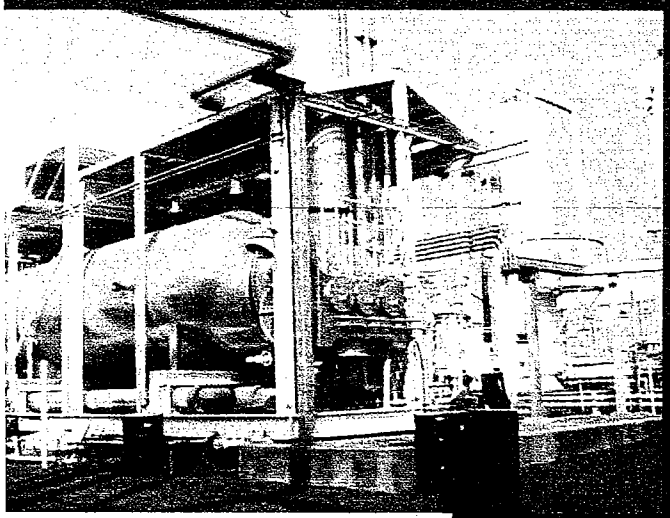
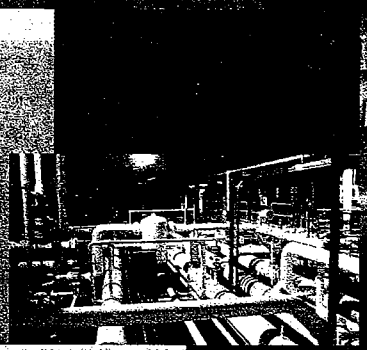
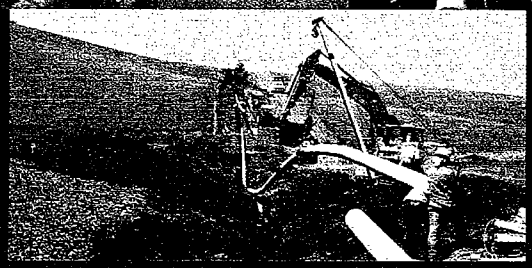


2006 NATURAL GAS INTEGRATED RESOURCE PLAN APPENDICES





MARCH 31, 2006

AVISTA UTILITIES
2006 NATURAL GAS
INTEGRATED RESOURCE PLAN
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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.

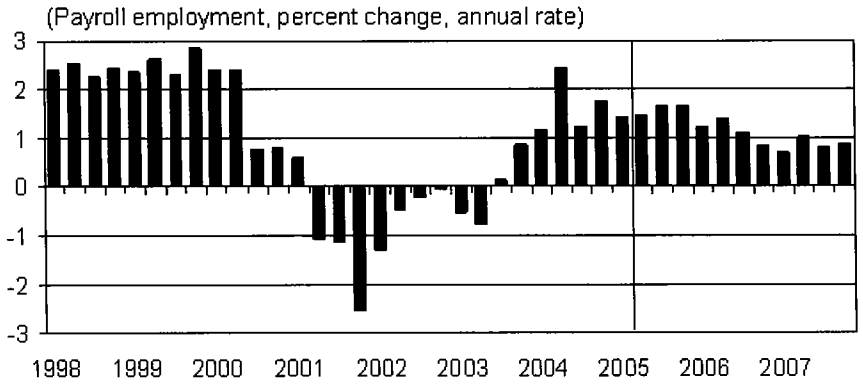
National Economic Outlook

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.

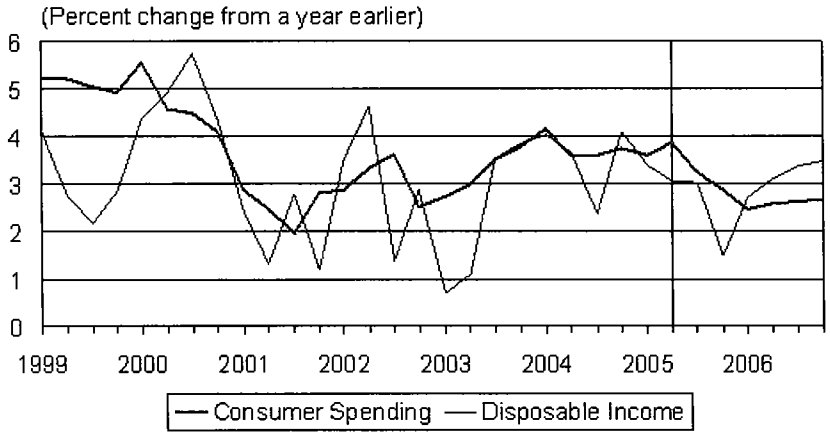
The following chart shows the quarterly payroll employment as percent changes, at annual rates from 1998 to 2007, as of early 2005. Employers have taken the Alan Greenspan approach to hiring, adding workers at a "measured pace." Other than the residential construction sector, this timid hiring practice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

Employment Has Improved — But Not Like The Last Cycle



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



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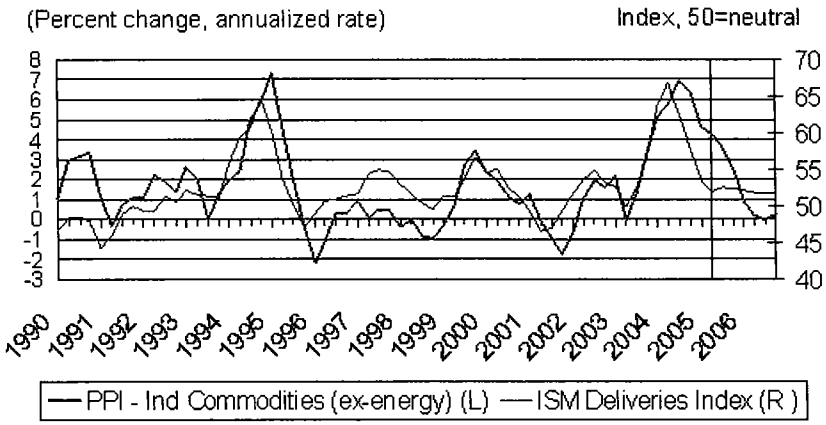
There is an improved picture with respect to commodities inflation, which excludes the impact of hurricanes in the fall of 2005. Eventually, commodity prices end up in final goods.

Commodities Inflation Has Peaked...



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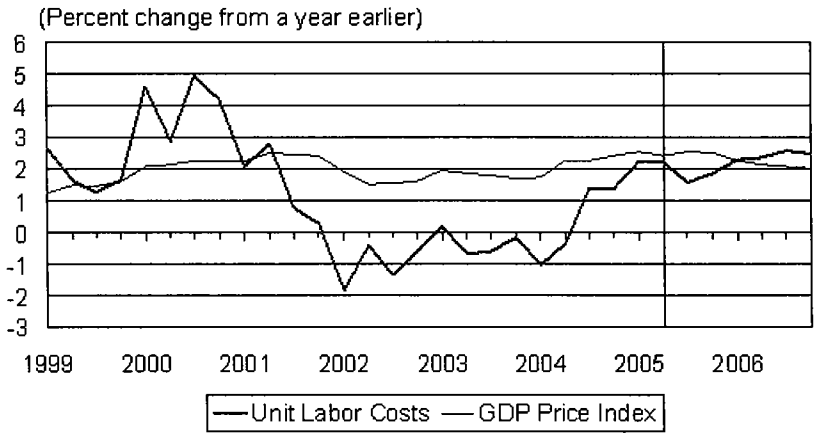
Unit labor costs have declined during the brief recession in 2001, but the picture has changed.

...But Unit Labor Costs Are No Longer Declining



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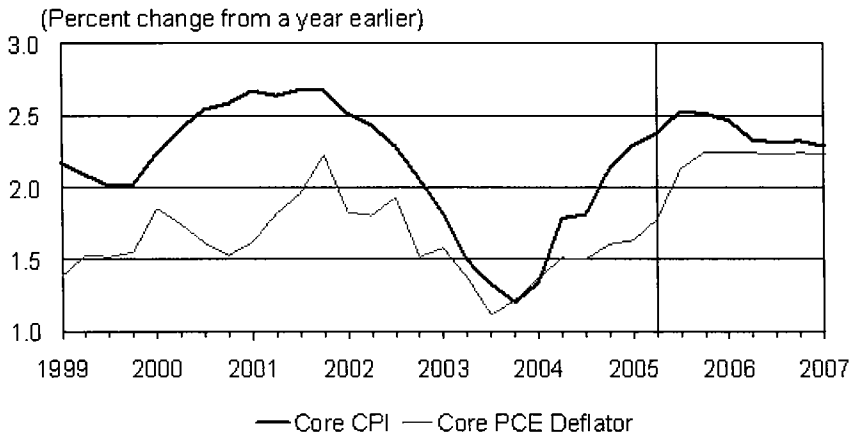
Commodities inflation and unit labor costs lead to changes in the core Consumer Price Index (CPI) and core PCE deflator (Personal Consumption Expenditure).

Core Inflation Has Risen



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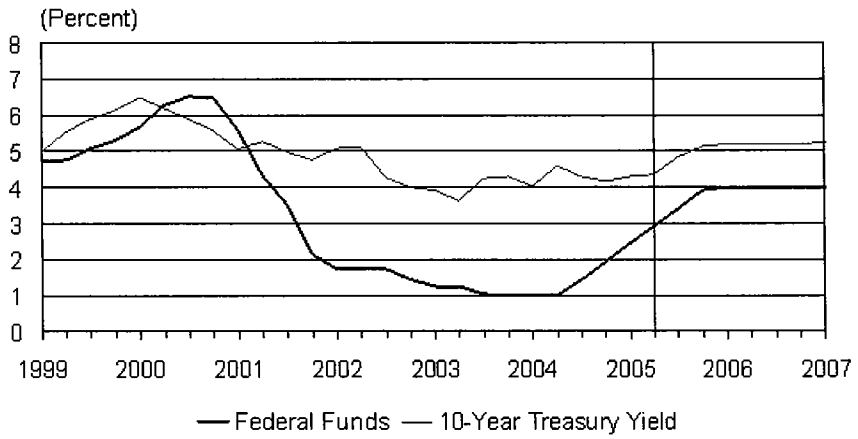
And finally, changes in core inflation inevitably lead to higher interest rates, as the Federal Reserve responds with raising interest rates to tame rising prices.

The Fed Has More Work to Do



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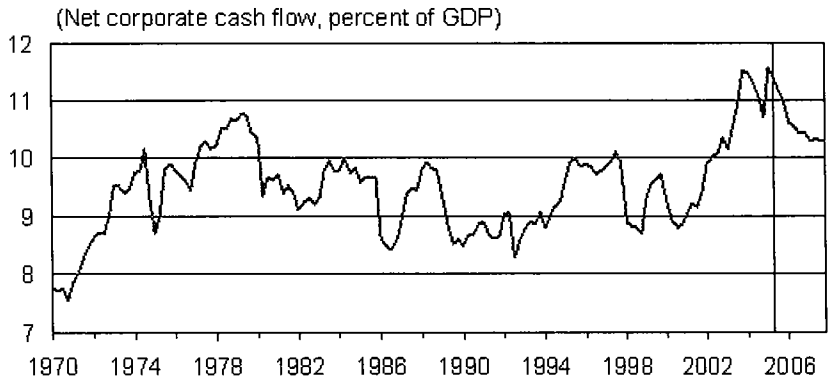
As the business cycle moves forward, the typical improvements in corporate cash flow are revealed in the next graphic.

Corporate Cash Flow Is at Record Levels



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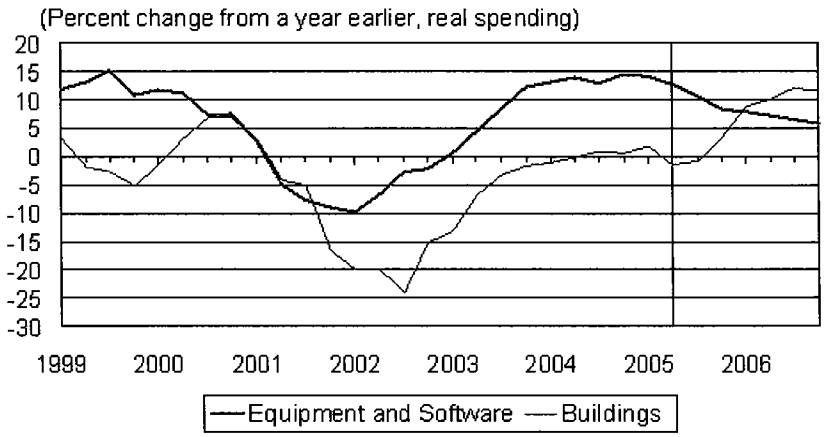
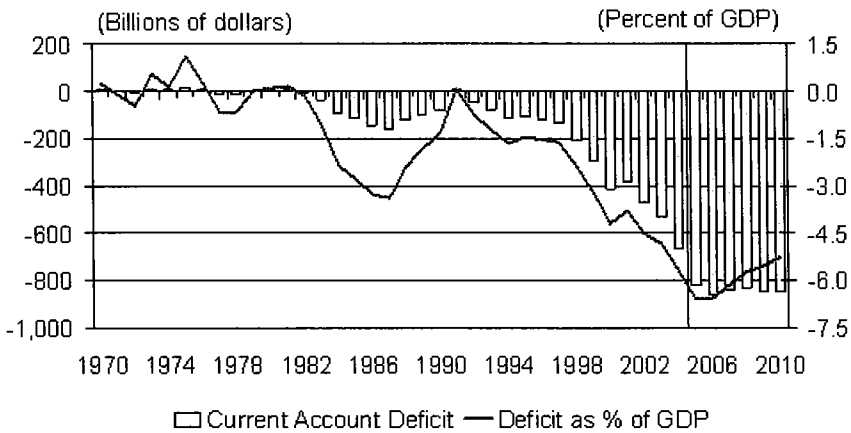
Business investment is one of the final phases in driving the post-recession expansion forward, best illustrated by business capital spending. Equipment and software investment typically rebound sooner than building investment. The next graph predicts real spending changes from the prior year.

The Business Capital Spending Cycle



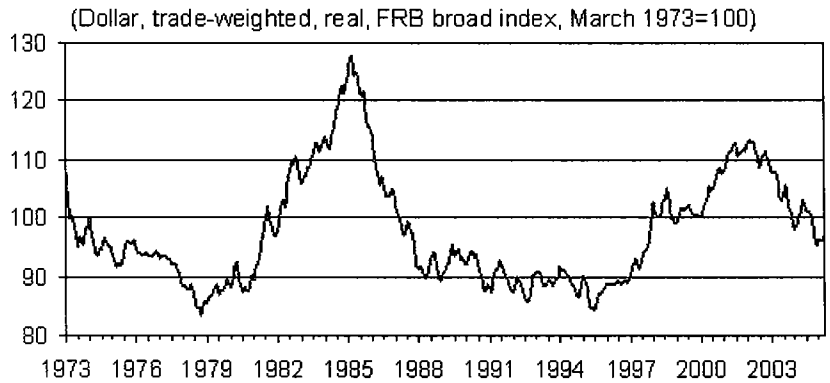
The nation's current account deficit is the net result of imports and exports. A current account surplus occurs when the U.S. exports more than it imports. The chart indicates recent history and forecasts continued large current account deficits.

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



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



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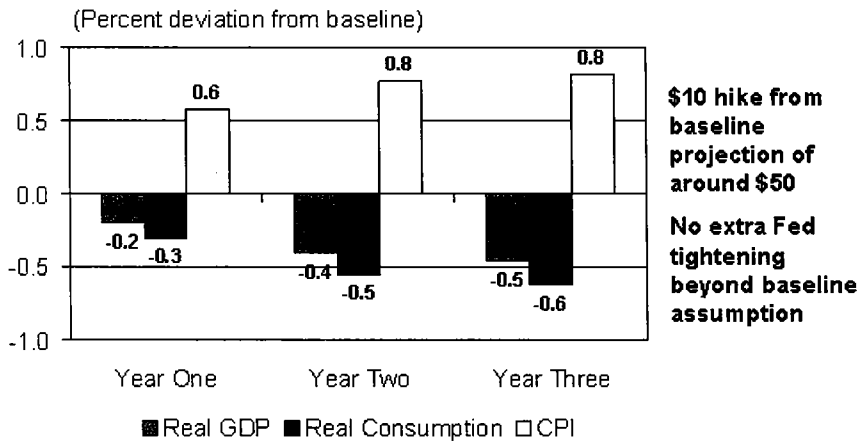
As discussed at the TAC meeting in October 2005, oil prices have jumped considerably. The next four charts were used to address some of the obvious concerns. The discussion during this part of the presentation was helpful in scenario determination. This chart was particularly useful as a marginal impact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

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



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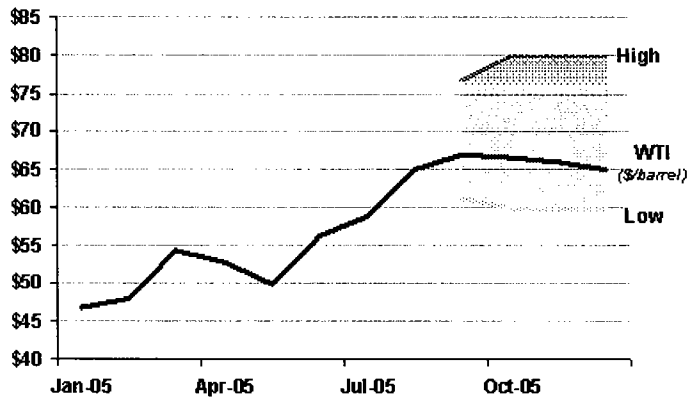
Global Insight had prepared some sensitivity analyses, and used the following to illustrate the range of West Texas Intermediate (WTI) oil prices.

WTI: Price Range in $/Barrel



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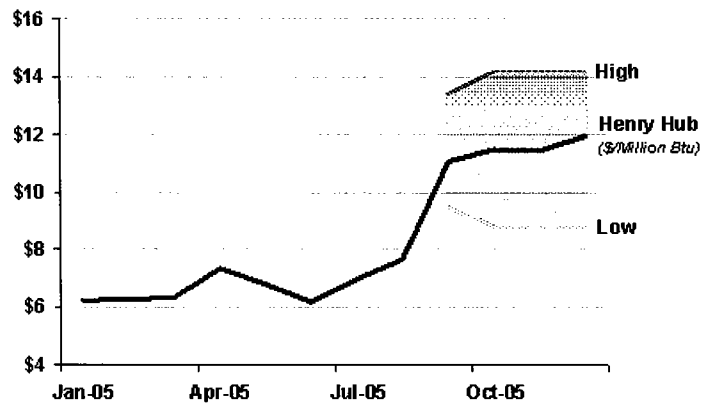
Oil prices and natural gas prices have a relationship, and the following chart illustrates uncertainty ranges expected by Global Insight in the Henry Hub Index.

Henry Hub Index: Price Range in $/Million BTU



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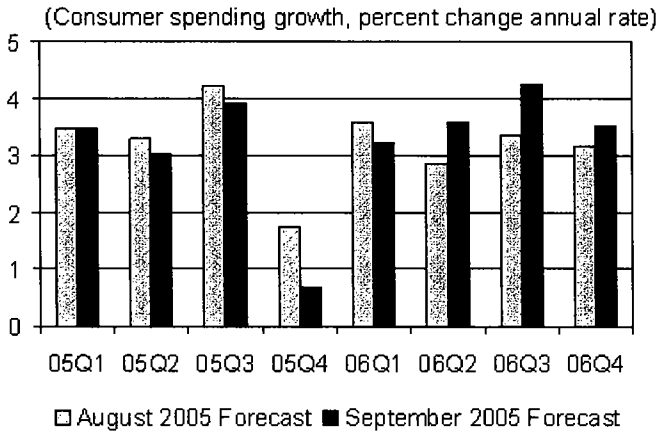
Additionally, concerns were noted by Global Insight that higher gasoline prices could dampen consumer-spending growth, as shown below.

Gasoline Prices Dampen Consumer Spending Growth



Every $0.10 on the price of gasoline is like a tax hike of 0.13% of disposable income.

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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**

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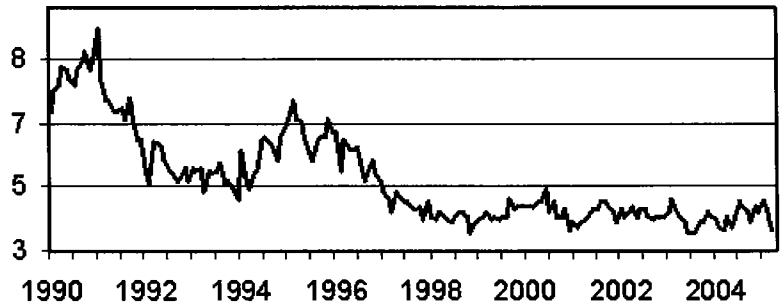
Nationally, housing inventories for new single-family homes are at low levels.

Inventories are Lean

Months Supply of New One Family Homes
(Months)



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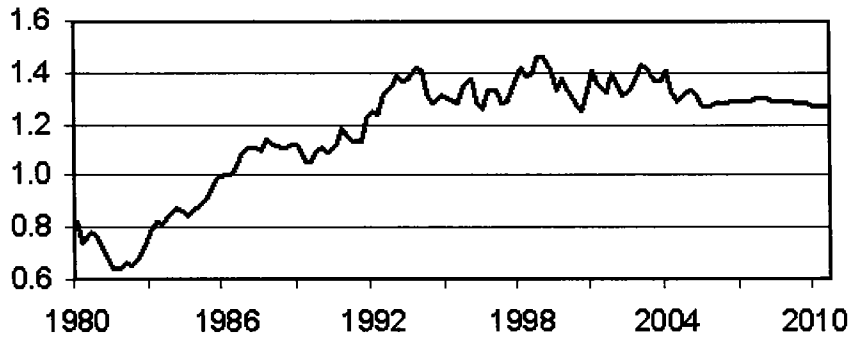
In most markets in the United States, single-family homes are affordable.

Houses Remain Affordable

Single-family Home Affordability Index



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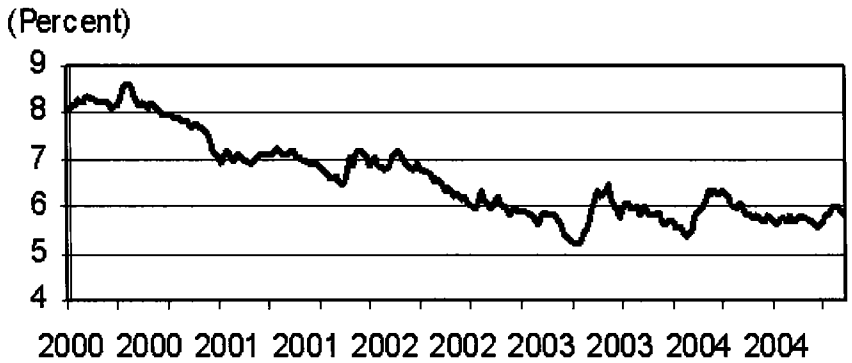
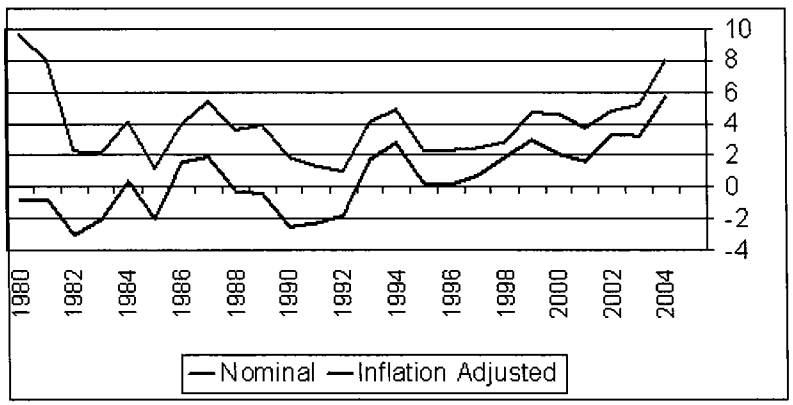
Mortgage rates throughout most of 2005 have remained low.

Mortgage Rates Remain Low



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

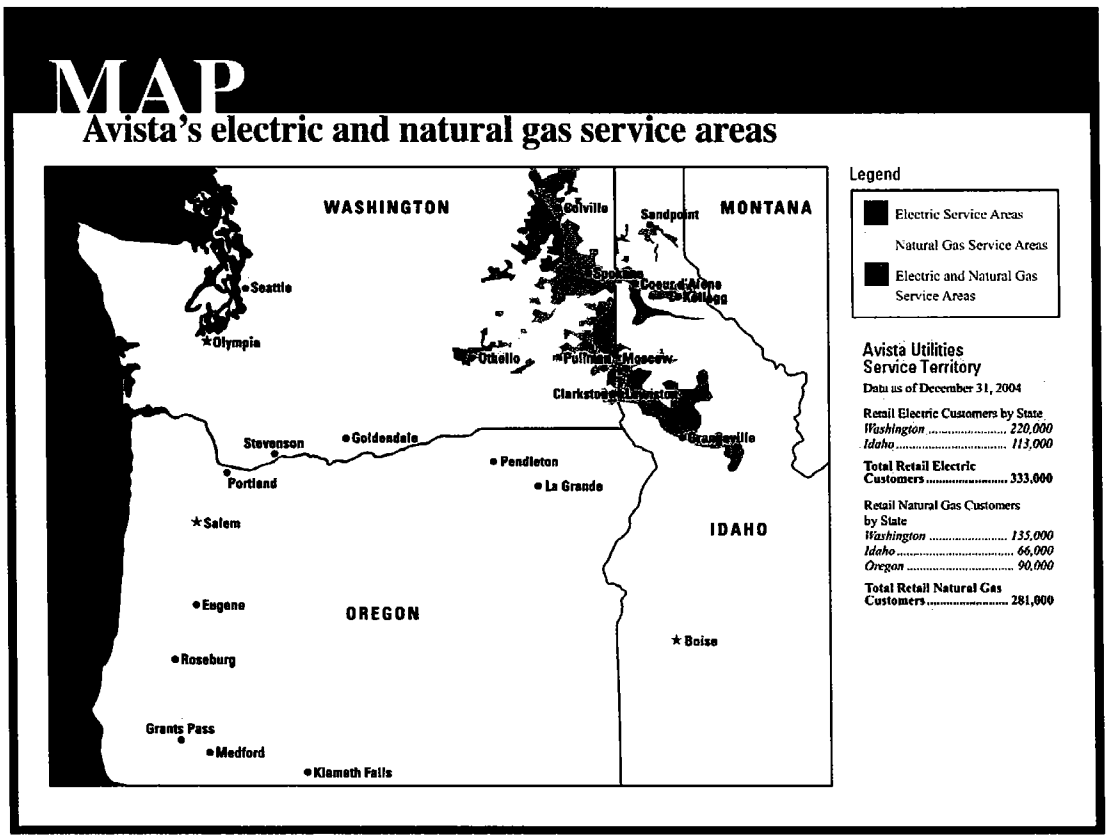


This concludes a condensed version of Global Insight, Inc.'s national economic forecast used as the basis for Avista's regional economic outlook. The purpose of including it in this appendix is to frame the economic situation that existed when the base case customer forecast was prepared.

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.

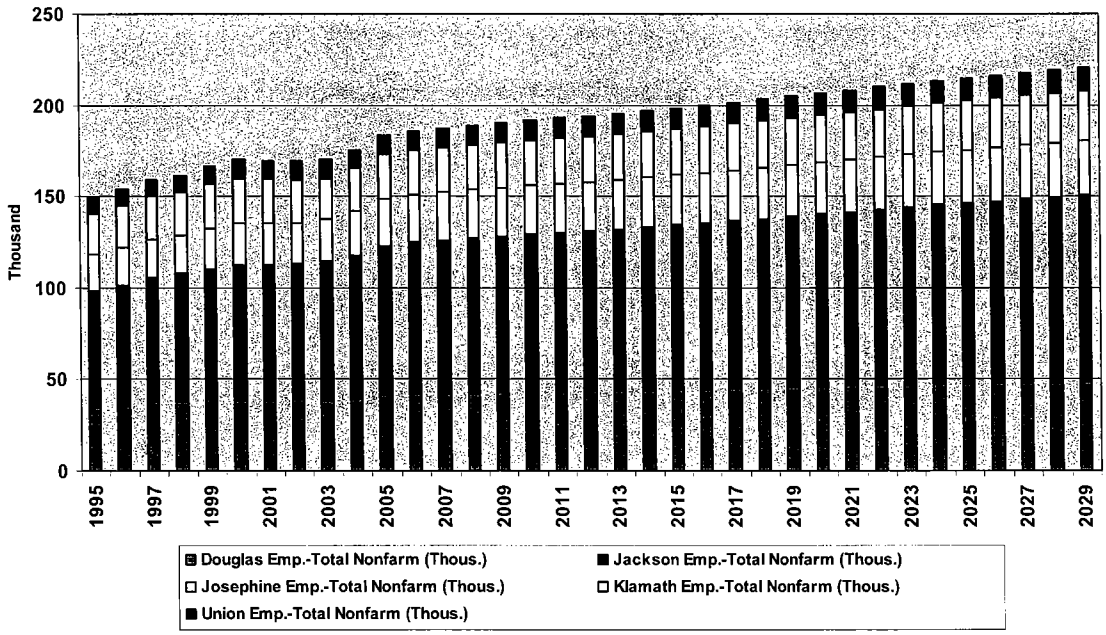
Overall, the results of the economic forecasts suggest the following impacts on Avista's customer growth: Near term the strength in the construction boom will be mirrored by strong customer growth, while longer term underlying employment and population growth will drive customer growth.

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).

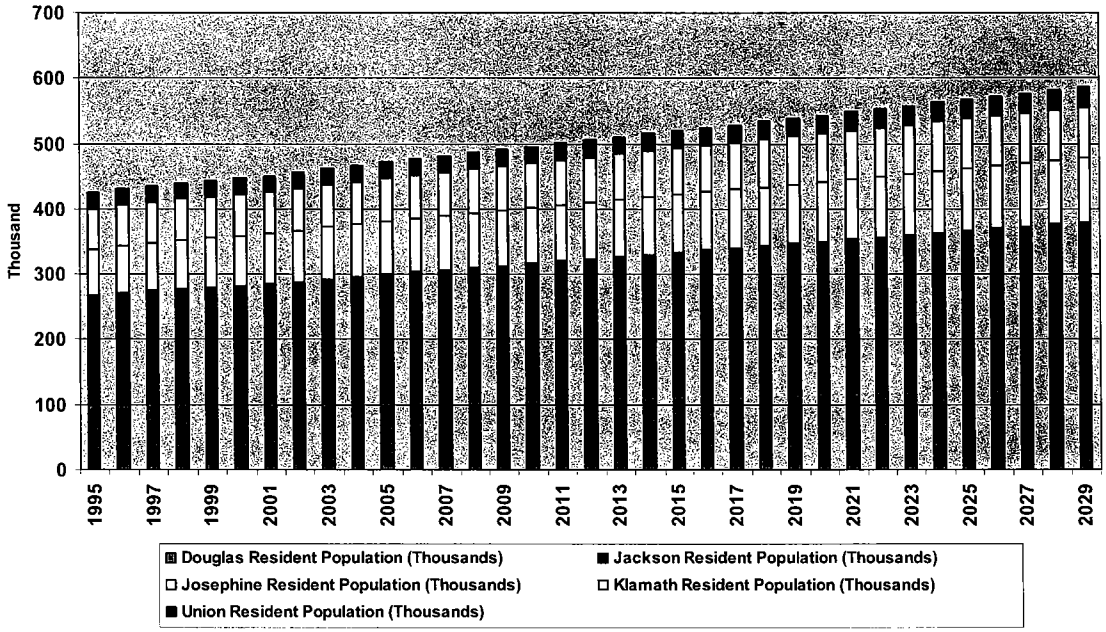
We start by reporting economic forecasts for Oregon. First is employment.

Oregon Employment



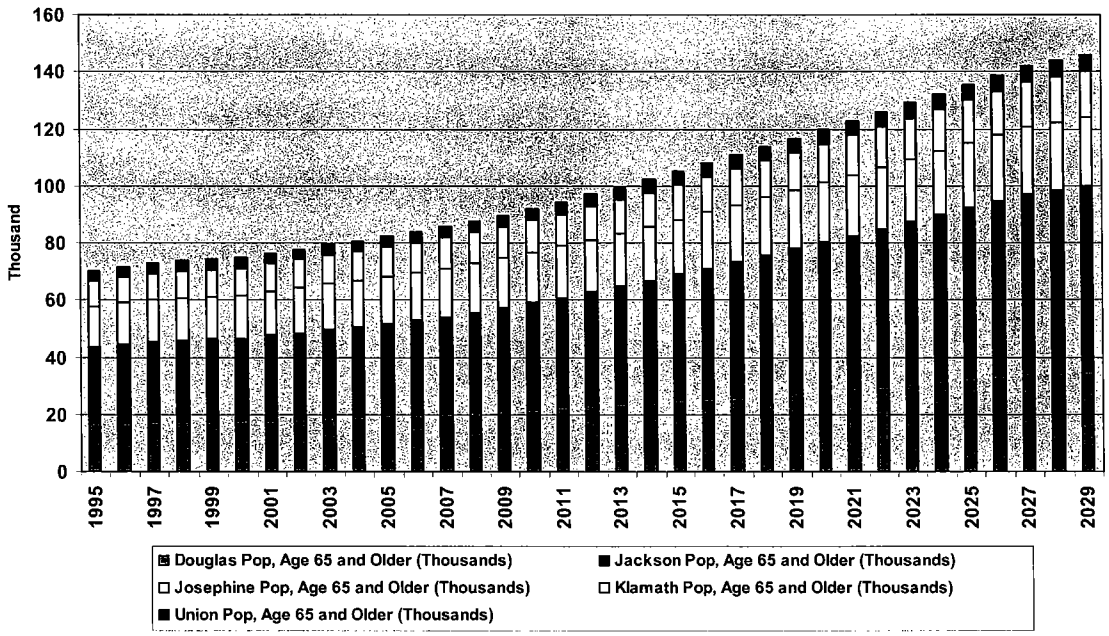
Next is Oregon resident population.

Oregon Resident Population



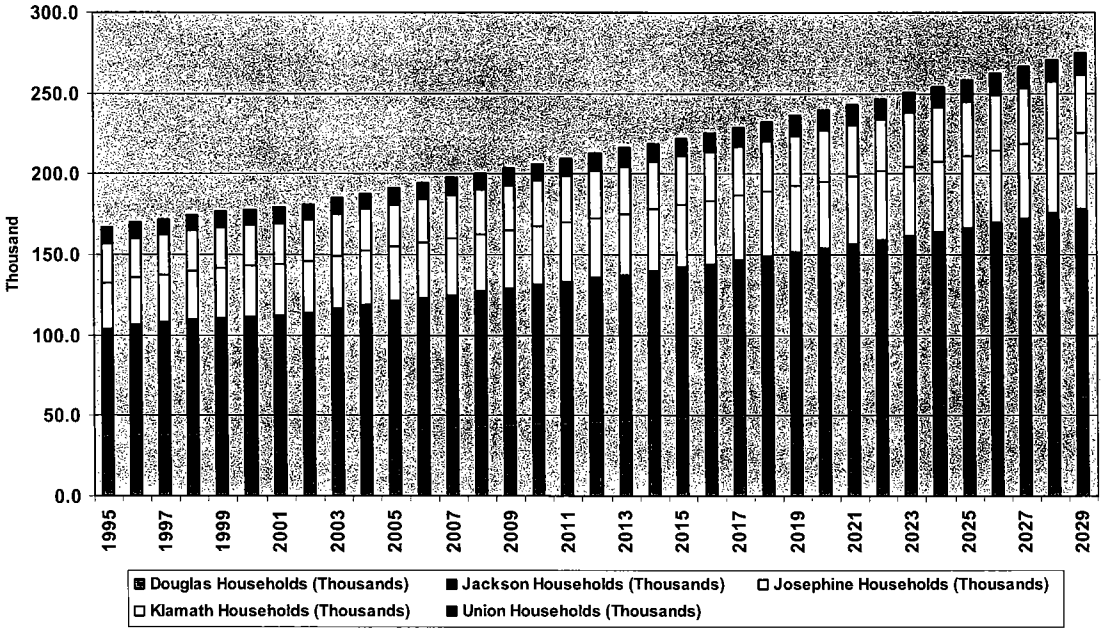
Oregon population age 65 and older grows rapidly during the forecast.

Oregon Population Age 65 and Older



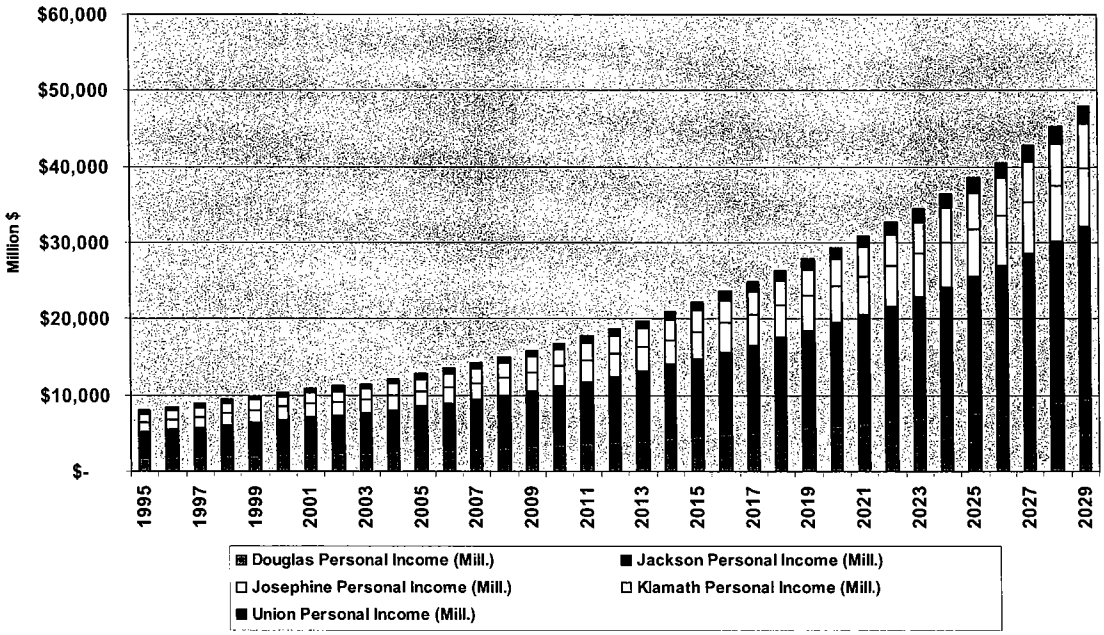
Oregon household growth is impacted by strong employment growth, retirement relocation and smaller household size as a larger proportion of elderly occurs.

Oregon Households



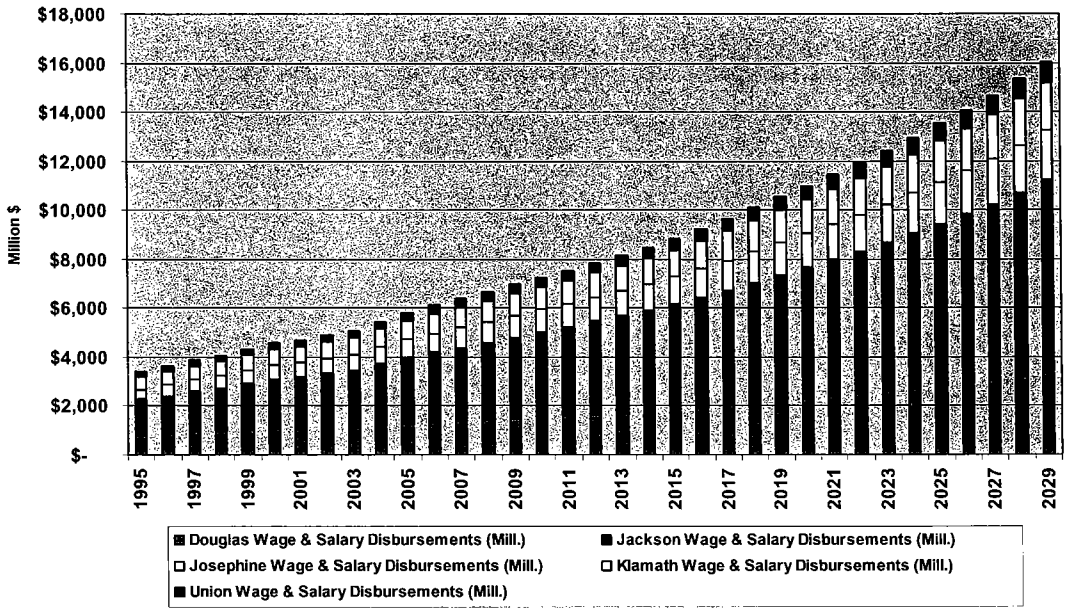
Oregon personal income is shown in nominal dollars in total.

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	1995-2005 CGR	2005-2025 CGR
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	1995-2005 CGR	2005-2025 CGR
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	1995-2005 CGR	2005-2025 CGR
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%

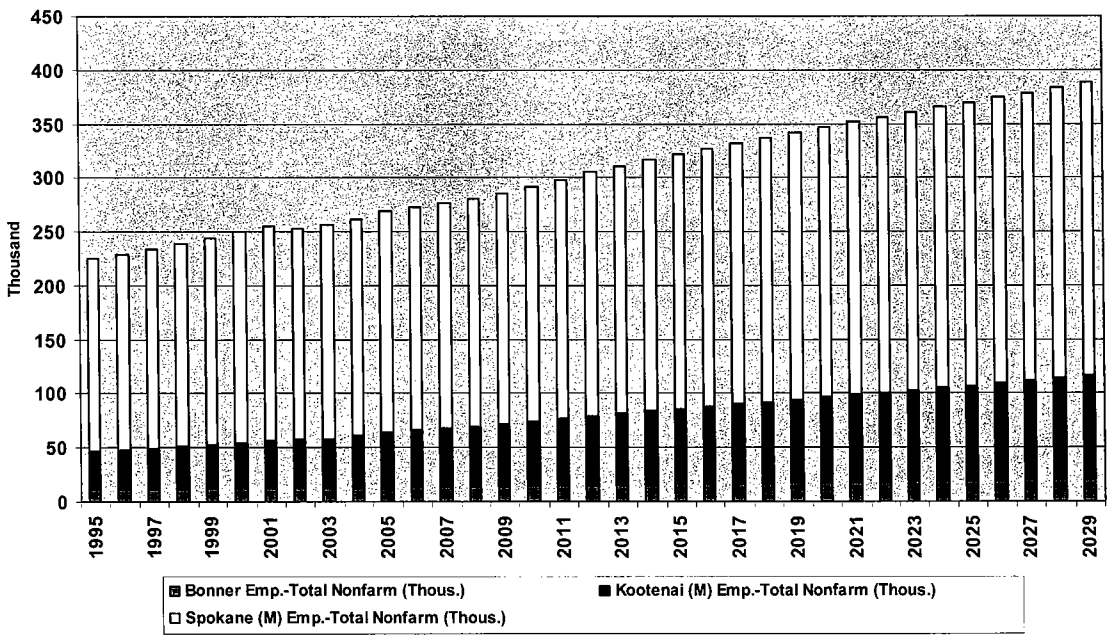
Klamath County, OR	1995-2005 CGR	2005-2025 CGR
Klamath Emp.-Total Nonfarm (Thous.)	0.8%	0.6%
Klamath Resident Population (Thousands)	0.7%	0.7%
Klamath Pop, Age 65 and Older (Thousands)	1.3%	2.0%
Klamath Households (Thousands)	1.0%	1.2%
Klamath Personal Income (Mill.)	4.2%	5.4%
Klamath Wage & Salary Disbursements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

Union County, OR	1995-2005 CGR	2005-2025 CGR
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.

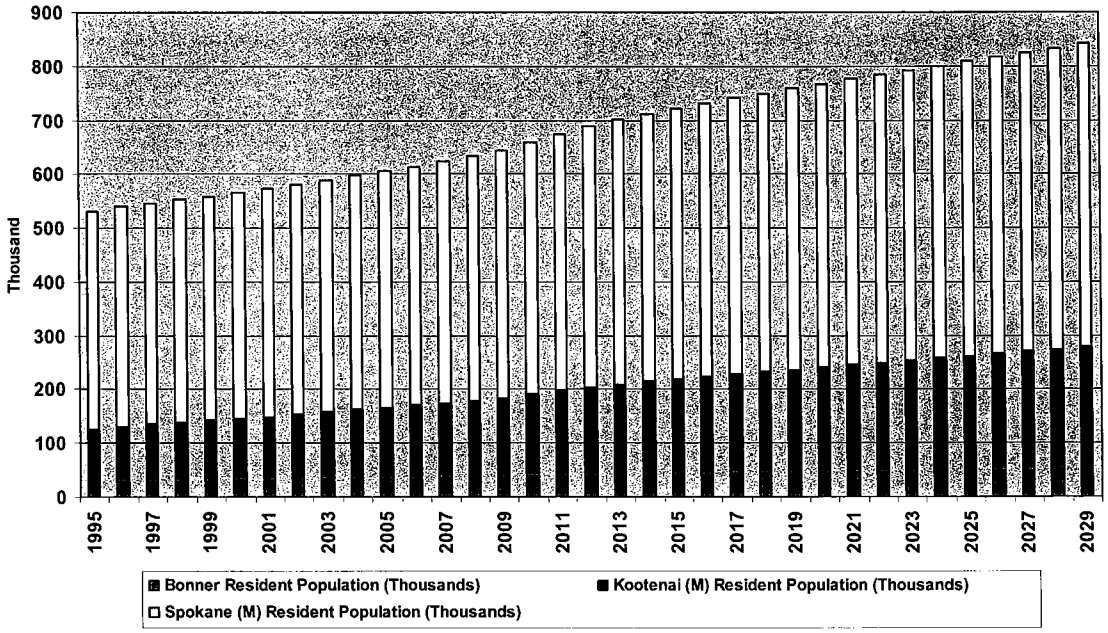
Idaho and Washington historical and forecasted data follows in the same format for the three primary counties. The first is employment for nonfarm workers.

Idaho & Washington Employment



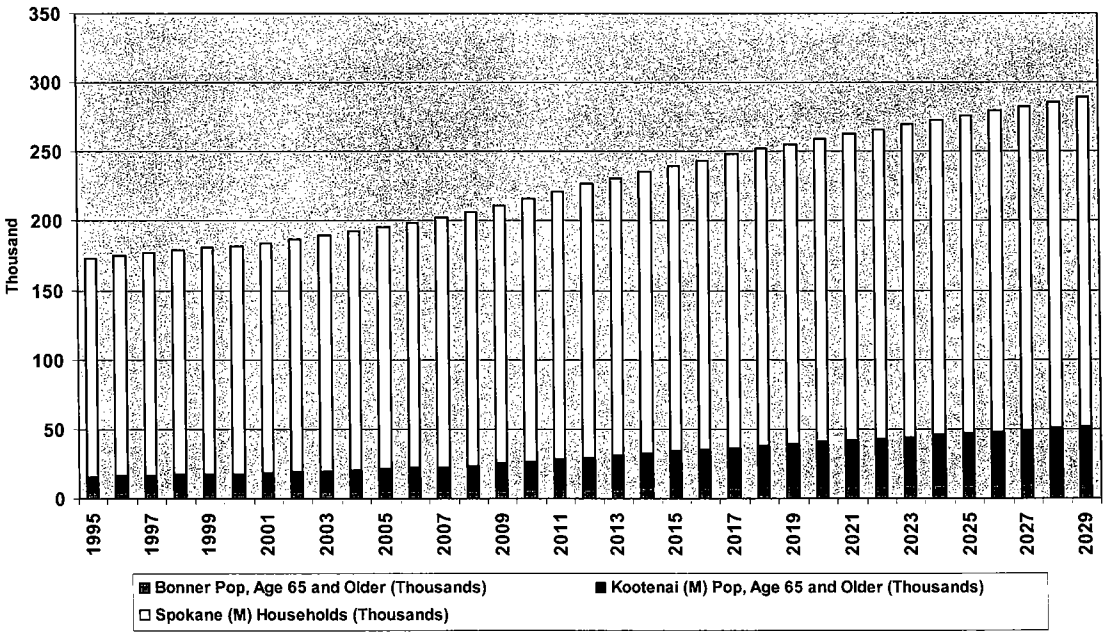
Next is resident population for the three counties. In both the employment and population charts, Spokane County is the larger, with Kootenai growing fastest.

Idaho & Washington Population



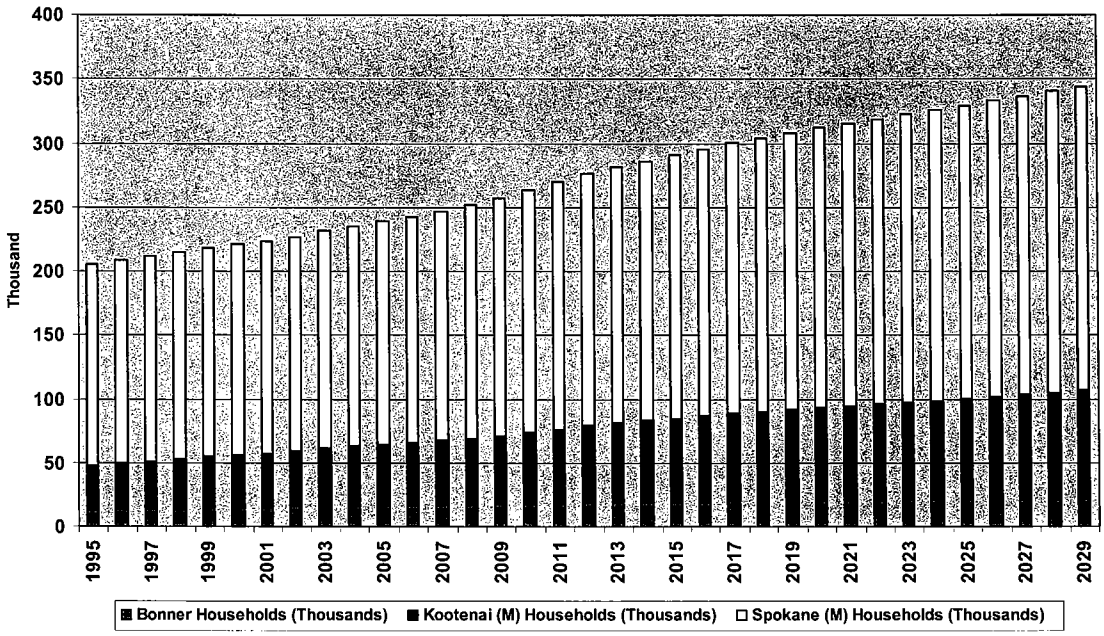
Spokane County has a significant population over 65 years of age, and the prevalence of these residents remain over the forecast period, which results in slightly faster customer growth.

Idaho & Washington Age 65 & Over



Household growth remains strong during the next twenty years.

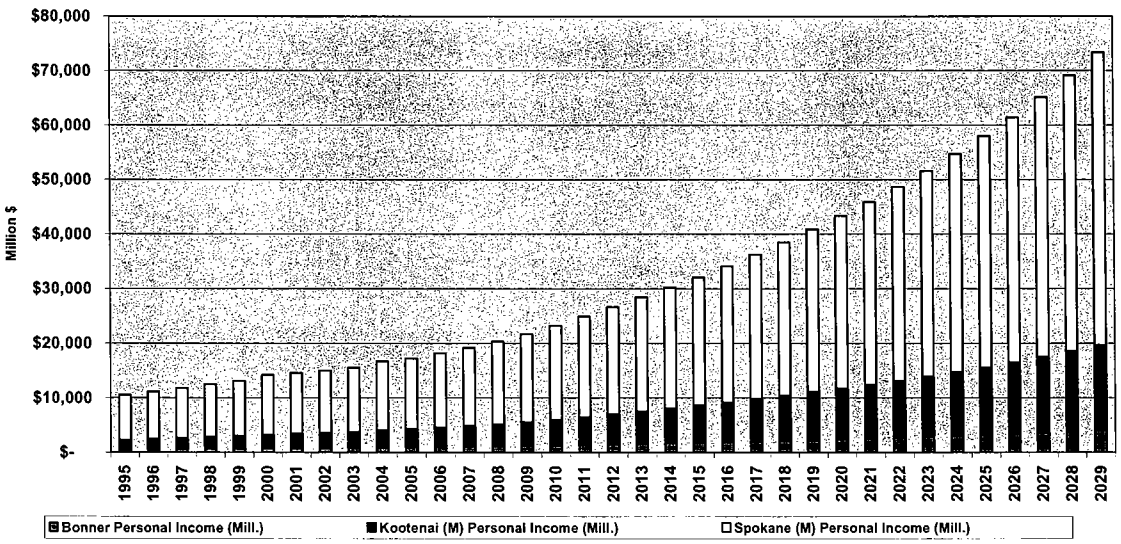
Idaho & Washington Households



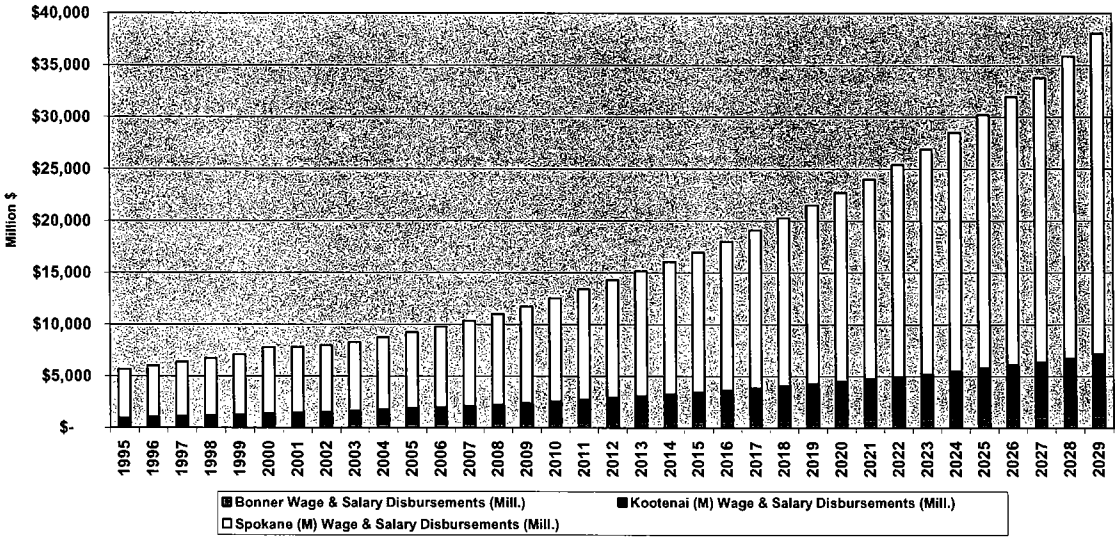
The two income figures below illustrate the largest difference between the Oregon economies and the Washington/Idaho economies.

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	1995-2005 CGR	2005-2025 CGR
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%

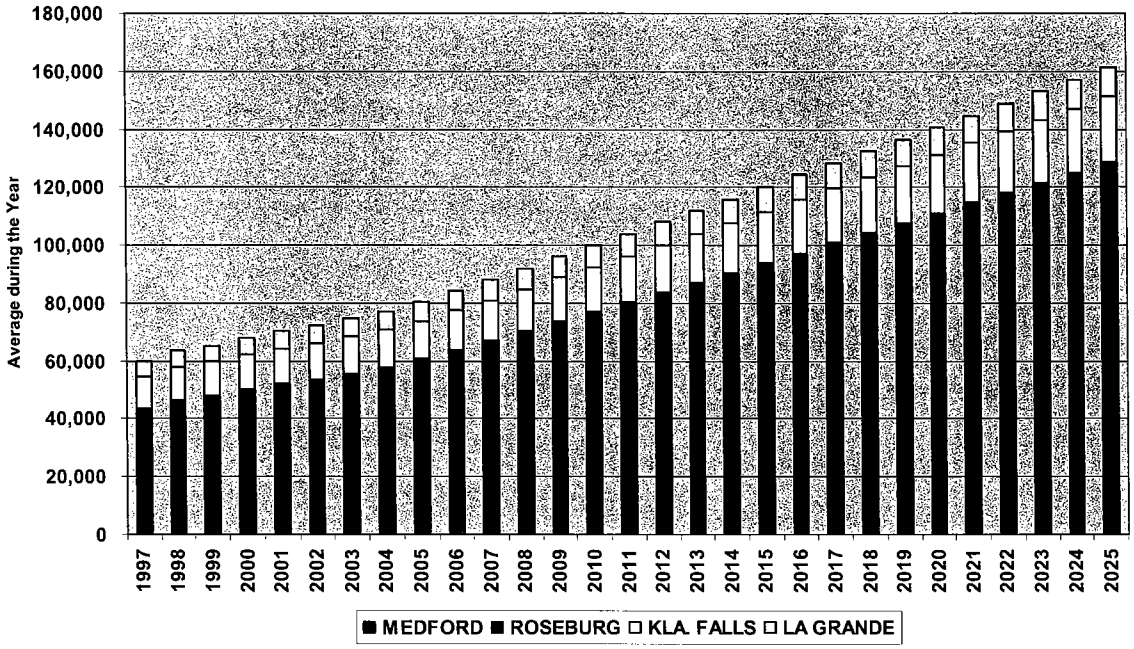
Kootenai County, ID	1995-2005 CGR	2005-2025 CGR
Kootenai (M) Emp.-Total Nonfarm (Thous.)	3.7%	2.7%
Kootenai (M) Resident Population (Thousands)	3.1%	2.5%
Kootenai (M) Pop, Age 65 and Older (Thousands)	3.3%	4.3%
Kootenai (M) Households (Thousands)	3.3%	2.5%
Kootenai (M) Personal Income (Mill.)	6.5%	6.7%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

Spokane County WA	1995-2005 CGR	2005-2025 CGR
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%

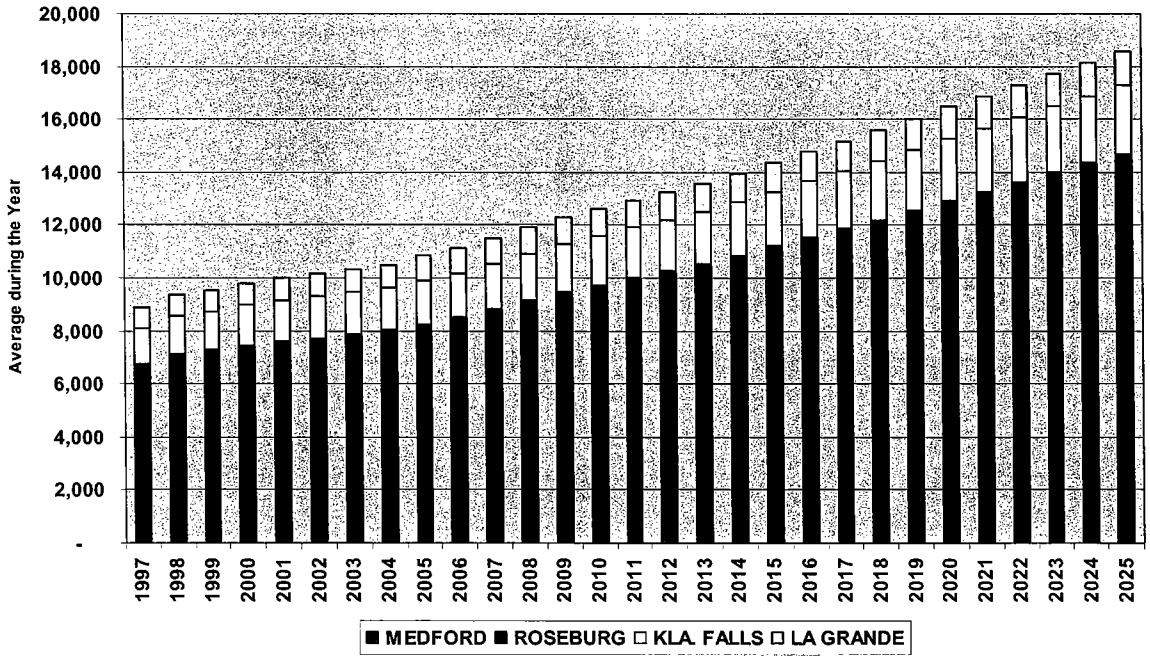
Oregon Customer Forecast

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

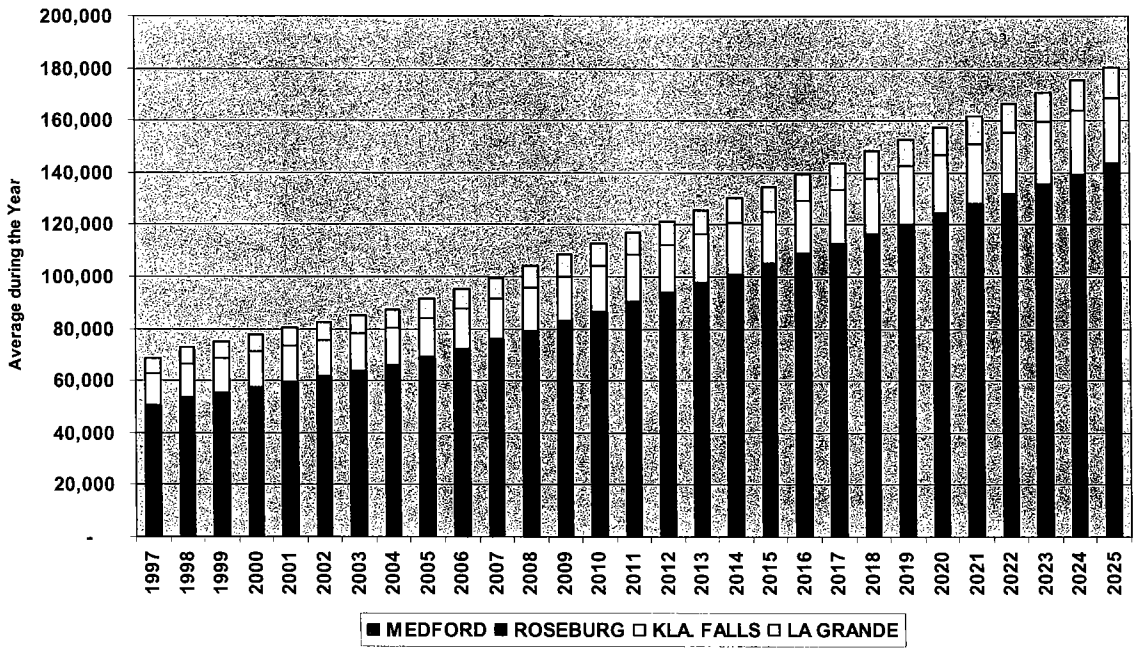


Oregon Commercial Customers



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.

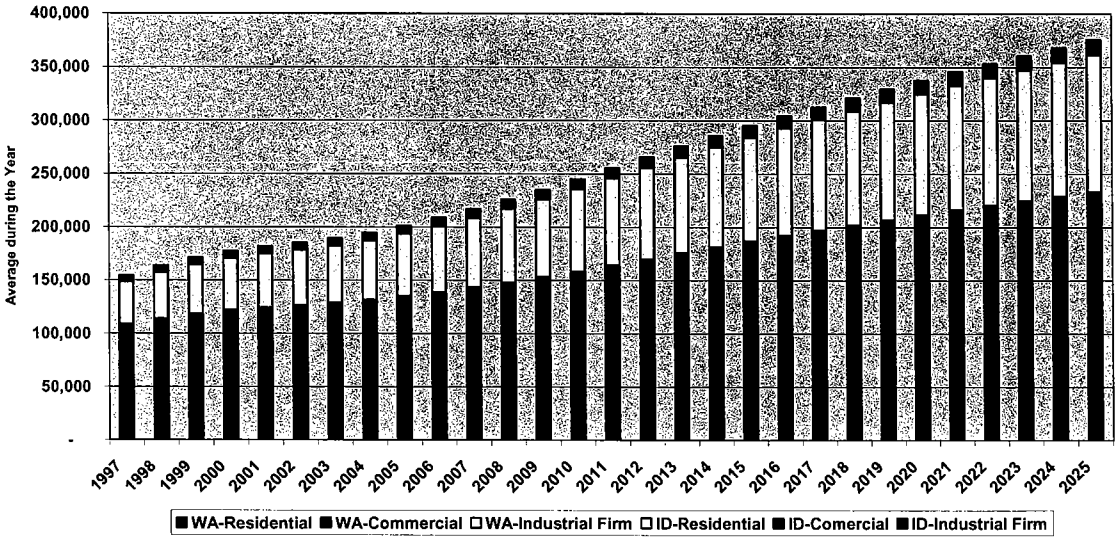
Oregon Total Customers



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



Appendix 2.2 - Customer Forecast - Number by Region

Base Case (Utilized in Cases#1, #2 & #3)

	WA/ID			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	190,447	21,775	271	51,728	6,378	0	13,312	2,203	2	13,899	1,682	0	6,815	963	6
Dec-06	191,163	21,837	272	52,295	6,393	0	13,514	2,225	2	14,109	1,691	0	6,878	966	1
Jan-07	192,042	21,978	275	52,480	6,461	0	13,619	2,228	2	14,208	1,704	0	6,933	969	2
Feb-07	192,093	22,048	274	52,615	6,491	0	13,656	2,262	2	14,234	1,706	0	6,939	973	3
Mar-07	192,347	22,028	271	52,581	6,507	0	13,658	2,248	2	14,212	1,704	0	6,933	976	2
Apr-07	192,568	22,062	271	52,585	6,535	0	13,668	2,240	2	14,197	1,701	0	6,879	978	2
May-07	192,405	22,024	269	52,657	6,548	0	13,544	2,244	2	14,157	1,690	0	6,882	980	2
Jun-07	192,811	22,058	272	52,486	6,565	0	13,516	2,240	2	14,016	1,691	0	6,837	972	2
Jul-07	193,822	22,253	274	54,980	6,580	0	13,446	2,241	2	13,962	1,689	0	6,866	972	3
Aug-07	194,483	22,386	275	52,721	6,592	0	13,452	2,248	2	13,902	1,699	0	6,808	973	3
Sep-07	195,544	22,403	278	53,141	6,608	0	13,469	2,257	2	13,948	1,706	0	6,818	975	7
Oct-07	196,695	22,499	276	53,758	6,620	0	13,683	2,268	2	14,170	1,720	0	6,945	976	7
Nov-07	198,053	22,611	276	54,328	6,628	0	13,912	2,278	2	14,399	1,727	0	6,990	978	6
Dec-07	198,769	22,673	277	54,895	6,643	0	14,164	2,300	2	14,609	1,736	0	7,053	981	1
Jan-08	200,238	22,831	280	55,013	6,706	0	14,332	2,312	2	14,706	1,752	0	7,132	988	2
Feb-08	200,293	22,906	278	55,162	6,738	0	14,373	2,349	2	14,734	1,754	0	7,139	992	3
Mar-08	200,460	22,885	275	55,124	6,756	0	14,320	2,334	2	14,710	1,752	0	7,132	996	2
Apr-08	200,699	22,922	275	55,129	6,786	0	14,386	2,325	2	14,694	1,749	0	7,075	998	2
May-08	200,414	22,881	273	55,208	6,800	0	14,304	2,329	2	14,651	1,738	0	7,079	1,000	2
Jun-08	200,854	22,917	276	55,020	6,818	0	14,218	2,325	2	14,500	1,739	0	7,031	991	2
Jul-08	201,839	23,101	280	57,770	6,834	0	14,141	2,326	2	14,442	1,736	0	7,062	991	3
Aug-08	202,446	23,244	281	55,279	6,847	0	14,148	2,334	2	14,378	1,747	0	7,000	992	3
Sep-08	203,377	23,262	284	55,742	6,865	0	14,167	2,343	2	14,427	1,754	0	7,011	995	7
Oct-08	204,514	23,366	282	56,422	6,878	0	14,402	2,355	2	14,665	1,769	0	7,145	996	7
Nov-08	205,982	23,487	282	57,051	6,886	0	14,654	2,366	2	14,911	1,777	0	7,193	998	6
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	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	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	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	2
Apr-09	209,151	23,776	279	57,719	7,013	0	15,173	2,397	2	15,195	1,796	0	7,276	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	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	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	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	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	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	7
Nov-09	214,657	24,363	286	59,732	7,117	0	15,457	2,439	2	15,419	1,824	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	7,465	1,018	1
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	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	3
Mar-10	217,839	24,591	285	60,187	7,187	0	15,867	2,479	2	15,684	1,846	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	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	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	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	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	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	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	7
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	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	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	2
Feb-11	227,084	25,437	293	62,717	7,368	0	16,713	2,560	2	16,134	1,885	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	2
Apr-11	227,544	25,453	290	62,679	7,420	0	16,729	2,534	2	16,090	1,880	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	2

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

	WA/ID			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.
Jun-11	227,719	25,449	291	62,555	7,455	0	16,534	2,534	2	15,878	1,868	0	7,611	1,045	2
Jul-11	228,836	25,652	295	65,683	7,473	0	16,444	2,536	2	15,814	1,866	0	7,644	1,045	3
Aug-11	229,524	25,812	296	62,850	7,487	0	16,452	2,544	2	15,744	1,877	0	7,578	1,046	3
Sep-11	230,580	25,832	299	63,377	7,506	0	16,474	2,554	2	15,798	1,885	0	7,589	1,049	7
Oct-11	231,869	25,947	297	64,150	7,520	0	16,748	2,567	2	16,058	1,901	0	7,734	1,050	7
Nov-11	233,534	26,081	297	64,865	7,529	0	17,041	2,579	2	16,327	1,909	0	7,786	1,052	6
Dec-11	234,412	26,155	298	65,576	7,547	0	17,300	2,605	2	16,574	1,919	0	7,858	1,055	1
Jan-12	236,443	26,174	299	65,092	7,515	0	17,465	2,585	2	16,537	1,916	0	7,915	1,059	2
Feb-12	236,508	26,260	297	65,268	7,551	0	17,514	2,626	2	16,569	1,918	0	7,922	1,063	3
Mar-12	236,705	26,235	294	65,224	7,570	0	17,450	2,609	2	16,542	1,916	0	7,915	1,067	2
Apr-12	236,987	26,278	294	65,229	7,604	0	17,531	2,600	2	16,524	1,913	0	7,852	1,069	2
May-12	236,651	26,231	292	65,323	7,620	0	17,431	2,605	2	16,476	1,900	0	7,855	1,071	2
Jun-12	237,170	26,273	295	65,100	7,641	0	17,327	2,600	2	16,306	1,901	0	7,803	1,062	2
Jul-12	238,333	26,483	299	68,355	7,659	0	17,233	2,601	2	16,240	1,899	0	7,837	1,062	3
Aug-12	239,050	26,647	300	65,407	7,673	0	17,241	2,609	2	16,168	1,910	0	7,769	1,063	3
Sep-12	240,149	26,668	303	65,955	7,693	0	17,264	2,620	2	16,224	1,918	0	7,780	1,066	7
Oct-12	241,492	26,787	301	66,760	7,707	0	17,551	2,633	2	16,491	1,935	0	7,929	1,067	7
Nov-12	243,226	26,925	301	67,504	7,717	0	17,858	2,645	2	16,768	1,943	0	7,982	1,069	6
Dec-12	244,140	27,002	302	68,244	7,735	0	18,129	2,672	2	17,021	1,953	0	8,056	1,072	1
Jan-13	245,757	26,995	302	67,623	7,711	0	18,307	2,660	2	16,992	1,950	0	8,115	1,077	2
Feb-13	245,825	27,084	300	67,806	7,749	0	18,359	2,702	2	17,025	1,953	0	8,123	1,081	3
Mar-13	246,029	27,058	297	67,760	7,768	0	18,292	2,684	2	16,997	1,950	0	8,115	1,085	2
Apr-13	246,323	27,102	297	67,765	7,803	0	18,376	2,674	2	16,979	1,947	0	8,050	1,087	2
May-13	245,974	27,053	295	67,863	7,819	0	18,272	2,679	2	16,929	1,934	0	8,054	1,089	2
Jun-13	246,513	27,097	298	67,631	7,840	0	18,162	2,674	2	16,754	1,935	0	8,000	1,080	2
Jul-13	247,722	27,313	302	71,012	7,859	0	18,064	2,676	2	16,687	1,933	0	8,035	1,080	3
Aug-13	248,467	27,483	303	67,950	7,874	0	18,072	2,684	2	16,613	1,944	0	7,965	1,081	3
Sep-13	249,609	27,505	306	68,519	7,894	0	18,096	2,695	2	16,670	1,953	0	7,977	1,084	7
Oct-13	251,005	27,627	304	69,355	7,909	0	18,397	2,709	2	16,945	1,969	0	8,130	1,085	7
Nov-13	252,807	27,770	304	70,128	7,919	0	18,719	2,721	2	17,229	1,977	0	8,184	1,087	6
Dec-13	253,758	27,849	305	70,897	7,937	0	19,003	2,748	2	17,489	1,988	0	8,259	1,090	1
Jan-14	254,773	27,736	307	70,073	7,941	0	19,149	2,740	2	17,432	1,996	0	8,308	1,094	2
Feb-14	254,844	27,828	305	70,263	7,980	0	19,204	2,783	2	17,465	1,998	0	8,316	1,099	3
Mar-14	255,055	27,802	302	70,215	8,000	0	19,133	2,766	2	17,437	1,996	0	8,308	1,102	2
Apr-14	255,360	27,846	302	70,221	8,036	0	19,221	2,755	2	17,418	1,992	0	8,242	1,104	2
May-14	254,998	27,797	300	70,322	8,053	0	19,113	2,760	2	17,367	1,979	0	8,246	1,107	2
Jun-14	255,556	27,841	303	70,082	8,074	0	18,998	2,755	2	17,188	1,980	0	8,190	1,098	2
Jul-14	256,810	28,064	307	73,585	8,094	0	18,895	2,757	2	17,119	1,978	0	8,226	1,098	3
Aug-14	257,582	28,238	308	70,412	8,109	0	18,904	2,766	2	17,043	1,990	0	8,155	1,099	3
Sep-14	258,767	28,261	311	71,002	8,129	0	18,929	2,777	2	17,102	1,998	0	8,167	1,101	7
Oct-14	260,213	28,386	309	71,869	8,145	0	19,243	2,791	2	17,384	2,015	0	8,323	1,102	7
Nov-14	262,082	28,533	309	72,669	8,155	0	19,580	2,804	2	17,675	2,024	0	8,378	1,104	6
Dec-14	263,067	28,614	310	73,466	8,174	0	19,877	2,832	2	17,942	2,035	0	8,456	1,108	1
Jan-15	263,296	28,478	311	72,615	8,198	0	20,010	2,833	2	17,869	2,050	0	8,483	1,112	2
Feb-15	263,368	28,572	309	72,812	8,238	0	20,067	2,878	2	17,902	2,053	0	8,491	1,117	3
Mar-15	263,587	28,545	306	72,762	8,259	0	19,993	2,859	2	17,874	2,050	0	8,483	1,120	2
Apr-15	263,902	28,591	306	72,768	8,296	0	20,085	2,849	2	17,854	2,047	0	8,415	1,123	2
May-15	263,527	28,540	304	72,873	8,313	0	19,971	2,854	2	17,802	2,033	0	8,419	1,125	2
Jun-15	264,105	28,586	307	72,624	8,336	0	19,852	2,849	2	17,618	2,034	0	8,363	1,116	2
Jul-15	265,400	28,815	311	76,255	8,355	0	19,744	2,850	2	17,548	2,032	0	8,399	1,116	3
Aug-15	266,198	28,993	312	72,966	8,371	0	19,753	2,859	2	17,470	2,044	0	8,326	1,117	3
Sep-15	267,423	29,016	315	73,578	8,392	0	19,779	2,871	2	17,530	2,053	0	8,339	1,119	7
Oct-15	268,918	29,146	313	74,476	8,408	0	20,108	2,886	2	17,819	2,070	0	8,498	1,120	7
Nov-15	270,849	29,296	313	75,306	8,419	0	20,460	2,899	2	18,118	2,079	0	8,555	1,123	6
Dec-15	271,867	29,380	314	76,131	8,439	0	20,771	2,928	2	18,391	2,090	0	8,634	1,126	1

Appendix 2.2 - Customer Forecast - Number by Region

Base Case (Utilized in Cases#1, #2 & #3)

	WA/ID			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	271,619	29,220	316	75,211	8,443	0	20,905	2,922	2	18,319	2,103	0	8,661	1,130	2
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	3
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	2
Apr-16	272,244	29,336	311	75,369	8,543	0	20,984	2,938	2	18,305	2,099	0	8,592	1,141	2
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	2
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	2
Jul-16	273,790	29,565	316	78,981	8,605	0	20,627	2,939	2	17,991	2,084	0	8,575	1,133	3
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	3
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	7
Oct-16	277,419	29,905	318	77,138	8,659	0	21,008	2,976	2	18,269	2,123	0	8,677	1,138	7
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	6
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	1
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	2
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	3
Mar-17	279,555	29,948	313	77,881	8,744	0	21,803	3,032	2	18,779	2,153	0	8,836	1,156	2
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	2
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	2
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	2
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	3
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	3
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	7
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	7
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	6
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	1
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	2
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	3
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	2
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	2
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	2
Jun-18	287,753	30,645	318	80,257	9,080	0	22,565	3,103	2	18,965	2,188	0	8,885	1,169	2
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	3
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	3
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	7
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	7
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	6
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	1
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	2
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	3
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	2
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	2
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	2
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	2
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	3
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	3
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	7
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	7
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	6
Dec-19	303,983	32,170	329	86,805	9,464	0	24,591	3,275	2	20,279	2,305	0	9,354	1,198	1
Jan-20	301,926	31,731	328	85,270	9,475	0	24,633	3,258	2	20,152	2,323	0	9,371	1,200	2
Feb-20	302,009	31,836	326	85,500	9,520	0	24,703	3,309	2	20,190	2,326	0	9,379	1,206	3
Mar-20	302,260	31,806	323	85,442	9,545	0	24,613	3,288	2	20,158	2,323	0	9,371	1,209	2
Apr-20	302,620	31,857	323	85,449	9,587	0	24,726	3,276	2	20,136	2,319	0	9,296	1,212	2
May-20	302,191	31,800	320	85,572	9,607	0	24,586	3,282	2	20,077	2,304	0	9,300	1,214	2
Jun-20	302,853	31,851	324	85,280	9,633	0	24,439	3,276	2	19,870	2,305	0	9,238	1,204	2
Jul-20	304,339	32,106	328	89,543	9,656	0	24,306	3,278	2	19,790	2,302	0	9,278	1,204	3

Appendix 2.2 - Customer Forecast - Number by Region

Base Case (Utilized in Cases#1, #2 & #3)

	WA/ID			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.
Aug-20	305,254	32,305	329	85,682	9,674	0	24,317	3,288	2	19,702	2,316	0	9,198	1,206	3
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	7
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	7
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	6
Dec-20	311,755	32,735	331	89,398	9,752	0	25,570	3,367	2	20,741	2,368	0	9,537	1,216	1
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	2
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	3
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	2
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	2
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	2
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	2
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	3
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	3
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	7
Oct-21	315,959	33,038	333	89,959	9,986	0	25,698	3,389	2	20,537	2,394	0	9,564	1,225	7
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	6
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	1
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	2
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	3
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	2
Apr-22	317,015	32,961	329	90,385	10,128	0	26,640	3,428	2	21,029	2,422	0	9,648	1,245	2
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	2
Jun-22	317,259	32,955	330	90,206	10,176	0	26,330	3,428	2	20,751	2,408	0	9,588	1,237	2
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	3
Aug-22	319,774	33,424	335	90,631	10,220	0	26,200	3,440	2	20,576	2,419	0	9,546	1,238	3
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	7
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	7
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	6
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	1
Jan-23	323,221	33,329	337	92,584	10,283	0	27,542	3,489	2	21,509	2,485	0	9,907	1,250	2
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	3
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	2
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	2
May-23	323,505	33,402	329	92,912	10,427	0	27,489	3,515	2	21,429	2,464	0	9,833	1,264	2
Jun-23	324,214	33,455	333	92,595	10,455	0	27,324	3,509	2	21,208	2,466	0	9,767	1,254	2
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	3
Aug-23	326,784	33,932	338	93,031	10,500	0	27,189	3,522	2	21,029	2,478	0	9,724	1,255	3
Sep-23	328,287	33,959	342	93,811	10,527	0	27,225	3,536	2	21,101	2,488	0	9,739	1,257	7
Oct-23	330,122	34,110	339	94,956	10,547	0	27,677	3,554	2	21,450	2,509	0	9,925	1,259	7
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	6
Dec-23	333,743	34,384	340	97,066	10,585	0	28,589	3,606	2	22,139	2,533	0	10,083	1,265	1
Jan-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	2
Feb-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	3
Mar-24	330,520	33,909	334	95,200	10,629	0	28,549	3,599	2	21,989	2,542	0	10,091	1,274	2
Apr-24	330,914	33,963	334	95,207	10,676	0	28,681	3,586	2	21,965	2,537	0	10,010	1,276	2
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	2
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	2
Jul-24	332,794	34,229	339	99,769	10,753	0	28,193	3,587	2	21,588	2,519	0	9,991	1,268	3
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	3
Sep-24	335,330	34,468	344	96,266	10,800	0	28,244	3,614	2	21,565	2,545	0	9,919	1,272	7
Oct-24	337,204	34,622	341	97,441	10,821	0	28,714	3,632	2	21,921	2,566	0	10,108	1,274	7
Nov-24	339,626	34,801	341	98,527	10,834	0	29,216	3,649	2	22,289	2,577	0	10,176	1,276	6
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	1
Jan-25	337,088	34,329	342	97,524	10,802	0	29,656	3,637	2	22,477	2,596	0	10,281	1,279	2
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	3

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

	WA/ID			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.
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
Apr-25	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
May-25	337,385	34,404	334	97,870	10,953	0	29,600	3,665	2	22,393	2,574	0	10,203	1,293	2
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
Jul-25	339,783	34,734	342	102,412	11,009	0	29,262	3,659	2	22,074	2,572	0	10,179	1,283	3
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
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
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
Nov-25	346,759	35,315	344	101,137	11,092	0	30,324	3,722	2	22,790	2,632	0	10,367	1,291	6
Dec-25	348,062	35,416	345	102,246	11,118	0	30,784	3,759	2	23,135	2,646	0	10,463	1,295	1
Jan-26	337,088	34,329	342	97,524	10,802	0	29,656	3,637	2	22,477	2,596	0	10,281	1,279	2
Feb-26	337,181	34,442	340	97,788	10,854	0	29,741	3,695	2	22,520	2,599	0	10,290	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	1,288	2
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
May-26	337,385	34,404	334	97,870	10,953	0	29,600	3,665	2	22,393	2,574	0	10,203	1,293	2
Jun-26	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
Jul-26	339,783	34,734	342	102,412	11,009	0	29,262	3,659	2	22,074	2,572	0	10,179	1,283	3
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
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
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

Appendix 2.2 - Customer Forecast - Number by Region

Low Growth Case (Utilized in Cases #4, #5 & #6)

	WA/ID			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	6
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	1
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	2
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	3
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	2
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	2
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	2
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	2
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	3
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	3
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	7
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	7
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	6
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	1
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	2
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	3
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	2
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	2
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	2
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	2
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	3
Aug-08	192,943	22,111	273	52,203	6,513	0	13,455	2,238	2	13,913	1,695	0	6,833	970	3
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	7
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	7
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	6
Dec-08	195,099	22,266	274	53,402	6,540	0	13,819	2,266	2	14,293	1,714	0	6,962	974	1
Jan-09	196,056	22,330	275	53,363	6,554	0	13,939	2,263	2	14,328	1,720	0	7,000	977	2
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	3
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	2
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	2
May-09	196,148	22,356	272	53,465	6,603	0	13,925	2,272	2	14,300	1,713	0	6,972	983	2
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	2
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	3
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	3
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	7
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	7
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	6
Dec-09	199,453	22,705	276	54,757	6,656	0	14,227	2,303	2	14,550	1,738	0	7,065	983	1
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	2
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	3
Mar-10	200,640	22,784	276	54,657	6,682	0	14,315	2,311	2	14,567	1,744	0	7,096	989	2
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	2
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	2
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	2
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	3
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	3
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	7
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	7
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	6
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	1
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	2
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	3
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	2
Apr-11	205,492	23,216	278	55,904	6,799	0	14,745	2,339	2	14,770	1,761	0	7,162	1,000	2
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	2

Appendix 2.2 - Customer Forecast - Number by Region

Low Growth Case (Utilized in Cases #4, #5 & #6)

	WA/ID			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.
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	2
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	3
Aug-11	206,483	23,395	281	55,989	6,832	0	14,607	2,343	2	14,596	1,760	0	7,121	997	3
Sep-11	207,010	23,405	282	56,252	6,842	0	14,618	2,349	2	14,623	1,764	0	7,127	998	7
Oct-11	207,655	23,462	281	56,639	6,849	0	14,755	2,355	2	14,754	1,772	0	7,200	999	7
Nov-11	208,487	23,530	281	56,996	6,854	0	14,901	2,361	2	14,888	1,776	0	7,225	1,000	6
Dec-11	208,926	23,567	282	57,352	6,863	0	15,031	2,374	2	15,012	1,781	0	7,261	1,002	1
Jan-12	209,942	23,576	282	57,110	6,846	0	15,113	2,364	2	14,993	1,779	0	7,290	1,003	2
Feb-12	209,975	23,619	282	57,198	6,865	0	15,138	2,385	2	15,009	1,780	0	7,294	1,006	3
Mar-12	210,073	23,607	280	57,176	6,874	0	15,106	2,376	2	14,996	1,779	0	7,290	1,007	2
Apr-12	210,214	23,628	280	57,179	6,891	0	15,146	2,371	2	14,986	1,777	0	7,258	1,008	2
May-12	210,046	23,604	279	57,226	6,899	0	15,097	2,374	2	14,962	1,771	0	7,260	1,010	2
Jun-12	210,305	23,625	281	57,114	6,909	0	15,044	2,371	2	14,877	1,772	0	7,234	1,005	2
Jul-12	210,887	23,730	282	58,741	6,918	0	14,997	2,372	2	14,845	1,770	0	7,251	1,005	3
Aug-12	211,245	23,813	283	57,267	6,926	0	15,001	2,376	2	14,809	1,776	0	7,217	1,006	3
Sep-12	211,795	23,823	284	57,541	6,935	0	15,013	2,382	2	14,836	1,780	0	7,223	1,007	7
Oct-12	212,466	23,882	283	57,944	6,943	0	15,156	2,388	2	14,970	1,788	0	7,297	1,007	7
Nov-12	213,334	23,952	283	58,316	6,947	0	15,310	2,394	2	15,108	1,792	0	7,323	1,008	6
Dec-12	213,791	23,990	284	58,686	6,956	0	15,445	2,407	2	15,235	1,798	0	7,360	1,010	1
Jan-13	214,599	23,986	284	58,375	6,945	0	15,535	2,401	2	15,221	1,796	0	7,390	1,012	2
Feb-13	214,633	24,031	283	58,467	6,963	0	15,561	2,422	2	15,237	1,797	0	7,394	1,015	3
Mar-13	214,735	24,018	282	58,444	6,973	0	15,527	2,414	2	15,223	1,796	0	7,390	1,016	2
Apr-13	214,882	24,040	282	58,447	6,991	0	15,569	2,409	2	15,214	1,794	0	7,358	1,018	2
May-13	214,707	24,016	280	58,495	6,999	0	15,517	2,411	2	15,189	1,788	0	7,360	1,019	2
Jun-13	214,977	24,037	282	58,380	7,009	0	15,462	2,409	2	15,102	1,789	0	7,333	1,014	2
Jul-13	215,581	24,146	284	60,070	7,019	0	15,413	2,409	2	15,068	1,787	0	7,350	1,014	3
Aug-13	215,954	24,230	284	58,539	7,026	0	15,417	2,414	2	15,031	1,793	0	7,315	1,015	3
Sep-13	216,525	24,241	286	58,823	7,036	0	15,429	2,419	2	15,060	1,797	0	7,321	1,016	7
Oct-13	217,223	24,303	285	59,242	7,043	0	15,580	2,426	2	15,197	1,806	0	7,397	1,016	7
Nov-13	218,124	24,374	285	59,628	7,048	0	15,741	2,432	2	15,339	1,810	0	7,424	1,018	16
Dec-13	218,599	24,413	285	60,012	7,058	0	15,883	2,446	2	15,469	1,815	0	7,462	1,019	1
Jan-14	219,107	24,357	286	59,601	7,060	0	15,956	2,442	2	15,441	1,819	0	7,487	1,021	2
Feb-14	219,142	24,403	286	59,695	7,079	0	15,983	2,463	2	15,457	1,820	0	7,490	1,023	3
Mar-14	219,248	24,390	284	59,672	7,089	0	15,948	2,454	2	15,443	1,819	0	7,487	1,025	2
Apr-14	219,400	24,412	284	59,674	7,107	0	15,992	2,449	2	15,434	1,817	0	7,453	1,026	2
May-14	219,219	24,387	283	59,725	7,115	0	15,937	2,452	2	15,408	1,811	0	7,455	1,027	2
Jun-14	219,499	24,410	285	59,605	7,126	0	15,880	2,449	2	15,319	1,811	0	7,428	1,023	2
Jul-14	220,126	24,521	286	61,357	7,136	0	15,828	2,450	2	15,284	1,810	0	7,445	1,023	3
Aug-14	220,512	24,608	287	59,770	7,143	0	15,833	2,454	2	15,246	1,816	0	7,410	1,023	3
Sep-14	221,104	24,619	289	60,065	7,154	0	15,845	2,460	2	15,275	1,820	0	7,416	1,024	7
Oct-14	221,827	24,682	287	60,498	7,161	0	16,003	2,467	2	15,416	1,829	0	7,494	1,025	7
Nov-14	222,762	24,756	287	60,899	7,166	0	16,171	2,473	2	15,562	1,833	0	7,522	1,026	6
Dec-14	223,254	24,796	288	61,297	7,176	0	16,320	2,487	2	15,696	1,838	0	7,560	1,028	1
Jan-15	223,368	24,728	288	60,872	7,188	0	16,386	2,488	2	15,659	1,846	0	7,574	1,030	2
Feb-15	223,405	24,775	288	60,970	7,208	0	16,414	2,510	2	15,676	1,847	0	7,578	1,032	3
Mar-15	223,514	24,762	286	60,945	7,219	0	16,377	2,501	2	15,661	1,846	0	7,574	1,034	2
Apr-15	223,671	24,785	286	60,948	7,237	0	16,424	2,496	2	15,652	1,844	0	7,540	1,035	2
May-15	223,484	24,759	285	61,000	7,246	0	16,367	2,498	2	15,626	1,838	0	7,542	1,036	2
Jun-15	223,773	24,782	287	60,876	7,257	0	16,307	2,496	2	15,534	1,838	0	7,514	1,032	2
Jul-15	224,421	24,896	288	62,691	7,267	0	16,253	2,496	2	15,498	1,837	0	7,532	1,032	3
Aug-15	224,820	24,986	289	61,047	7,275	0	16,258	2,501	2	15,459	1,843	0	7,496	1,032	3
Sep-15	225,432	24,997	291	61,353	7,285	0	16,271	2,507	2	15,489	1,847	0	7,502	1,034	7
Oct-15	226,179	25,062	289	61,802	7,293	0	16,435	2,514	2	15,634	1,856	0	7,582	1,034	7
Nov-15	227,145	25,137	289	62,217	7,298	0	16,611	2,521	2	15,783	1,860	0	7,610	1,035	6
Dec-15	227,654	25,179	290	62,630	7,308	0	16,766	2,535	2	15,920	1,866	0	7,649	1,037	1

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Low Growth Case (Utilized in Cases #4, #5 & #6)

	WA/ID			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	1,871	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	25,272	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	232,459	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	17,537	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	1,915	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	1,058	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	1,058	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	1,059	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	65,716	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	239,050	26,114	292	66,109	7,751	0	18,203	2,668	2	16,539	1,942	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	26,265	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			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.
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
Sep-20	245,050	26,654	299	67,764	7,938	0	18,556	2,722	2	16,609	1,984	0	7,938	1,078	7
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
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
Dec-20	247,598	26,857	299	69,263	7,965	0	19,166	2,755	2	17,095	2,005	0	8,101	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
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
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
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
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
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
Jul-21	247,634	26,820	298	70,618	8,051	0	18,997	2,745	2	16,837	1,996	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
Sep-21	248,822	26,935	301	69,001	8,073	0	19,020	2,758	2	16,826	2,008	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	2,018	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
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
Jan-22	249,864	26,904	300	69,662	8,093	0	19,651	2,776	2	17,247	2,034	0	8,196	1,091	2
Feb-22	249,908	26,959	299	69,784	8,117	0	19,689	2,803	2	17,267	2,036	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
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
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
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
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
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
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
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
Nov-22	254,401	27,376	301	71,333	8,228	0	19,950	2,815	2	17,394	2,051	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
Jan-23	253,331	27,154	301	70,856	8,231	0	20,152	2,816	2	17,479	2,064	0	8,286	1,099	2
Feb-23	253,375	27,209	301	70,981	8,255	0	20,191	2,844	2	17,500	2,065	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
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
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
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
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
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
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
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
Nov-23	257,967	27,632	303	72,571	8,369	0	20,462	2,857	2	17,629	2,081	0	8,328	1,105	6
Dec-23	258,592	27,681	303	73,097	8,381	0	20,676	2,874	2	17,794	2,087	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
Feb-24	256,843	27,459	302	72,196	8,390	0	20,708	2,883	2	17,736	2,093	0	8,382	1,109	3
Mar-24	256,981	27,444	300	72,164	8,403	0	20,655	2,871	2	17,719	2,092	0	8,378	1,111	2
Apr-24	257,178	27,471	300	72,168	8,427	0	20,721	2,864	2	17,707	2,090	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
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
Jul-24	258,117	27,603	302	74,449	8,465	0	20,478	2,865	2	17,518	2,080	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
Sep-24	259,385	27,723	305	72,697	8,489	0	20,503	2,878	2	17,507	2,093	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
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
Dec-24	262,172	27,939	304	74,368	8,519	0	21,211	2,914	2	18,037	2,116	0	8,467	1,114	1
Jan-25	260,265	27,653	304	73,326	8,490	0	21,209	2,890	2	17,963	2,119	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

Appendix 2.2 - Customer Forecast - Number by Region

Low Growth Case (Utilized in Cases #4, #5 & #6)

	WA/ID			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.
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
Apr-25	260,653	27,722	301	73,429	8,554	0	21,265	2,900	2	17,954	2,117	0	8,432	1,119	2
May-25	260,413	27,691	300	73,499	8,566	0	21,181	2,904	2	17,921	2,108	0	8,434	1,121	2
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
Jul-25	261,612	27,856	304	75,770	8,593	0	21,012	2,901	2	17,761	2,107	0	8,422	1,115	3
Aug-25	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
Sep-25	262,907	27,978	306	73,972	8,618	0	21,038	2,915	2	17,750	2,121	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
Nov-25	265,100	28,147	305	75,133	8,635	0	21,543	2,932	2	18,120	2,137	0	8,516	1,119	6
Dec-25	265,752	28,197	306	75,687	8,648	0	21,773	2,951	2	18,292	2,144	0	8,564	1,121	1
Jan-26	260,265	27,653	304	73,326	8,490	0	21,209	2,890	2	17,963	2,119	0	8,473	1,113	2
Feb-26	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
Mar-26	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
Apr-26	260,653	27,722	301	73,429	8,554	0	21,265	2,900	2	17,954	2,117	0	8,432	1,119	2
May-26	260,413	27,691	300	73,499	8,566	0	21,181	2,904	2	17,921	2,108	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
Jul-26	261,612	27,856	304	75,770	8,593	0	21,012	2,901	2	17,761	2,107	0	8,422	1,115	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
Sep-26	262,907	27,978	306	73,972	8,618	0	21,038	2,915	2	17,750	2,121	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

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

	WA/ID			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	193,950	22,174	274	53,028	6,478	0	13,587	2,233	2	14,124	1,702	0	6,890	971	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	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	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	3
Mar-07	196,800	22,553	274	54,308	6,672	0	14,106	2,301	2	14,594	1,735	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	2
May-07	196,887	22,547	271	54,422	6,733	0	13,935	2,295	2	14,511	1,714	0	6,991	996	2
Jun-07	197,496	22,598	275	54,165	6,759	0	13,893	2,289	2	14,300	1,716	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	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	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	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	7
Nov-07	205,359	23,428	281	56,928	6,853	0	14,487	2,346	2	14,874	1,770	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	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	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	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	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	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	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	2
Jul-08	211,038	24,162	286	62,091	7,163	0	14,831	2,418	2	14,939	1,784	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	3
Mar-10	235,039	26,397	295	65,716	7,691	0	17,420	2,647	2	16,802	1,948	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	2
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	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	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	1,065	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	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	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	7
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	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	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	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	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	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	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	2

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

	WA/ID			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.
Jun-11	249,858	27,684	304	69,269	8,093	0	18,420	2,730	2	17,092	1,981	0	8,084	1,094	2
Jul-11	251,534	27,989	309	73,960	8,120	0	18,286	2,732	2	16,997	1,978	0	8,133	1,094	3
Aug-11	252,566	28,228	310	69,711	8,141	0	18,297	2,744	2	16,891	1,995	0	8,034	1,096	3
Sep-11	254,149	28,259	315	70,501	8,170	0	18,330	2,760	2	16,972	2,007	0	8,051	1,099	7
Oct-11	256,082	28,431	312	71,661	8,191	0	18,741	2,779	2	17,363	2,031	0	8,269	1,100	7
Nov-11	258,580	28,633	312	72,733	8,205	0	19,180	2,797	2	17,767	2,043	0	8,346	1,104	6
Dec-11	259,897	28,744	314	73,800	8,232	0	19,568	2,835	2	18,137	2,058	0	8,454	1,109	1
Jan-12	262,944	28,772	315	73,074	8,183	0	19,816	2,806	2	18,081	2,053	0	8,540	1,114	2
Feb-12	263,042	28,901	313	73,339	8,238	0	19,891	2,868	2	18,128	2,057	0	8,551	1,121	3
Mar-12	263,337	28,864	308	73,272	8,267	0	19,794	2,843	2	18,089	2,053	0	8,540	1,126	2
Apr-12	263,760	28,927	308	73,280	8,317	0	19,915	2,828	2	18,061	2,048	0	8,445	1,129	2
May-12	263,257	28,857	305	73,421	8,341	0	19,766	2,835	2	17,989	2,029	0	8,451	1,133	2
Jun-12	264,034	28,920	310	73,086	8,372	0	19,609	2,828	2	17,734	2,031	0	8,371	1,119	2
Jul-12	265,780	29,235	315	77,968	8,399	0	19,468	2,830	2	17,636	2,027	0	8,422	1,119	3
Aug-12	266,854	29,482	316	73,546	8,421	0	19,480	2,843	2	17,528	2,045	0	8,320	1,121	3
Sep-12	268,504	29,513	321	74,368	8,450	0	19,514	2,859	2	17,611	2,057	0	8,338	1,124	7
Oct-12	270,517	29,691	318	75,576	8,472	0	19,945	2,879	2	18,013	2,081	0	8,561	1,126	7
Nov-12	273,119	29,899	318	76,692	8,486	0	20,406	2,897	2	18,427	2,093	0	8,640	1,129	6
Dec-12	274,490	30,014	320	77,802	8,513	0	20,812	2,936	2	18,807	2,109	0	8,751	1,134	1
Jan-13	276,915	30,003	319	76,870	8,478	0	21,080	2,918	2	18,764	2,104	0	8,841	1,141	2
Feb-13	277,017	30,137	318	77,145	8,534	0	21,158	2,981	2	18,812	2,108	0	8,851	1,148	3
Mar-13	277,324	30,098	313	77,076	8,564	0	21,057	2,955	2	18,771	2,104	0	8,841	1,153	2
Apr-13	277,764	30,163	313	77,084	8,616	0	21,183	2,940	2	18,744	2,099	0	8,743	1,157	2
May-13	277,240	30,091	309	77,230	8,640	0	21,027	2,947	2	18,669	2,080	0	8,749	1,160	2
Jun-13	278,048	30,156	314	76,883	8,672	0	20,863	2,940	2	18,407	2,082	0	8,668	1,146	2
Jul-13	279,862	30,481	319	81,954	8,700	0	20,715	2,942	2	18,307	2,078	0	8,720	1,146	3
Aug-13	280,979	30,735	321	77,360	8,722	0	20,728	2,955	2	18,195	2,096	0	8,615	1,148	3
Sep-13	282,694	30,768	326	78,214	8,752	0	20,763	2,972	2	18,281	2,108	0	8,633	1,152	7
Oct-13	284,786	30,952	323	79,469	8,774	0	21,215	2,992	2	18,693	2,133	0	8,862	1,153	7
Nov-13	287,490	31,166	323	80,628	8,789	0	21,698	3,010	2	19,119	2,145	0	8,943	1,157	6
Dec-13	288,916	31,284	324	81,781	8,817	0	22,124	3,051	2	19,510	2,161	0	9,057	1,162	1
Jan-14	290,440	31,116	327	80,546	8,823	0	22,343	3,039	2	19,424	2,173	0	9,130	1,167	2
Feb-14	290,545	31,253	325	80,830	8,881	0	22,425	3,104	2	19,473	2,177	0	9,141	1,174	3
Mar-14	290,863	31,214	320	80,759	8,911	0	22,319	3,077	2	19,431	2,173	0	9,130	1,179	2
Apr-14	291,319	31,281	320	80,767	8,965	0	22,451	3,062	2	19,403	2,168	0	9,030	1,183	2
May-14	290,776	31,206	317	80,919	8,990	0	22,288	3,069	2	19,327	2,148	0	9,036	1,186	2
Jun-14	291,614	31,273	322	80,559	9,023	0	22,116	3,062	2	19,058	2,150	0	8,953	1,172	2
Jul-14	293,495	31,607	327	85,814	9,051	0	21,961	3,064	2	18,955	2,146	0	9,006	1,172	3
Aug-14	294,653	31,868	329	81,054	9,074	0	21,975	3,077	2	18,840	2,164	0	8,899	1,174	3
Sep-14	296,430	31,902	334	81,939	9,105	0	22,012	3,094	2	18,928	2,177	0	8,918	1,177	7
Oct-14	298,599	32,090	330	83,239	9,128	0	22,484	3,115	2	19,351	2,202	0	9,152	1,179	7
Nov-14	301,403	32,311	330	84,440	9,143	0	22,989	3,134	2	19,788	2,215	0	9,235	1,183	6
Dec-14	302,881	32,432	332	85,635	9,172	0	23,435	3,176	2	20,189	2,231	0	9,351	1,188	1
Jan-15	303,223	32,228	333	84,359	9,208	0	23,634	3,178	2	20,078	2,255	0	9,392	1,194	2
Feb-15	303,332	32,370	331	84,654	9,268	0	23,719	3,245	2	20,129	2,258	0	9,403	1,201	3
Mar-15	303,660	32,329	326	84,580	9,300	0	23,608	3,217	2	20,086	2,255	0	9,392	1,206	2
Apr-15	304,132	32,398	326	84,588	9,355	0	23,747	3,201	2	20,057	2,249	0	9,290	1,210	2
May-15	303,571	32,321	322	84,745	9,381	0	23,576	3,209	2	19,979	2,229	0	9,296	1,213	2
Jun-15	304,437	32,390	328	84,372	9,414	0	23,396	3,201	2	19,703	2,230	0	9,211	1,199	2
Jul-15	306,380	32,733	333	89,818	9,444	0	23,235	3,203	2	19,597	2,227	0	9,266	1,199	3
Aug-15	307,577	33,001	335	84,885	9,468	0	23,249	3,217	2	19,480	2,245	0	9,157	1,201	3
Sep-15	309,414	33,036	340	85,802	9,500	0	23,288	3,235	2	19,570	2,258	0	9,176	1,205	7
Oct-15	311,656	33,229	336	87,150	9,523	0	23,781	3,257	2	20,004	2,284	0	9,415	1,206	7
Nov-15	314,553	33,455	336	88,394	9,539	0	24,309	3,276	2	20,452	2,297	0	9,499	1,210	6
Dec-15	316,080	33,580	338	89,633	9,569	0	24,775	3,320	2	20,862	2,314	0	9,618	1,215	1

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

	WA/ID			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	315,708	33,341	340	88,252	9,575	0	24,977	3,311	2	20,754	2,334	0	9,659	1,221	2
Feb-16	315,820	33,486	339	88,558	9,636	0	25,066	3,380	2	20,807	2,337	0	9,671	1,228	3
Mar-16	316,159	33,445	333	88,481	9,669	0	24,950	3,352	2	20,762	2,334	0	9,659	1,233	2
Apr-16	316,646	33,515	333	88,490	9,726	0	25,095	3,335	2	20,732	2,328	0	9,556	1,237	2
May-16	316,067	33,436	330	88,653	9,753	0	24,917	3,343	2	20,652	2,307	0	9,561	1,240	2
Jun-16	316,960	33,507	335	88,266	9,787	0	24,729	3,335	2	20,370	2,309	0	9,475	1,226	2
Jul-16	318,965	33,859	340	93,907	9,818	0	24,560	3,337	2	20,261	2,305	0	9,531	1,226	3
Aug-16	320,200	34,134	342	88,798	9,842	0	24,575	3,352	2	20,141	2,324	0	9,419	1,228	3
Sep-16	322,094	34,169	347	89,747	9,875	0	24,616	3,370	2	20,233	2,337	0	9,438	1,231	7
Oct-16	324,407	34,368	344	91,143	9,899	0	25,131	3,392	2	20,678	2,364	0	9,682	1,233	7
Nov-16	327,396	34,600	344	92,432	9,916	0	25,683	3,413	2	21,137	2,377	0	9,769	1,237	6
Dec-16	328,972	34,728	346	93,715	9,946	0	26,169	3,457	2	21,558	2,395	0	9,890	1,242	1
Jan-17	327,148	34,326	343	92,022	9,930	0	26,351	3,434	2	21,436	2,409	0	9,922	1,247	2
Feb-17	327,263	34,475	342	92,338	9,993	0	26,444	3,505	2	21,489	2,413	0	9,934	1,254	3
Mar-17	327,612	34,432	336	92,258	10,026	0	26,324	3,476	2	21,444	2,409	0	9,922	1,260	2
Apr-17	328,112	34,504	336	92,268	10,085	0	26,475	3,459	2	21,413	2,403	0	9,816	1,263	2
May-17	316,067	33,436	330	92,436	10,112	0	26,288	3,467	2	21,331	2,382	0	9,822	1,267	2
Jun-17	328,435	34,496	338	92,036	10,148	0	26,092	3,459	2	21,041	2,384	0	9,734	1,252	2
Jul-17	330,496	34,856	343	97,865	10,179	0	25,916	3,461	2	20,930	2,380	0	9,791	1,252	3
Aug-17	331,766	35,137	345	92,585	10,205	0	25,931	3,476	2	20,807	2,399	0	9,677	1,254	3
Sep-17	333,714	35,173	350	93,567	10,238	0	25,974	3,495	2	20,902	2,413	0	9,697	1,258	7
Oct-17	336,092	35,377	347	95,009	10,263	0	26,512	3,518	2	21,358	2,440	0	9,946	1,260	7
Nov-17	339,164	35,614	347	96,342	10,280	0	27,088	3,539	2	21,828	2,454	0	10,034	1,263	6
Dec-17	340,784	35,745	349	97,667	10,311	0	27,596	3,585	2	22,259	2,471	0	10,157	1,269	1
Jan-18	338,586	35,306	349	95,807	10,306	0	27,737	3,557	2	22,127	2,488	0	10,187	1,274	2
Feb-18	338,705	35,457	348	96,133	10,371	0	27,834	3,631	2	22,182	2,492	0	10,199	1,281	3
Mar-18	339,063	35,414	342	96,051	10,406	0	27,708	3,600	2	22,135	2,488	0	10,187	1,286	2
Apr-18	339,576	35,488	342	96,060	10,466	0	27,865	3,583	2	22,104	2,482	0	10,079	1,290	2
May-18	338,965	35,405	339	96,234	10,494	0	27,671	3,592	2	22,019	2,460	0	10,085	1,294	2
Jun-18	339,909	35,479	344	95,821	10,531	0	27,467	3,583	2	21,723	2,462	0	9,995	1,279	2
Jul-18	342,026	35,847	349	101,840	10,563	0	27,283	3,585	2	21,609	2,458	0	10,053	1,279	3
Aug-18	343,330	36,134	351	96,388	10,589	0	27,299	3,600	2	21,483	2,478	0	9,936	1,281	3
Sep-18	345,331	36,171	357	97,402	10,623	0	27,344	3,620	2	21,580	2,492	0	9,957	1,285	7
Oct-18	347,774	36,379	353	98,891	10,649	0	27,905	3,643	2	22,047	2,520	0	10,211	1,286	7
Nov-18	350,931	36,621	353	100,266	10,667	0	28,505	3,665	2	22,529	2,533	0	10,301	1,290	6
Dec-18	352,595	36,755	355	101,635	10,699	0	29,034	3,712	2	22,971	2,551	0	10,427	1,296	1
Jan-19	349,878	36,285	355	99,630	10,703	0	29,155	3,682	2	22,830	2,571	0	10,454	1,301	2
Feb-19	349,999	36,440	354	99,966	10,770	0	29,256	3,757	2	22,886	2,575	0	10,466	1,308	3
Mar-19	350,367	36,396	348	99,882	10,805	0	29,125	3,726	2	22,839	2,571	0	10,454	1,314	2
Apr-19	350,894	36,471	348	99,892	10,868	0	29,288	3,709	2	22,806	2,565	0	10,343	1,317	2
May-19	350,267	36,387	345	100,071	10,896	0	29,086	3,717	2	22,720	2,543	0	10,349	1,321	2
Jun-19	351,235	36,462	350	99,645	10,934	0	28,873	3,709	2	22,416	2,545	0	10,258	1,306	2
Jul-19	353,408	36,838	355	105,855	10,967	0	28,682	3,711	2	22,300	2,541	0	10,317	1,306	3
Aug-19	354,746	37,132	357	100,230	10,994	0	28,699	3,726	2	22,170	2,561	0	10,199	1,308	3
Sep-19	356,800	37,169	363	101,276	11,030	0	28,745	3,746	2	22,269	2,575	0	10,219	1,312	7
Oct-19	359,307	37,381	359	102,812	11,056	0	29,329	3,770	2	22,748	2,604	0	10,478	1,314	7
Nov-19	362,546	37,629	359	104,231	11,074	0	29,954	3,792	2	23,242	2,618	0	10,570	1,317	6
Dec-19	364,254	37,766	361	105,643	11,107	0	30,506	3,841	2	23,695	2,637	0	10,698	1,323	1
Jan-20	361,168	37,108	358	103,340	11,123	0	30,569	3,815	2	23,503	2,664	0	10,724	1,327	2
Feb-20	361,293	37,265	357	103,687	11,191	0	30,674	3,892	2	23,561	2,668	0	10,736	1,334	3
Mar-20	361,669	37,220	351	103,599	11,228	0	30,538	3,861	2	23,512	2,664	0	10,724	1,340	2
Apr-20	362,210	37,296	351	103,610	11,292	0	30,708	3,843	2	23,479	2,658	0	10,612	1,344	2
May-20	361,567	37,211	347	103,794	11,322	0	30,498	3,852	2	23,391	2,635	0	10,618	1,348	2
Jun-20	362,560	37,287	353	103,356	11,361	0	30,277	3,843	2	23,080	2,637	0	10,524	1,332	2
Jul-20	364,788	37,670	358	109,751	11,395	0	30,078	3,845	2	22,961	2,633	0	10,585	1,332	3

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	WA/ID			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.
Aug-20	366,161	37,969	360	103,958	11,423	0	30,095	3,861	2	22,829	2,654	0	10,464	1,334	3
Sep-20	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
Oct-20	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
Nov-20	374,160	38,475	362	108,079	11,505	0	31,401	3,929	2	23,925	2,712	0	10,843	1,344	6
Dec-20	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
Jan-21	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
Feb-21	372,439	38,093	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	376,020	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	7
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	382,841	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	33,353	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	114,804	12,552	0	34,853	4,201	2	25,420	2,875	0	11,417	1,422	2
Jun-23	394,601	39,694	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	35,862	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	404,060	40,375	367	118,235	12,854	0	36,442	4,327	2	26,258	2,992	0	11,803	1,437	2
Apr-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			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.
Mar-25	414,472	41,126	372	122,018	13,234	0	38,066	4,435	2	27,001	3,073	0	12,089	1,458	2
Apr-25	415,076	41,209	372	122,030	13,307	0	38,271	4,415	2	26,964	3,066	0	11,965	1,462	2
May-25	414,357	41,116	368	122,241	13,341	0	38,018	4,425	2	26,866	3,040	0	11,972	1,466	2
Jun-25	415,466	41,199	374	121,740	13,385	0	37,752	4,415	2	26,519	3,042	0	11,869	1,450	2
Jul-25	417,954	41,613	379	129,054	13,424	0	37,513	4,418	2	26,386	3,038	0	11,936	1,450	3
Aug-25	419,486	41,936	381	122,429	13,455	0	37,533	4,435	2	26,239	3,061	0	11,803	1,452	3
Sep-25	421,838	41,978	387	123,660	13,497	0	37,591	4,458	2	26,352	3,078	0	11,826	1,456	7
Oct-25	424,708	42,211	383	125,470	13,528	0	38,322	4,486	2	26,898	3,110	0	12,116	1,458	7
Nov-25	428,417	42,484	383	127,142	13,549	0	39,105	4,511	2	27,461	3,127	0	12,219	1,462	6
Dec-25	430,373	42,634	385	128,805	13,588	0	39,795	4,567	2	27,977	3,148	0	12,362	1,468	1
Jan-26	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-26	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
Mar-26	414,472	41,126	372	122,018	13,234	0	38,066	4,435	2	27,001	3,073	0	12,089	1,458	2
Apr-26	415,076	41,209	372	122,030	13,307	0	38,271	4,415	2	26,964	3,066	0	11,965	1,462	2
May-26	414,357	41,116	368	122,241	13,341	0	38,018	4,425	2	26,866	3,040	0	11,972	1,466	2
Jun-26	415,466	41,199	374	121,740	13,385	0	37,752	4,415	2	26,519	3,042	0	11,869	1,450	2
Jul-26	417,954	41,613	379	129,054	13,424	0	37,513	4,418	2	26,386	3,038	0	11,936	1,450	3
Aug-26	419,486	41,936	381	122,429	13,455	0	37,533	4,435	2	26,239	3,061	0	11,803	1,452	3
Sep-26	421,838	41,978	387	123,660	13,497	0	37,591	4,458	2	26,352	3,078	0	11,826	1,456	7
Oct-26	424,708	42,211	383	125,470	13,528	0	38,322	4,486	2	26,898	3,110	0	12,116	1,458	7

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
WA/ID 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
WA/ID 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
WA/ID 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
WA/ID 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
WA/ID 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
WA/ID 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 Residential	2006/2007 Commercial	2006/2007 Firm Industrial	2006/2007 Total	2007/2008 Residential	2007/2008 Commercial	2007/2008 Firm Industrial	2007/2008 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
Medford	6.35	3.83	-	10.18	6.86	4.08	-	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
Spokane NWP	12.67	7.63	0.58	20.88	13.62	8.12	0.60	22.34
WA/ID 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								
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
Medford	6.02	3.67	-	9.69	6.23	3.78	-	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
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
Spokane NWP	12.12	7.31	0.56	19.99	12.52	7.51	0.57	20.60
WA/ID 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								
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
Medford	6.94	4.10	-	11.05	7.48	4.37	-	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
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
Spokane NWP	13.78	8.23	0.60	22.62	14.77	8.74	0.62	24.13
WA/ID 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 Residential	2008/2009 Commercial	2008/2009 Firm Industrial	2008/2009 Total	2009/2010 Residential	2009/2010 Commercial	2009/2010 Firm Industrial	2009/2010 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
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
WA/ID 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								
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
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
WA/ID 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								
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
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
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
WA/ID 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 Residential	2010/2011 Commercial	2010/2011 Firm Industrial	2010/2011 Total	2011/2012 Residential	2011/2012 Commercial	2011/2012 Firm Industrial	2011/2012 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	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	5.58
OR Sub-total	**17.98**	**10.80**	**0.09**	**28.87**	**18.71**	**11.11**	**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
WA/ID 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	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	4.77
OR Sub-total	**15.51**	**9.70**	**0.09**	**25.31**	**15.80**	**9.83**	**0.09**	**25.72**
Spokane	31.71	18.68	1.39	51.78	32.41	18.96	1.40	52.77
Spokane NWP	13.59	8.00	0.60	22.19	13.89	8.12	0.60	22.62
WA/ID Sub-total	**45.30**	**26.68**	**1.98**	**73.97**	**46.30**	**27.08**	**2.00**	**75.39**
Scenario #6 Total	**60.81**	**36.38**	**2.08**	**99.27**	**62.10**	**36.91**	**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	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	6.39
OR Sub-total	**20.54**	**11.94**	**0.09**	**32.58**	**21.69**	**12.39**	**0.10**	**34.18**
Spokane	41.85	23.89	1.59	67.32	44.50	25.02	1.63	71.15
Spokane NWP	17.93	10.24	0.68	28.85	19.07	10.72	0.70	30.49
WA/ID Sub-total	**59.78**	**34.12**	**2.27**	**96.17**	**63.57**	**35.75**	**2.32**	**101.64**
Scenario #7 Total	**80.32**	**46.06**	**2.36**	**128.75**	**85.26**	**48.14**	**2.42**	**135.82**

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

Area	2012/2013 Residential	2012/2013 Commercial	2012/2013 Firm Industrial	2012/2013 Total	2013/2014 Residential	2013/2014 Commercial	2013/2014 Firm Industrial	2013/2014 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
WA/ID 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
WA/ID 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
WA/ID 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 Residential	2014/2015 Commercial	2014/2015 Firm Industrial	2014/2015 Total	2015/2016 Residential	2015/2016 Commercial	2015/2016 Firm Industrial	2015/2016 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	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	6.44
OR Sub-total	**20.41**	**11.89**	**0.09**	**32.39**	**21.14**	**12.26**	**0.09**	**33.49**
Spokane	42.20	23.52	1.57	67.29	43.66	24.15	1.60	69.41
Spokane NWP	18.07	10.08	0.67	28.83	18.70	10.35	0.68	29.73
WA/ID Sub-total	**60.27**	**33.60**	**2.24**	**96.12**	**62.37**	**34.49**	**2.28**	**99.14**
Scenario #2 Total	**80.68**	**45.49**	**2.33**	**128.50**	**83.50**	**46.76**	**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	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	5.12
OR Sub-total	**16.31**	**10.10**	**0.09**	**26.50**	**16.58**	**10.26**	**0.09**	**26.94**
Spokane	33.84	19.40	1.42	54.66	34.41	19.63	1.43	55.47
Spokane NWP	14.50	8.31	0.61	23.43	14.75	8.41	0.61	23.77
WA/ID Sub-total	**48.34**	**27.72**	**2.03**	**78.09**	**49.15**	**28.04**	**2.05**	**79.24**
Scenario #6 Total	**64.65**	**37.81**	**2.12**	**104.59**	**65.73**	**38.30**	**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	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	7.84
OR Sub-total	**24.79**	**13.77**	**0.09**	**38.65**	**26.01**	**14.37**	**0.10**	**40.48**
Spokane	51.53	27.91	1.72	81.15	53.98	28.97	1.76	84.71
Spokane NWP	22.08	11.96	0.74	34.78	23.13	12.42	0.76	36.31
WA/ID Sub-total	**73.61**	**39.87**	**2.46**	**115.93**	**77.11**	**41.39**	**2.52**	**121.02**
Scenario #7 Total	**98.40**	**53.64**	**2.55**	**154.59**	**103.12**	**55.76**	**2.62**	**161.50**

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

Area	2016/2017 Residential	2016/2017 Commercial	2016/2017 Firm Industrial	2016/2017 Total	2017/2018 Residential	2017/2018 Commercial	2017/2018 Firm Industrial	2017/2018 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	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	6.84
OR Sub-total	**21.58**	**12.50**	**0.09**	**34.18**	**22.18**	**12.79**	**0.09**	**35.06**
Spokane	44.32	24.51	1.60	70.44	45.32	24.96	1.61	71.89
Spokane NWP	19.00	10.50	0.69	30.19	19.42	10.70	0.69	30.81
WA/ID Sub-total	**63.32**	**35.02**	**2.29**	**100.62**	**64.74**	**35.65**	**2.31**	**102.70**
Scenario #2 Total	**84.90**	**47.52**	**2.38**	**134.80**	**86.91**	**48.44**	**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	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	5.31
OR Sub-total	**16.75**	**10.36**	**0.09**	**27.20**	**17.05**	**10.51**	**0.09**	**27.66**
Spokane	34.76	19.77	1.43	55.96	35.29	20.00	1.44	56.74
Spokane NWP	14.90	8.47	0.61	23.98	15.12	8.57	0.62	24.32
WA/ID Sub-total	**49.65**	**28.24**	**2.05**	**79.94**	**50.41**	**28.58**	**2.06**	**81.05**
Scenario #6 Total	**66.40**	**38.60**	**2.14**	**107.14**	**67.47**	**39.09**	**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	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	8.56
OR Sub-total	**26.88**	**14.82**	**0.09**	**41.80**	**27.99**	**15.34**	**0.09**	**43.43**
Spokane	54.83	29.69	1.78	86.30	56.81	30.59	1.81	89.21
Spokane NWP	23.50	12.73	0.76	36.99	24.35	13.11	0.77	38.23
WA/ID Sub-total	**78.33**	**42.42**	**2.54**	**123.29**	**81.16**	**43.70**	**2.58**	**127.44**
Scenario #7 Total	**105.21**	**57.24**	**2.64**	**165.09**	**109.15**	**59.05**	**2.67**	**170.87**

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

Area	2018/2019 Residential	2018/2019 Commercial	2018/2019 Firm Industrial	2018/2019 Total	2019/2020 Residential	2019/2020 Commercial	2019/2020 Firm Industrial	2019/2020 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
Medford	10.08	5.56	-	15.64	10.43	5.75	-	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
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
WA/ID 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
Medford	7.58	4.46	-	12.05	7.76	4.56	-	12.32
Medford NWP	2.53	1.49	-	4.02	2.59	1.52	-	4.11
Roseburg	3.14	2.24	0.04	5.42	3.23	2.29	0.04	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
WA/ID 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
Medford	12.96	6.81	-	19.77	13.53	7.11	-	20.64
Medford NWP	4.32	2.27	-	6.59	4.51	2.37	-	6.88
Roseburg	5.56	3.35	0.04	8.94	5.85	3.48	0.04	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
WA/ID 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 Residential	2020/2021 Commercial	2020/2021 Firm Industrial	2020/2021 Total	2021/2022 Residential	2021/2022 Commercial	2021/2022 Firm Industrial	2021/2022 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	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	7.77
OR Sub-total	**24.11**	**13.79**	**0.09**	**37.99**	**24.78**	**14.12**	**0.09**	**38.99**
Spokane	48.52	26.24	1.65	76.41	49.49	26.64	1.66	77.79
Spokane NWP	20.79	11.24	0.71	32.74	21.21	11.42	0.71	33.34
WA/ID Sub-total	**69.32**	**37.48**	**2.36**	**109.16**	**70.70**	**38.06**	**2.38**	**111.13**
Scenario #2 Total	**93.42**	**51.27**	**2.45**	**147.14**	**95.48**	**52.18**	**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	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	5.75
OR Sub-total	**17.95**	**11.00**	**0.09**	**29.05**	**18.28**	**11.16**	**0.09**	**29.53**
Spokane	36.77	20.59	1.46	58.82	37.22	20.78	1.46	59.47
Spokane NWP	15.75	8.83	0.63	25.21	15.95	8.91	0.63	25.48
WA/ID Sub-total	**52.52**	**29.42**	**2.08**	**84.03**	**53.17**	**29.69**	**2.09**	**84.95**
Scenario #6 Total	**70.48**	**40.42**	**2.18**	**113.08**	**71.45**	**40.85**	**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	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	10.10
OR Sub-total	**31.32**	**17.01**	**0.09**	**48.43**	**32.46**	**17.57**	**0.09**	**50.12**
Spokane	62.41	32.89	1.87	97.17	64.19	33.61	1.90	99.70
Spokane NWP	26.74	14.09	0.80	41.64	27.51	14.40	0.81	42.72
WA/ID Sub-total	**89.16**	**46.98**	**2.68**	**138.82**	**91.70**	**48.01**	**2.71**	**142.42**
Scenario #7 Total	**120.48**	**63.99**	**2.77**	**187.25**	**124.15**	**65.58**	**2.80**	**192.54**

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

Area	2022/2023 Residential	2022/2023 Commercial	2022/2023 Firm Industrial	2022/2023 Total	2023/2024 Residential	2023/2024 Commercial	2023/2024 Firm Industrial	2023/2024 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
WA/ID 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
WA/ID 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
WA/ID 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	2024/2025 Residential	2024/2025 Commercial	2024/2025 Firm Industrial	2024/2025 Total	2025/2026 Residential	2025/2026 Commercial	2025/2026 Firm Industrial	2025/2026 Total
Case #2								
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
WA/ID 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
WA/ID 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
WA/ID 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 (MDth)
By Class (Net of DSM Savings)

Area	2006/2007 Residential	2006/2007 Commercial	2006/2007 Firm Industrial	2006/2007 Total	2007/2008 Residential	2007/2008 Commercial	2007/2008 Firm Industrial	2007/2008 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
WA/ID 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
WA/ID 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
WA/ID 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 (MDth)
By Class (Net of DSM Savings)

Area	2008/2009 Residential	2008/2009 Commercial	2008/2009 Firm Industrial	2008/2009 Total	2009/2010 Residential	2009/2010 Commercial	2009/2010 Firm Industrial	2009/2010 Total
Case #2								
Klam Falls	955.67	559.27	-	1,514.95	990.36	577.86	-	1,568.22
La Grande	556.70	322.07	21.18	899.96	575.80	330.84	21.18	927.83
Medford	2,617.69	1,539.35	-	4,157.04	2,752.55	1,598.86	-	4,351.41
Medford NWP	872.56	513.12	-	1,385.68	917.52	532.95	-	1,450.47
Roseburg	1,010.63	762.86	13.24	1,786.72	1,069.84	791.44	13.28	1,874.57
OR Sub-total	**6,013.25**	**3,696.67**	**34.42**	**9,744.35**	**6,306.07**	**3,831.96**	**34.47**	**10,172.49**
Spokane	12,104.17	7,174.74	517.66	19,796.57	12,750.34	7,485.43	531.45	20,767.23
Spokane NWP	5,186.21	3,074.89	221.85	8,482.95	5,462.71	3,208.04	227.77	8,898.52
WA/ID Sub-total	**17,290.37**	**10,249.64**	**739.51**	**28,279.52**	**18,213.05**	**10,693.47**	**759.22**	**29,665.74**
Case #2 Total	**23,303.62**	**13,946.31**	**773.93**	**38,023.87**	**24,519.12**	**14,525.43**	**793.69**	**39,838.24**
Case #6								
Klam Falls	871.92	522.14	-	1,394.06	888.56	532.33	-	1,420.89
La Grande	512.98	302.47	21.18	836.63	522.83	307.83	21.18	851.84
Medford	2,336.56	1,411.42	-	3,747.98	2,405.09	1,444.03	-	3,849.11
Medford NWP	778.85	470.47	-	1,249.33	801.70	481.34	-	1,283.04
Roseburg	906.32	705.76	13.12	1,625.20	936.57	721.37	13.16	1,671.10
OR Sub-total	**5,406.63**	**3,412.27**	**34.30**	**8,853.20**	**5,554.75**	**3,486.90**	**34.34**	**9,075.99**
Spokane	10,961.56	6,541.02	493.37	17,995.96	11,299.63	6,702.20	501.53	18,503.35
Spokane NWP	4,697.81	2,803.30	211.44	7,712.55	4,842.70	2,872.37	214.94	7,930.01
WA/ID Sub-total	**15,659.38**	**9,344.32**	**704.81**	**25,708.51**	**16,142.33**	**9,574.57**	**716.47**	**26,433.36**
Case #6 Total	**21,066.01**	**12,756.59**	**739.11**	**34,561.71**	**21,697.08**	**13,061.47**	**750.81**	**35,509.35**
Case #7								
Klam Falls	1,048.05	598.26	-	1,646.31	1,098.30	623.60	-	1,721.90
La Grande	603.36	342.74	21.18	967.28	629.19	353.84	21.18	1,004.21
Medford	2,913.80	1,674.01	-	4,587.82	3,106.88	1,755.78	-	4,862.66
Medford NWP	971.27	558.00	-	1,529.27	1,035.63	585.29	-	1,620.91
Roseburg	1,120.12	822.57	13.37	1,956.06	1,206.31	862.28	13.40	2,081.99
OR Sub-total	**6,656.61**	**3,995.59**	**34.55**	**10,686.75**	**7,076.31**	**4,180.79**	**34.58**	**11,291.68**
Spokane	13,382.82	7,844.10	543.11	21,770.03	14,304.62	8,282.81	561.48	23,148.91
Spokane NWP	5,735.49	3,361.76	232.76	9,330.01	6,130.55	3,549.77	240.64	9,920.96
WA/ID Sub-total	**19,118.31**	**11,205.86**	**775.87**	**31,100.04**	**20,435.17**	**11,832.58**	**802.12**	**33,069.87**
Case #7 Total	**25,774.92**	**15,201.45**	**810.42**	**41,786.79**	**27,511.48**	**16,013.37**	**836.70**	**44,361.55**

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

Area	2010/2011 Residential	2010/2011 Commercial	2010/2011 Firm Industrial	2010/2011 Total	2011/2012 Residential	2011/2012 Commercial	2011/2012 Firm Industrial	2011/2012 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
WA/ID 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
WA/ID 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
WA/ID 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 (MDth)
By Class (Net of DSM Savings)

Area	2012/2013 Residential	2012/2013 Commercial	2012/2013 Firm Industrial	2012/2013 Total	2013/2014 Residential	2013/2014 Commercial	2013/2014 Firm Industrial	2013/2014 Total
Case #2								
Klam Falls	1,058.59	610.62	-	1,669.21	1,077.73	622.15	-	1,699.88
La Grande	615.60	348.49	21.18	985.27	626.69	353.09	21.18	1,000.96
Medford	3,085.95	1,729.49	-	4,815.44	3,185.47	1,774.34	-	4,959.81
Medford NWP	1,028.65	576.50	-	1,605.15	1,061.82	591.45	-	1,653.27
Roseburg	1,229.73	857.89	13.31	2,100.93	1,282.30	881.74	13.30	2,177.35
OR Sub-total	**7,018.52**	**4,122.98**	**34.49**	**11,175.99**	**7,234.02**	**4,222.76**	**34.49**	**11,491.26**
Spokane	14,432.95	8,201.81	557.01	23,191.77	14,934.98	8,396.78	564.98	23,896.74
Spokane NWP	6,182.53	3,515.06	238.72	9,936.31	6,397.26	3,598.62	242.13	10,238.01
WA/ID Sub-total	**20,615.48**	**11,716.87**	**795.73**	**33,128.09**	**21,332.24**	**11,995.39**	**807.11**	**34,134.74**
Case #2 Total	**27,634.00**	**15,839.85**	**830.22**	**44,304.08**	**28,566.26**	**16,218.15**	**841.60**	**45,626.01**
Case #6								
Klam Falls	904.33	544.26	-	1,448.59	907.24	548.30	-	1,455.54
La Grande	533.16	314.03	21.18	868.37	535.02	315.20	21.18	871.41
Medford	2,528.97	1,496.45	-	4,025.42	2,563.65	1,513.80	-	4,077.44
Medford NWP	842.99	498.82	-	1,341.81	854.55	504.60	-	1,359.15
Roseburg	1,003.07	749.77	13.16	1,765.99	1,024.04	759.70	13.15	1,796.88
OR Sub-total	**5,812.52**	**3,603.32**	**34.34**	**9,450.18**	**5,884.50**	**3,641.61**	**34.33**	**9,560.43**
Spokane	11,985.22	6,964.81	512.77	19,462.80	12,180.64	7,026.41	515.94	19,722.99
Spokane NWP	5,136.52	2,984.92	219.76	8,341.20	5,220.27	3,011.32	221.12	8,452.71
WA/ID Sub-total	**17,121.74**	**9,949.73**	**732.53**	**27,804.00**	**17,400.91**	**10,037.73**	**737.06**	**28,175.71**
Case #6 Total	**22,934.27**	**13,553.05**	**766.87**	**37,254.18**	**23,285.41**	**13,679.34**	**771.39**	**37,736.14**
Case #7								
Klam Falls	1,224.79	678.16	-	1,902.95	1,265.75	698.80	-	1,964.56
La Grande	700.43	383.39	21.18	1,105.00	722.45	392.43	21.18	1,136.07
Medford	3,660.37	1,968.95	-	5,629.32	3,836.46	2,046.53	-	5,883.00
Medford NWP	1,220.12	656.32	-	1,876.44	1,278.82	682.18	-	1,961.00
Roseburg	1,465.43	968.58	13.45	2,447.46	1,554.63	1,008.47	13.46	2,576.56
OR Sub-total	**8,271.14**	**4,655.40**	**34.63**	**12,961.17**	**8,658.12**	**4,828.42**	**34.64**	**13,521.18**
Spokane	17,084.65	9,482.81	601.79	27,169.24	17,968.29	9,839.00	615.36	28,422.65
Spokane NWP	7,321.99	4,064.06	257.91	11,643.96	7,700.69	4,216.72	263.73	12,181.14
WA/ID Sub-total	**24,406.64**	**13,546.87**	**859.69**	**38,813.21**	**25,668.98**	**14,055.72**	**879.09**	**40,603.79**
Case #7 Total	**32,677.78**	**18,202.27**	**894.32**	**51,774.38**	**34,327.10**	**18,884.14**	**913.73**	**54,124.97**

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

Area	2014/2015 Residential	2014/2015 Commercial	2014/2015 Firm Industrial	2014/2015 Total	2015/2016 Residential	2015/2016 Commercial	2015/2016 Firm Industrial	2015/2016 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
WA/ID 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	12,558.70	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
WA/ID 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
WA/ID 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 (MDth)
By Class (Net of DSM Savings)

Area	2016/2017 Residential	2016/2017 Commercial	2016/2017 Firm Industrial	2016/2017 Total	2017/2018 Residential	2017/2018 Commercial	2017/2018 Firm Industrial	2017/2018 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
WA/ID 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
WA/ID 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
WA/ID 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 (MDth)
By Class (Net of DSM Savings)

Area	2018/2019 Residential	2018/2019 Commercial	2018/2019 Firm Industrial	2018/2019 Total	2019/2020 Residential	2019/2020 Commercial	2019/2020 Firm Industrial	2019/2020 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
WA/ID 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
WA/ID 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
WA/ID 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**	**64,420.07**	**42,790.53**	**22,882.55**	**1,004.11**	**66,677.19**

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

Area	2020/2021 Residential	2020/2021 Commercial	2020/2021 Firm Industrial	2020/2021 Total	2021/2022 Residential	2021/2022 Commercial	2021/2022 Firm Industrial	2021/2022 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
WA/ID 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
WA/ID 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
WA/ID 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 (MDth)
By Class (Net of DSM Savings)

Area	2022/2023 Residential	2022/2023 Commercial	2022/2023 Firm Industrial	2022/2023 Total	2023/2024 Residential	2023/2024 Commercial	2023/2024 Firm Industrial	2023/2024 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
WA/ID 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
WA/ID 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
WA/ID 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 (MDth)
By Class (Net of DSM Savings)

Area	2024/2025 Residential	2024/2025 Commercial	2024/2025 Firm Industrial	2024/2025 Total	2025/2026 Residential	2025/2026 Commercial	2025/2026 Firm Industrial	2025/2026 Total
Case #2								
Klam Falls	1,353.27	797.59	-	2,150.86	1,368.53	802.78	-	2,171.31
La Grande	746.25	403.06	21.18	1,170.49	752.70	404.77	21.18	1,178.65
Medford	4,314.93	2,372.99	-	6,687.92	4,365.16	2,391.71	-	6,756.87
Medford NWP	1,438.31	791.00	-	2,229.31	1,455.05	797.24	-	2,252.29
Roseburg	1,944.59	1,154.17	13.18	3,111.94	1,969.50	1,160.90	13.18	3,143.58
OR Sub-total	**9,797.35**	**5,518.81**	**34.36**	**15,350.52**	**9,910.95**	**5,557.39**	**34.36**	**15,502.70**
Spokane	19,162.93	10,125.19	618.85	29,906.97	19,287.69	10,169.53	620.11	30,077.33
Spokane NWP	8,210.10	4,339.37	265.22	12,814.69	8,263.57	4,358.37	265.76	12,887.70
WA/ID Sub-total	**27,373.03**	**14,464.56**	**884.07**	**42,721.66**	**27,551.26**	**14,527.90**	**885.87**	**42,965.02**
Case #2 Total	**37,170.37**	**19,983.37**	**918.44**	**58,072.18**	**37,462.21**	**20,085.29**	**920.23**	**58,467.73**
Case #6								
Klam Falls	1,024.22	631.30	-	1,655.52	1,034.99	634.33	-	1,669.32
La Grande	582.57	336.76	21.18	940.51	586.84	337.80	21.18	945.83
Medford	3,069.59	1,795.85	-	4,865.44	3,100.52	1,806.05	-	4,906.57
Medford NWP	1,023.20	598.62	-	1,621.81	1,033.51	602.02	-	1,635.52
Roseburg	1,330.59	888.84	13.04	2,232.47	1,344.74	892.48	13.04	2,250.26
OR Sub-total	**7,030.15**	**4,251.37**	**34.22**	**11,315.75**	**7,100.61**	**4,272.68**	**34.22**	**11,407.51**
Spokane	14,079.64	7,763.55	538.86	22,382.06	14,144.86	7,786.28	539.49	22,470.63
Spokane NWP	6,031.55	3,327.24	230.94	9,589.72	6,059.50	3,336.98	231.21	9,627.68
WA/ID Sub-total	**20,111.19**	**11,090.79**	**769.80**	**31,971.78**	**20,204.36**	**11,123.25**	**770.71**	**32,098.32**
Case #6 Total	**27,141.35**	**15,342.16**	**804.02**	**43,287.53**	**27,304.96**	**15,395.93**	**804.93**	**43,505.82**
Case #7								
Klam Falls	1,753.81	993.85	-	2,747.67	1,774.37	1,001.55	-	2,775.91
La Grande	949.97	486.78	21.18	1,457.93	959.02	489.21	21.18	1,469.41
Medford	5,809.78	3,055.36	-	8,865.15	5,882.88	3,083.97	-	8,966.86
Medford NWP	1,936.59	1,018.45	-	2,955.05	1,960.96	1,027.99	-	2,988.95
Roseburg	2,661.64	1,460.75	13.43	4,135.82	2,699.09	1,470.99	13.43	4,183.51
OR Sub-total	**13,111.80**	**7,015.20**	**34.62**	**20,161.61**	**13,276.32**	**7,073.71**	**34.62**	**20,384.64**
Spokane	25,349.16	12,985.69	713.78	39,048.63	25,544.55	13,055.44	715.52	39,315.52
Spokane NWP	10,861.34	5,565.30	305.91	16,732.54	10,945.08	5,595.19	306.65	16,846.92
WA/ID Sub-total	**36,210.50**	**18,550.99**	**1,019.68**	**55,781.17**	**36,489.63**	**18,650.63**	**1,022.18**	**56,162.44**
Case #7 Total	**49,322.30**	**25,566.19**	**1,054.30**	**75,942.78**	**49,765.95**	**25,724.34**	**1,056.79**	**76,547.08**

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

Gas Year Case #2	Klam Falls	La Grande	Medford	Medford NWP	Rosburg	Oregon	Spokane	Spokane NWP	WA/ID	Total
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	WA/ID	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	WA/ID	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 Case #2	Klam Falls	La Grande	Medford	Medford NWP	Roseburg	Oregon	Spokane	Spokane NWP	WA/ID	Total
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	47.78	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**

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

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)

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	1	24	28	
2	42	55	21	22	5	17	6	0	0	0	23	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	18	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	3	7	19	59	
20	27	21	17	5	0	0	0	0	5	9	14	61	
21	30	20	18	5	0	0	0	0	9	9	17	56	
22	30	22	18	13	0	0	0	0	9	7	25	55	
23	22	24	14	19	2	0	0	0	9	15	33	24	
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	6	5	0	2	0	3	9	26	
2	24	19	17	11	12	5	3	3	0	5	10	26	
3	22	21	15	10	14	8	3	1	0	7	16	25	
4	20	24	15	10	11	12	7	0	0	8	17	25	
5	20	22	17	8	15	9	0	0	1	7	18	23	
6	14	21	18	17	13	7	0	0	0	5	18	10	
7	18	19	21	18	9	8	3	0	0	2	22	16	
8	16	18	20	16	9	3	0	0	0	3	19	20	
9	22	15	17	19	10	0	0	0	0	2	21	22	
10	25	21	20	18	12	0	0	2	0	2	24	20	
11	23	19	15	20	9	6	0	1	0	3	18	21	
12	20	16	21	18	8	9	0	0	0	6	12	25	
13	23	32	19	13	5	3	0	0	0	7	9	23	
14	21	48	18	9	12	2	0	0	1	6	7	25	
15	21	47	16	7	14	0	4	0	0	11	12	21	
16	21	48	18	16	11	0	1	0	0	14	16	15	
17	25	31	14	13	12	0	0	0	0	9	15	24	
18	26	19	12	10	7	0	0	0	0	6	15	41	
19	29	16	9	10	6	0	0	0	0	8	14	53	
20	31	19	7	7	4	0	0	0	0	3	12	55	
21	30	16	10	7	5	0	0	0	0	4	15	46	
22	32	22	14	10	4	0	0	0	0	8	27	49	
23	30	21	12	5	0	0	0	0	0	7	25	24	
24	23	19	17	7	1	0	0	1	0	13	26	28	
25	22	23	15	16	2	0	0	3	0	16	27	27	
26	22	21	8	17	4	0	0	1	1	13	26	33	
27	22	16	19	17	3	0	0	0	1	14	20	30	
28	23	15	21	14	0	5	0	0	2	20	21	24	
29	15	14	20	12	0	2	1	0	4	19	19	22	
30	15	0	21	10	1	1	0	2	1	20	10	20	
31	24	0	19	0	3	0	0	3	0	18	0	19	
	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	6	20	28	66	
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
		85.5%	86.4%	85.7%
2006	9.91	8.47	8.56	8.49
2007	7.20	6.16	6.22	6.17
2008	6.80	5.82	5.88	5.83
2009	6.20	5.30	5.36	5.31
2010	6.00	5.13	5.19	5.14
2011	6.00	5.13	5.19	5.14
2012	6.20	5.30	5.36	5.31
2013	6.40	5.47	5.53	5.49
2014	6.60	5.65	5.70	5.66
2015	6.75	5.77	5.83	5.79
2016	7.15	6.12	6.18	6.13
2017	7.70	6.59	6.66	6.60
2018	8.10	6.93	7.00	6.94
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

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%

AECO		January	February	March	April	May	June	July	August	September	October	November	December
		111%	111%	109%	96%	94%	95%	95%	96%	95%	96%	100%	104%
2006	8.47											8.48	8.83
2007	6.16	6.81	6.81	6.70	5.89	5.79	5.82	5.86	5.88	5.87	5.89	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	6.28	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		111%	111%	109%	96%	94%	95%	95%	96%	95%	96%	100%	104%
		January	February	March	April	May	June	July	August	September	October	November	December
2006	8.56											8.57	8.92
2007	6.22	6.88	6.88	6.78	5.95	5.85	5.88	5.92	5.94	5.93	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	5.88	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	5.36	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	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	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	5.36	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	5.53	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	5.71	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	5.84	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	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	6.66	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	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	7.35	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	7.70	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	7.87	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	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	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	8.40	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		

Rockies		111%	111%	109%	96%	94%	95%	95%	96%	95%	96%	100%	104%
		January	February	March	April	May	June	July	August	September	October	November	December
2006	8.49											8.50	8.85
2007	6.17	6.82	6.82	6.72	5.90	5.80	5.83	5.87	5.90	5.88	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	5.83	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	5.32	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	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	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	5.32	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	5.49	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	5.66	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	5.79	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	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	6.60	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	6.95	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	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	7.63	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	7.80	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	7.98	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	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	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		

Appendix 6.1
Low Price Case

	Nymex	AECo	Sumas	Rockies
		85.5%	86.4%	85.7%
2006	5.08	4.35	4.39	4.36
2007	4.80	4.10	4.15	4.11
2008	4.53	3.88	3.92	3.88
2009	4.28	3.66	3.70	3.67
2010	4.04	3.45	3.49	3.46
2011	4.07	3.48	3.52	3.49
2012	4.10	3.50	3.54	3.51
2013	4.13	3.53	3.57	3.54
2014	4.15	3.55	3.59	3.56
2015	4.18	3.58	3.62	3.59
2016	4.33	3.71	3.75	3.72
2017	4.49	3.84	3.88	3.85
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

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%

AECO		January	February	March	April	May	June	July	August	September	October	November	December
		111%	111%	109%	96%	94%	95%	95%	96%	95%	96%	100%	104%
2006	4.35											4.35	4.53
2007	4.10	4.54	4.54	4.47	3.92	3.86	3.88	3.90	3.92	3.91	3.93	4.11	4.27
2008	3.88	4.28	4.29	4.22	3.71	3.64	3.66	3.68	3.70	3.69	3.71	3.88	4.04
2009	3.66	4.04	4.05	3.98	3.50	3.44	3.46	3.48	3.49	3.49	3.50	3.66	3.81
2010	3.45	3.82	3.82	3.76	3.30	3.25	3.27	3.28	3.30	3.29	3.31	3.46	3.60
2011	3.48	3.85	3.85	3.79	3.33	3.27	3.29	3.31	3.32	3.32	3.33	3.48	3.62
2012	3.50	3.87	3.87	3.81	3.35	3.29	3.31	3.33	3.35	3.34	3.35	3.51	3.65
2013	3.53	3.90	3.90	3.84	3.37	3.32	3.33	3.35	3.37	3.36	3.38	3.53	3.67
2014	3.55	3.93	3.93	3.87	3.40	3.34	3.36	3.38	3.39	3.39	3.40	3.56	3.70
2015	3.58	3.96	3.96	3.90	3.42	3.36	3.38	3.40	3.42	3.41	3.43	3.58	3.73
2016	3.71	4.10	4.10	4.04	3.54	3.48	3.50	3.52	3.54	3.53	3.55	3.71	3.86
2017	3.84	4.25	4.25	4.18	3.67	3.61	3.63	3.65	3.67	3.66	3.68	3.84	4.00
2018	3.98	4.40	4.40	4.33	3.81	3.74	3.76	3.78	3.80	3.79	3.81	3.98	4.15
2019	4.12	4.56	4.56	4.49	3.94	3.88	3.90	3.92	3.94	3.93	3.95	4.13	4.30
2020	4.27	4.72	4.72	4.65	4.09	4.02	4.04	4.06	4.08	4.07	4.09	4.28	4.45
2021	4.41	4.87	4.88	4.80	4.22	4.14	4.17	4.19	4.21	4.20	4.22	4.41	4.59
2022	4.55	5.03	5.03	4.96	4.35	4.28	4.30	4.33	4.35	4.34	4.36	4.55	4.74
2023	4.70	5.19	5.19	5.11	4.49	4.41	4.44	4.47	4.49	4.48	4.50	4.70	4.89
2024	4.85	5.36	5.36	5.28	4.64	4.56	4.58	4.61	4.63	4.62	4.64	4.85	5.05
2025	5.00	5.53	5.53	5.45	4.78	4.70	4.73	4.76	4.78	4.77	4.79		

Appendix 6.1
Low Price Case

Sumas		111%	111%	109%	96%	94%	95%	95%	96%	95%	96%	100%	104%
		January	February	March	April	May	June	July	August	September	October	November	December
2006	4.39											4.39	4.57
2007	4.15	4.58	4.59	4.52	3.97	3.90	3.92	3.94	3.96	3.95	3.97	4.15	4.32
2008	3.92	4.33	4.33	4.26	3.74	3.68	3.70	3.72	3.74	3.73	3.75	3.92	4.08
2009	3.70	4.09	4.09	4.03	3.54	3.48	3.49	3.52	3.53	3.53	3.54	3.70	3.85
2010	3.49	3.86	3.86	3.80	3.34	3.28	3.30	3.32	3.33	3.33	3.34	3.49	3.64
2011	3.52	3.89	3.89	3.83	3.36	3.30	3.32	3.34	3.36	3.35	3.37	3.52	3.66
2012	3.54	3.91	3.91	3.85	3.39	3.33	3.35	3.37	3.38	3.38	3.39	3.54	3.69
2013	3.57	3.94	3.94	3.88	3.41	3.35	3.37	3.39	3.41	3.40	3.41	3.57	3.71
2014	3.59	3.97	3.97	3.91	3.43	3.37	3.39	3.41	3.43	3.42	3.44	3.59	3.74
2015	3.62	4.00	4.00	3.94	3.46	3.40	3.42	3.44	3.45	3.45	3.46	3.62	3.77
2016	3.75	4.14	4.14	4.08	3.58	3.52	3.54	3.56	3.58	3.57	3.59	3.75	3.90
2017	3.88	4.29	4.29	4.23	3.71	3.65	3.67	3.69	3.71	3.70	3.72	3.88	4.04
2018	4.02	4.45	4.45	4.38	3.85	3.78	3.80	3.82	3.84	3.83	3.85	4.02	4.19
2019	4.17	4.61	4.61	4.54	3.98	3.92	3.94	3.96	3.98	3.97	3.99	4.17	4.34
2020	4.32	4.77	4.77	4.70	4.13	4.06	4.08	4.10	4.12	4.12	4.13	4.32	4.50
2021	4.46	4.93	4.93	4.85	4.26	4.19	4.21	4.24	4.26	4.25	4.27	4.46	4.64
2022	4.60	5.08	5.09	5.01	4.40	4.32	4.35	4.37	4.39	4.38	4.40	4.60	4.79
2023	4.75	5.25	5.25	5.17	4.54	4.46	4.49	4.51	4.53	4.53	4.54	4.75	4.94
2024	4.90	5.41	5.42	5.33	4.68	4.60	4.63	4.66	4.68	4.67	4.69	4.90	5.10
2025	5.06	5.59	5.59	5.50	4.83	4.75	4.78	4.81	4.83	4.82	4.84		

Rockies		111%	111%	109%	96%	94%	95%	95%	96%	95%	96%	100%	104%
		January	February	March	April	May	June	July	August	September	October	November	December
2006	4.36											4.36	4.54
2007	4.11	4.55	4.55	4.48	3.93	3.87	3.89	3.91	3.93	3.92	3.94	4.12	4.28
2008	3.88	4.29	4.29	4.23	3.71	3.65	3.67	3.69	3.71	3.70	3.72	3.89	4.05
2009	3.67	4.05	4.05	3.99	3.51	3.45	3.47	3.49	3.50	3.50	3.51	3.67	3.82
2010	3.46	3.83	3.83	3.77	3.31	3.25	3.27	3.29	3.31	3.30	3.31	3.46	3.61
2011	3.49	3.85	3.86	3.80	3.33	3.28	3.30	3.31	3.33	3.32	3.34	3.49	3.63
2012	3.51	3.88	3.88	3.82	3.36	3.30	3.32	3.34	3.35	3.35	3.36	3.51	3.66
2013	3.54	3.91	3.91	3.85	3.38	3.32	3.34	3.36	3.38	3.37	3.38	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	3.41	3.56	3.71
2015	3.59	3.96	3.97	3.90	3.43	3.37	3.39	3.41	3.43	3.42	3.43	3.59	3.74
2016	3.72	4.11	4.11	4.05	3.55	3.49	3.51	3.53	3.55	3.54	3.56	3.72	3.87
2017	3.85	4.26	4.26	4.19	3.68	3.62	3.64	3.66	3.68	3.67	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	3.80	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	3.94	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	4.08	4.10	4.28	4.46
2021	4.42	4.88	4.89	4.81	4.23	4.15	4.18	4.20	4.22	4.21	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	4.35	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	4.49	4.51	4.71	4.90
2024	4.86	5.37	5.37	5.29	4.65	4.57	4.59	4.62	4.64	4.63	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	4.78	4.80		

Appendix 6.1
High Price Case

	Nymex	AECo	Sumas	Rockies
		85.5%	86.4%	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

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%

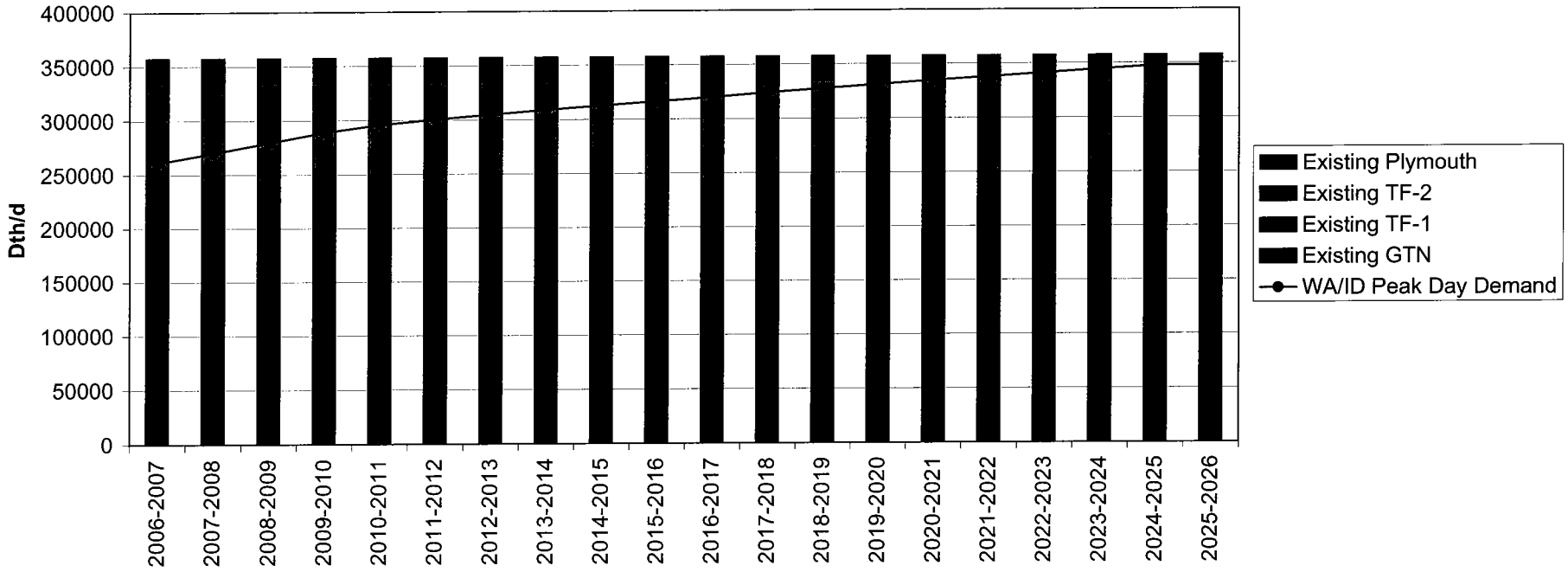
AECO		January	February	March	April	May	June	July	August	September	October	November	December
		111%	111%	109%	96%	94%	95%	95%	96%	95%	96%	100%	104%
2006	9.41											9.41	9.80
2007	8.26	9.13	9.13	8.99	7.90	7.76	7.80	7.85	7.89	7.87	7.90	8.26	8.60
2008	7.26	8.03	8.03	7.91	6.95	6.83	6.87	6.91	6.94	6.93	6.95	7.27	7.57
2009	6.53	7.22	7.23	7.12	6.25	6.14	6.18	6.21	6.24	6.23	6.26	6.54	6.81
2010	6.29	6.96	6.96	6.85	6.02	5.92	5.95	5.98	6.01	6.00	6.02	6.30	6.56
2011	6.40	7.08	7.08	6.97	6.12	6.02	6.05	6.09	6.12	6.10	6.13	6.41	6.67
2012	6.56	7.25	7.25	7.14	6.27	6.16	6.20	6.23	6.26	6.25	6.28	6.56	6.83
2013	6.72	7.43	7.43	7.32	6.43	6.32	6.35	6.39	6.42	6.41	6.43	6.73	7.00
2014	6.91	7.64	7.64	7.53	6.61	6.50	6.53	6.57	6.60	6.59	6.62	6.92	7.20
2015	7.10	7.85	7.85	7.73	6.79	6.67	6.71	6.75	6.78	6.77	6.80	7.11	7.40
2016	7.28	8.05	8.05	7.93	6.96	6.85	6.88	6.92	6.96	6.94	6.97	7.29	7.59
2017	7.46	8.25	8.25	8.12	7.13	7.01	7.05	7.09	7.13	7.11	7.14	7.46	7.77
2018	7.64	8.45	8.45	8.32	7.31	7.18	7.22	7.26	7.30	7.28	7.31	7.65	7.96
2019	7.82	8.64	8.65	8.51	7.48	7.35	7.39	7.43	7.47	7.46	7.49	7.82	8.15
2020	7.99	8.84	8.84	8.70	7.64	7.51	7.56	7.60	7.64	7.62	7.65	8.00	8.33
2021	8.17	9.03	9.04	8.90	7.82	7.68	7.73	7.77	7.81	7.79	7.82	8.18	8.51
2022	8.35	9.23	9.24	9.09	7.99	7.85	7.90	7.94	7.98	7.96	8.00	8.36	8.70
2023	8.54	9.44	9.44	9.29	8.16	8.02	8.07	8.12	8.15	8.14	8.17	8.54	8.89
2024	8.72	9.64	9.65	9.50	8.34	8.20	8.25	8.29	8.33	8.32	8.35	8.73	9.09
2025	8.91	9.85	9.85	9.70	8.52	8.38	8.42	8.47	8.51	8.50	8.53		

Appendix 6.1
High Price Case

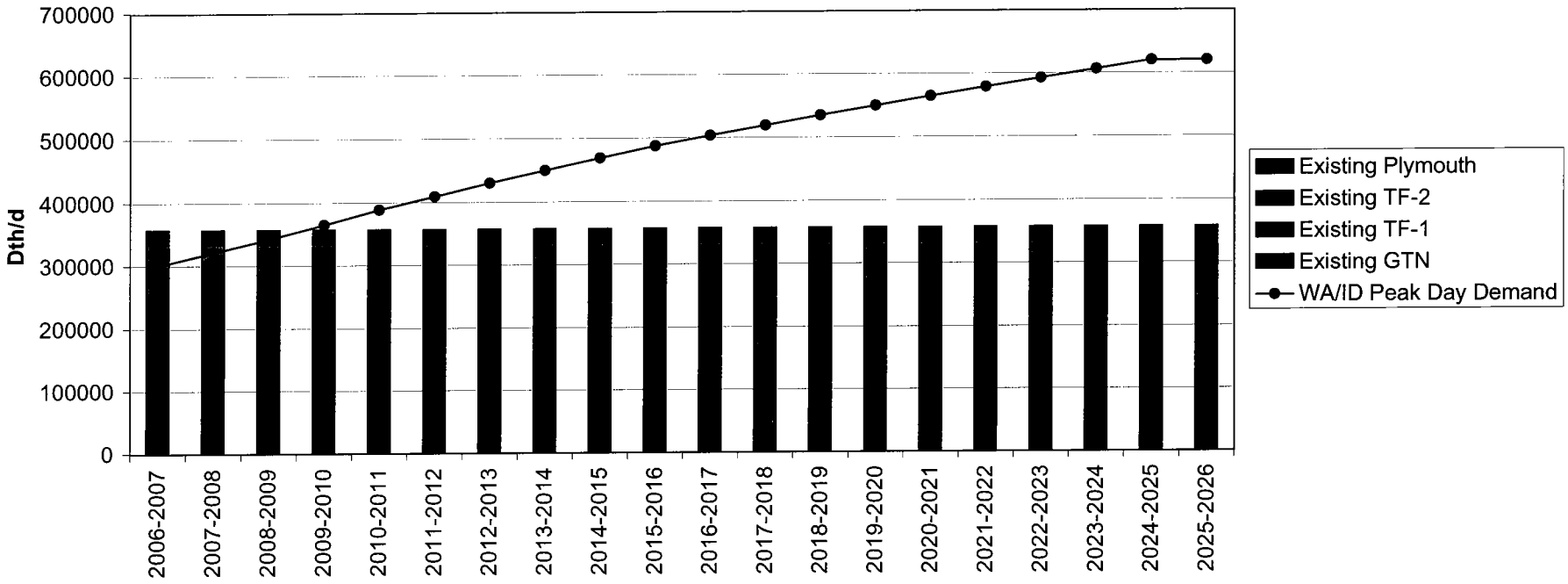
Sumas		111%	111%	109%	96%	94%	95%	95%	96%	95%	96%	100%	104%
		January	February	March	April	May	June	July	August	September	October	November	December
2006	9.51											9.51	9.90
2007	8.34	9.22	9.23	9.08	7.98	7.84	7.89	7.93	7.97	7.96	7.99	8.35	8.69
2008	7.34	8.11	8.12	7.99	7.02	6.90	6.94	6.98	7.01	7.00	7.03	7.35	7.65
2009	6.60	7.30	7.30	7.19	6.31	6.21	6.24	6.28	6.31	6.30	6.32	6.61	6.88
2010	6.36	7.03	7.03	6.92	6.08	5.98	6.01	6.05	6.07	6.06	6.09	6.36	6.62
2011	6.47	7.15	7.15	7.04	6.19	6.08	6.11	6.15	6.18	6.17	6.19	6.47	6.74
2012	6.62	7.32	7.33	7.21	6.33	6.23	6.26	6.30	6.33	6.32	6.34	6.63	6.90
2013	6.79	7.51	7.51	7.40	6.49	6.38	6.42	6.46	6.49	6.48	6.50	6.80	7.07
2014	6.99	7.72	7.73	7.61	6.68	6.57	6.60	6.64	6.67	6.66	6.69	6.99	7.28
2015	7.18	7.93	7.93	7.81	6.86	6.74	6.78	6.82	6.85	6.84	6.87	7.18	7.47
2016	7.36	8.14	8.14	8.01	7.04	6.92	6.96	7.00	7.03	7.02	7.04	7.36	7.67
2017	7.54	8.33	8.34	8.21	7.21	7.08	7.12	7.17	7.20	7.19	7.22	7.54	7.85
2018	7.72	8.53	8.54	8.41	7.38	7.26	7.30	7.34	7.37	7.36	7.39	7.73	8.04
2019	7.90	8.73	8.74	8.60	7.56	7.43	7.47	7.51	7.55	7.53	7.56	7.91	8.23
2020	8.08	8.93	8.93	8.80	7.72	7.59	7.64	7.68	7.72	7.70	7.73	8.08	8.41
2021	8.26	9.13	9.13	8.99	7.90	7.76	7.81	7.85	7.89	7.87	7.91	8.26	8.60
2022	8.44	9.33	9.33	9.19	8.07	7.93	7.98	8.03	8.06	8.05	8.08	8.45	8.79
2023	8.63	9.54	9.54	9.39	8.25	8.11	8.15	8.20	8.24	8.23	8.26	8.63	8.99
2024	8.82	9.74	9.75	9.60	8.43	8.29	8.33	8.38	8.42	8.40	8.44	8.82	9.18
2025	9.00	9.95	9.96	9.80	8.61	8.46	8.51	8.56	8.60	8.59	8.62		

Rockies		111%	111%	109%	96%	94%	95%	95%	96%	95%	96%	100%	104%
		January	February	March	April	May	June	July	August	September	October	November	December
2006	9.43											9.44	9.82
2007	8.28	9.15	9.15	9.01	7.91	7.78	7.82	7.87	7.90	7.89	7.92	8.28	8.62
2008	7.28	8.05	8.05	7.93	6.96	6.84	6.88	6.92	6.95	6.94	6.97	7.28	7.58
2009	6.55	7.24	7.24	7.13	6.26	6.16	6.19	6.23	6.26	6.24	6.27	6.55	6.82
2010	6.31	6.97	6.97	6.87	6.03	5.93	5.96	6.00	6.02	6.01	6.04	6.31	6.57
2011	6.42	7.09	7.09	6.99	6.14	6.03	6.06	6.10	6.13	6.12	6.14	6.42	6.68
2012	6.57	7.26	7.27	7.15	6.28	6.18	6.21	6.25	6.28	6.26	6.29	6.57	6.84
2013	6.74	7.45	7.45	7.33	6.44	6.33	6.37	6.40	6.43	6.42	6.45	6.74	7.02
2014	6.93	7.66	7.66	7.54	6.63	6.51	6.55	6.59	6.62	6.61	6.63	6.93	7.22
2015	7.12	7.87	7.87	7.75	6.80	6.69	6.73	6.77	6.80	6.78	6.81	7.12	7.41
2016	7.30	8.07	8.07	7.95	6.98	6.86	6.90	6.94	6.97	6.96	6.99	7.30	7.60
2017	7.48	8.26	8.27	8.14	7.15	7.03	7.07	7.11	7.14	7.13	7.16	7.48	7.79
2018	7.66	8.46	8.47	8.34	7.32	7.20	7.24	7.28	7.31	7.30	7.33	7.66	7.98
2019	7.84	8.66	8.67	8.53	7.49	7.37	7.41	7.45	7.49	7.47	7.50	7.84	8.16
2020	8.01	8.86	8.86	8.72	7.66	7.53	7.57	7.62	7.65	7.64	7.67	8.02	8.35
2021	8.19	9.05	9.06	8.92	7.83	7.70	7.74	7.79	7.82	7.81	7.84	8.20	8.53
2022	8.37	9.25	9.26	9.11	8.01	7.87	7.91	7.96	8.00	7.98	8.01	8.38	8.72
2023	8.56	9.46	9.46	9.32	8.18	8.04	8.09	8.13	8.17	8.16	8.19	8.56	8.91
2024	8.74	9.66	9.67	9.52	8.36	8.22	8.26	8.31	8.35	8.34	8.37	8.75	9.11
2025	8.93	9.87	9.88	9.72	8.54	8.39	8.44	8.49	8.53	8.51	8.55		

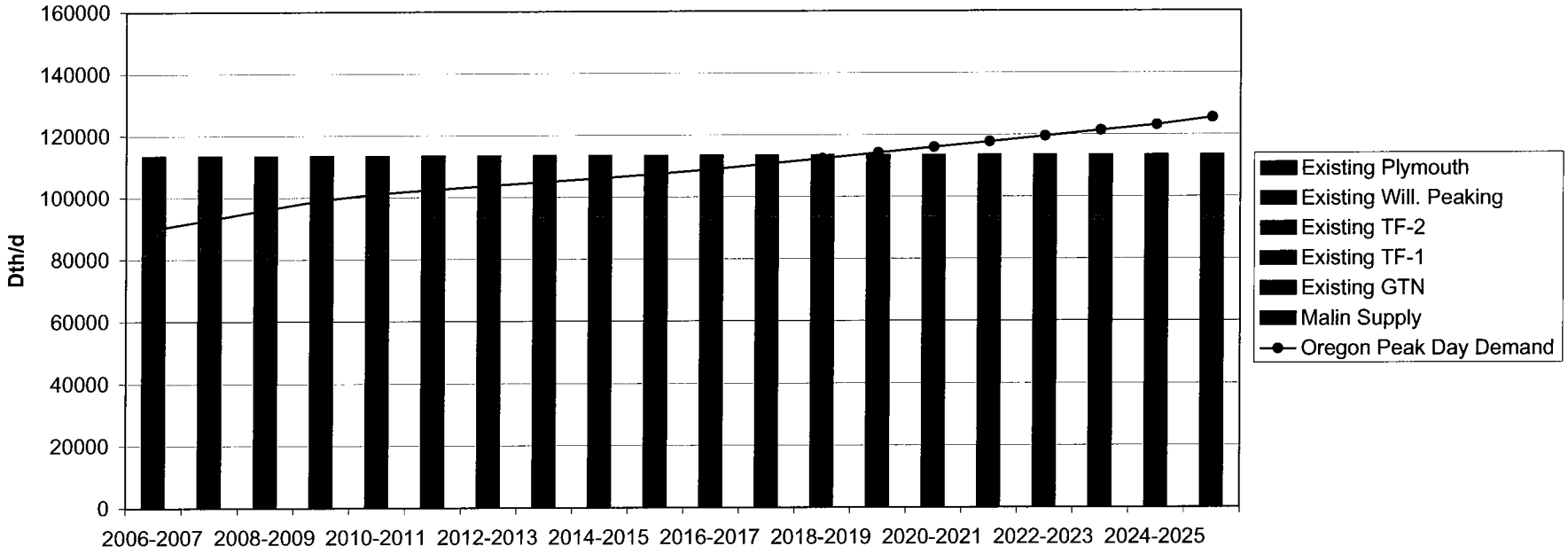
Appendix 6.2 - WA/ID Existing Resources vs. Peak Day Demand (Net of DSM Savings) Low Demand Case



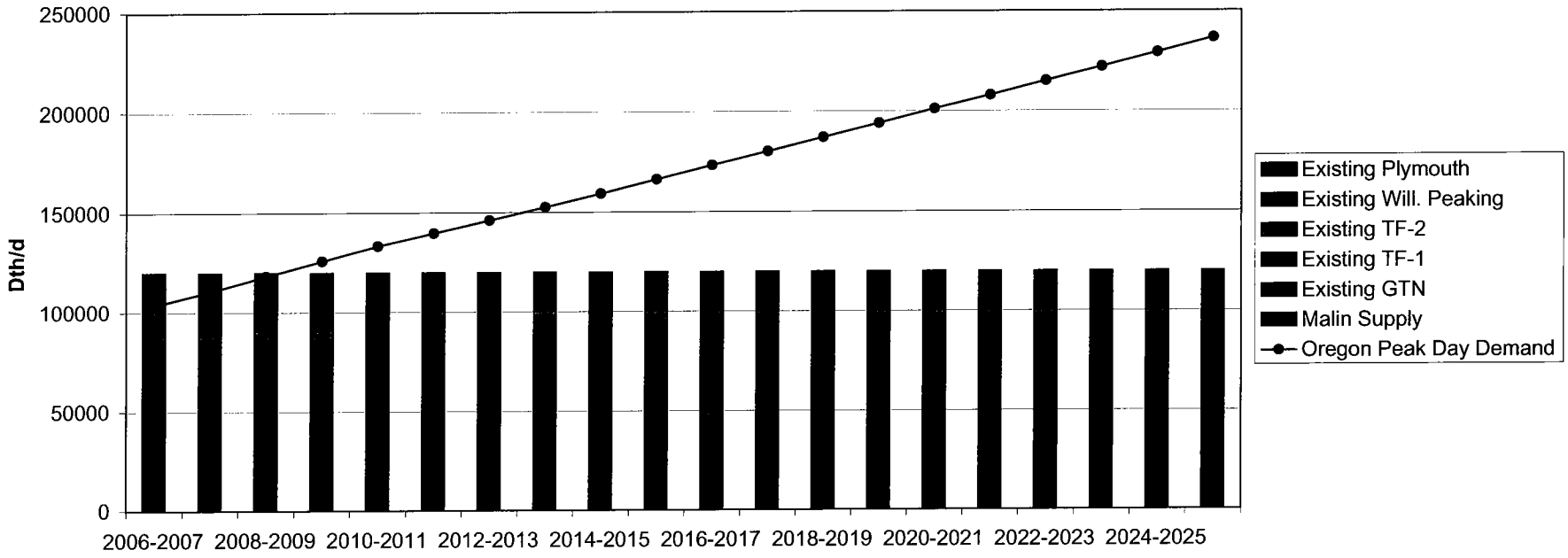
Appendix 6.2 - WA/ID Existing Resources vs. Peak Day Demand (Net of DSM Savings) High Demand Case



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



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

Appendix 6.4 - Supply-Side Resources

Potential Additional Supply Resources

Facility/Location	Annual (Dth)	Daily (Dth) Delivery	Year Avail. 3/	Lead Time	Investment Cost $ (000's)	Variable Cost $ (000's)	Notes
WA/ID							
AECO Supply	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Sumas/Station 2	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Rockies	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
GTN/Stanfield	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 Terasen. 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	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	8,000	none	Expansion of JP facility delivery capability. Does not include transport and therefore does not meet peak-day needs
WA/ID Satellite LNG #1	90,000	15,000	5	4 years	10,000	Commodity + $1.5MM/yr	Variable costs equal the liquefaction charges and transportation of the LNG
WA/ID Satellite LNG #2	90,000	15,000	10	4 years	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	Option is economically unfeasible given load size vs. facility requirements
Oregon							
AECO Supply	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Sumas/Station 2 Supply	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Rockies Supply	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via firm transportation
Malin Supply	Varies	Varies	1	<1 year	n/a	Commodity	Additional supply via backhaul transportation
KFalls Lateral Purchase 2/	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	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	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	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	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 Malin 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/if utilized

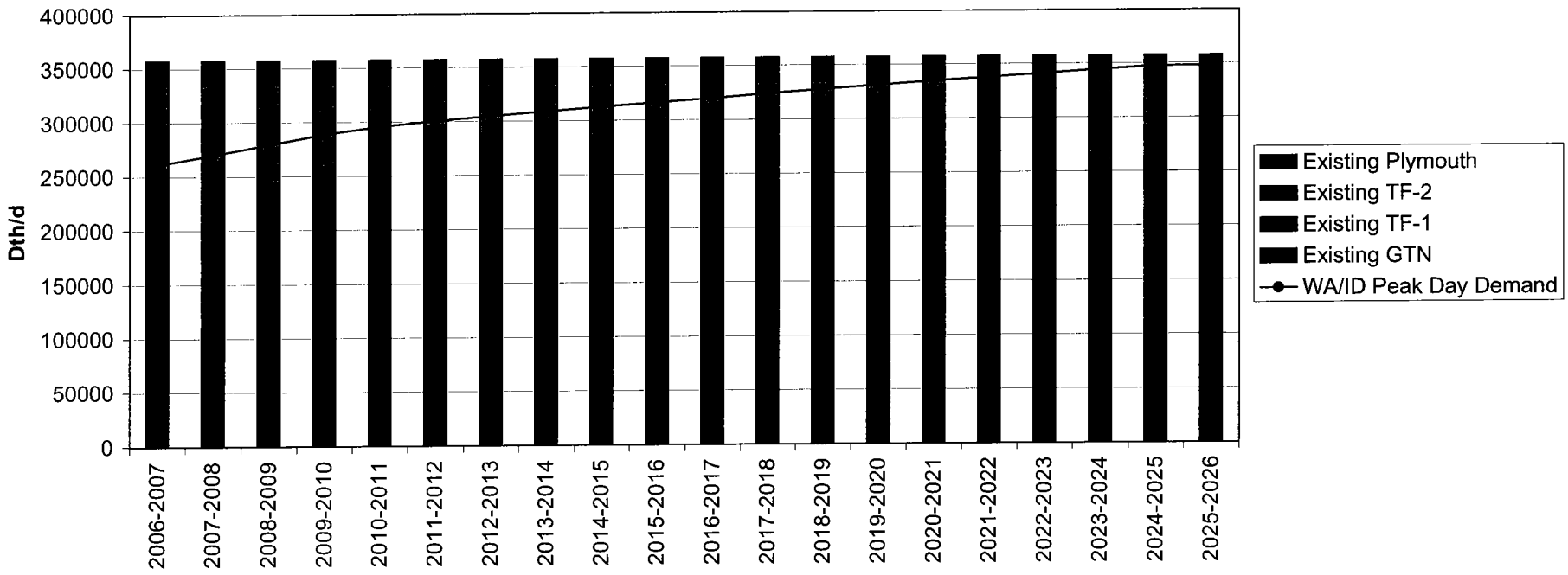
Appendix 6.4 - Supply-Side Resources

Potential Contract Demand Expansions/Additions

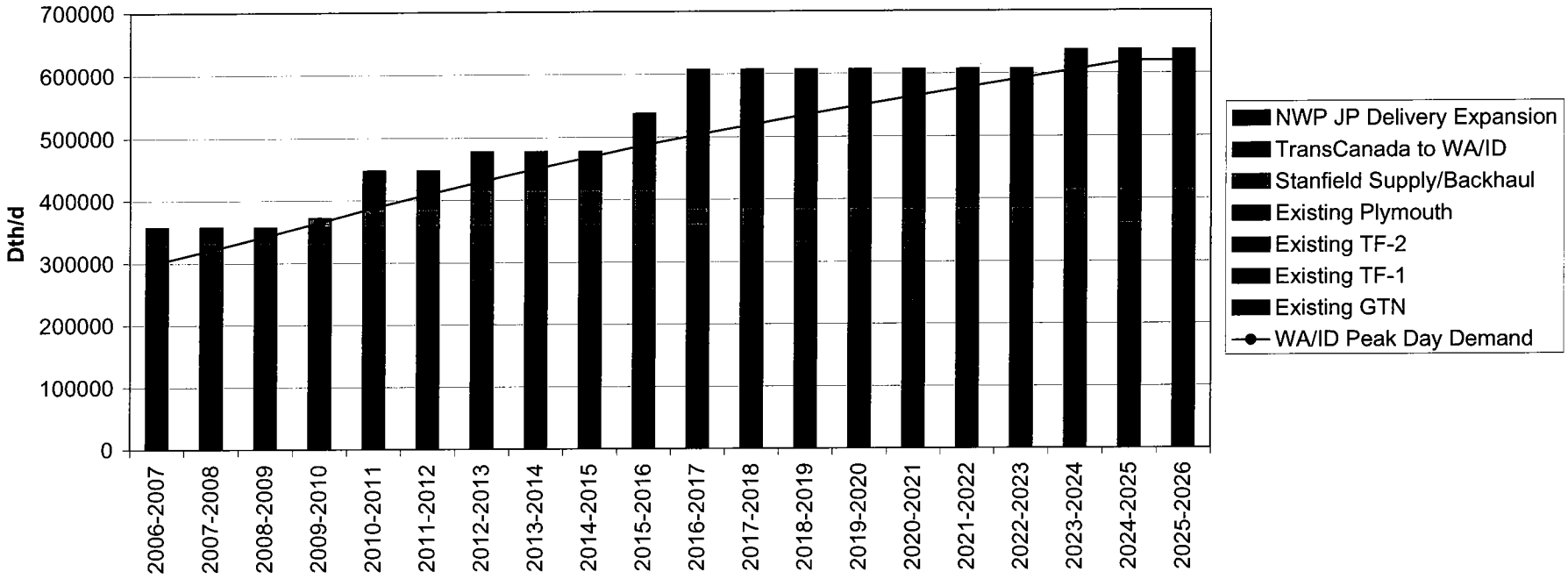
Location	Pipeline/ Facility	Identification	Daily (Dth) Capacity	Year 3/ Available	Lead Time	Capital Cost $ (000's)	Cost Dth 4/	Notes
WA/ID								
NWP Zone 20 Spokane Area	NWP	NWP from GTN #1	22,000	2	2 years	4,700	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	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 WA/ID	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 WA/ID	TC/GTN	AECo to Stanfield #2	25,000	5	<1 year	n/a	GTN/TC Rates	Existing available capacity from AECO to Stanfield.
TransCanada AECO to WA/ID	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 WA/ID	TC/GTN	AECo to Stanfield #4	60,000	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 WA/ID	TC/GTN	AECo to Stanfield #5	60,000	5	<1 year	n/a	GTN/TC Rates	Existing available capacity from AECO to Stanfield.
TransCanada AECO to WA/ID	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 WA/ID
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 WA/ID
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 WA/ID
NWP Zone 30,26,20 1/	NWP	NWP Sumas to WA/ID #1	20,000	5	4 years	n/a	NWP Rate X 3.0	Transport Expansion for Sumas to WA/ID
NWP Zone 30,26,20 1/	NWP	NWP Sumas to WA/ID #2	20,000	10	4 years	n/a	NWP Rate X 3.0	Transport Expansion for Sumas to WA/ID
NWP Zone 24 & 20 1/	NWP	NWP Rocks to WA/ID #1	20,000	5	4 years	n/a	NWP Rate X 3.0	Transport Expansion for Rocks to WA/ID
NWP Zone 24 & 20 1/	NWP	NWP Rocks to WA/ID #2	20,000	10	4 years	n/a	NWP Rate X 3.0	Transport Expansion for Rocks to WA/ID
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
Medford Lateral Expansion 2/ 6/	GTN	GTN Med. Lateral Expansion #4	20,000	12	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 deliveries only
Klamath Capacity 2/	GTN	GTN Med. Lateral Expansion #6	10,000	15	2 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Klamath deliveries only
NWP Zone 30,26,16,12,9,8 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	5	4 years	n/a	NWP Rate X 5.0	Transport Expansion for Rocks to Medford
NWP Zone 26,16,12,9,8 1/	NWP	NWP JP to Medford Exp. #1	20,000	4	4 years	n/a	NWP Rate X 3.5	Transport Expansion for JP to Medford
California Storage 5/	PG&E	PG&E CGT Storage Service #1	10,000	2	<1 year	n/a	$.55 + Commodity	Assumes 1,000,000 inventory. Current contracting practices are one-year terms.
California Storage 5/	PG&E	PG&E CGT Storage Service #2	10,000	5	<1 year	n/a	$.50 + 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	CGT, GTN Rates	Current PG&E CGT, 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	CGT, GTN Rates	Current PG&E CGT, GTN mainline and Medford rates. Combined with CA storage above

1/ Assumes additional participation in expansion by other customers
2/ Utilizes Malin 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 inflation rate
5/ Requires redelivery 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.

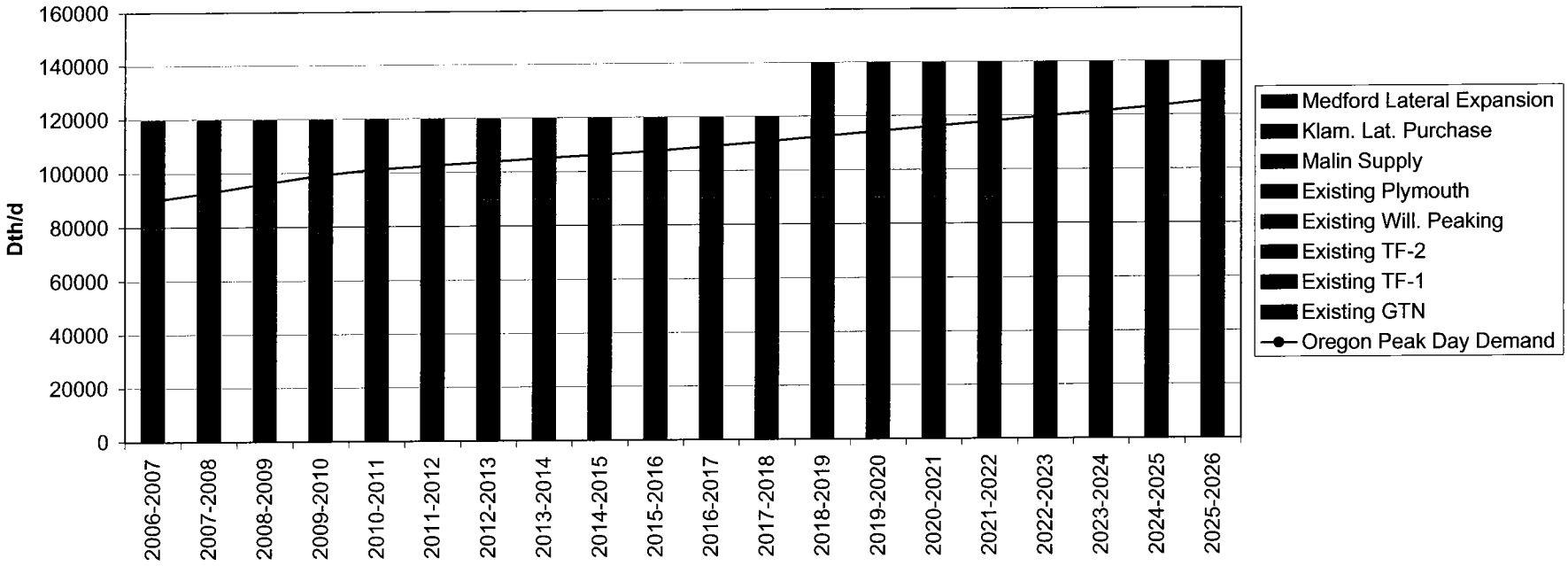
Appendix 6.5 - WA/ID Existing Resources vs. Peak Day Demand (Net of DSM Savings) Low Demand Case



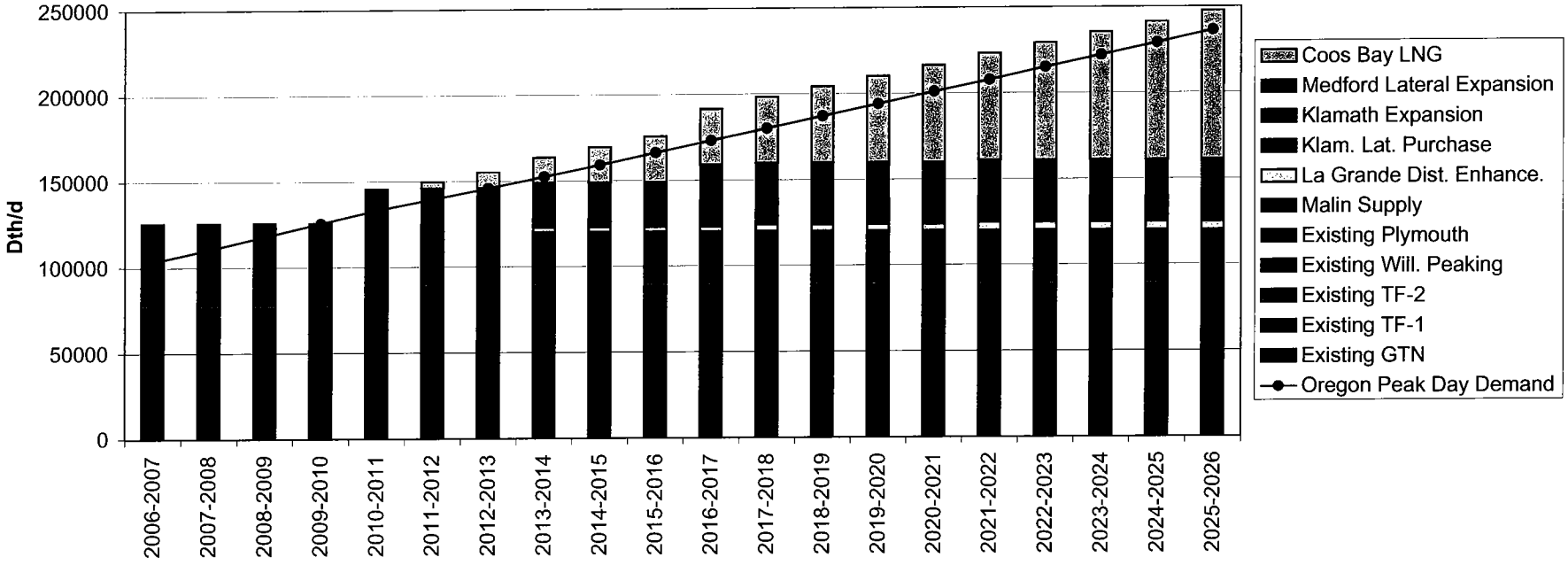
Appendix 6.5 - WA/ID Existing & Least Cost Resources vs. Peak Day Demand (Net of DSM Savings) - High Demand Case



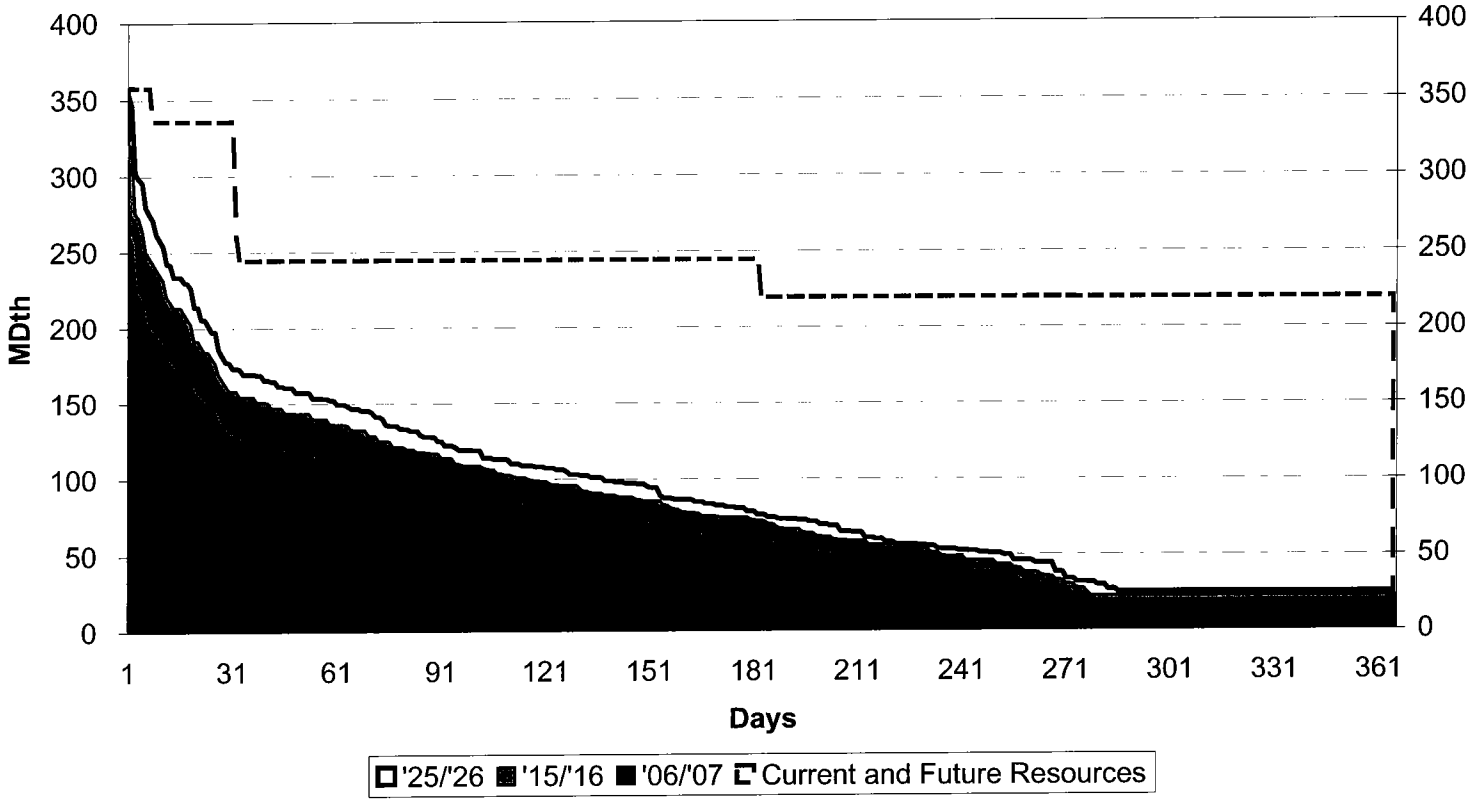
Appendix 6.5 - Oregon Existing & Least Cost Resources vs. Peak Day Demand (Net of DSM Savings) - Low Demand Case



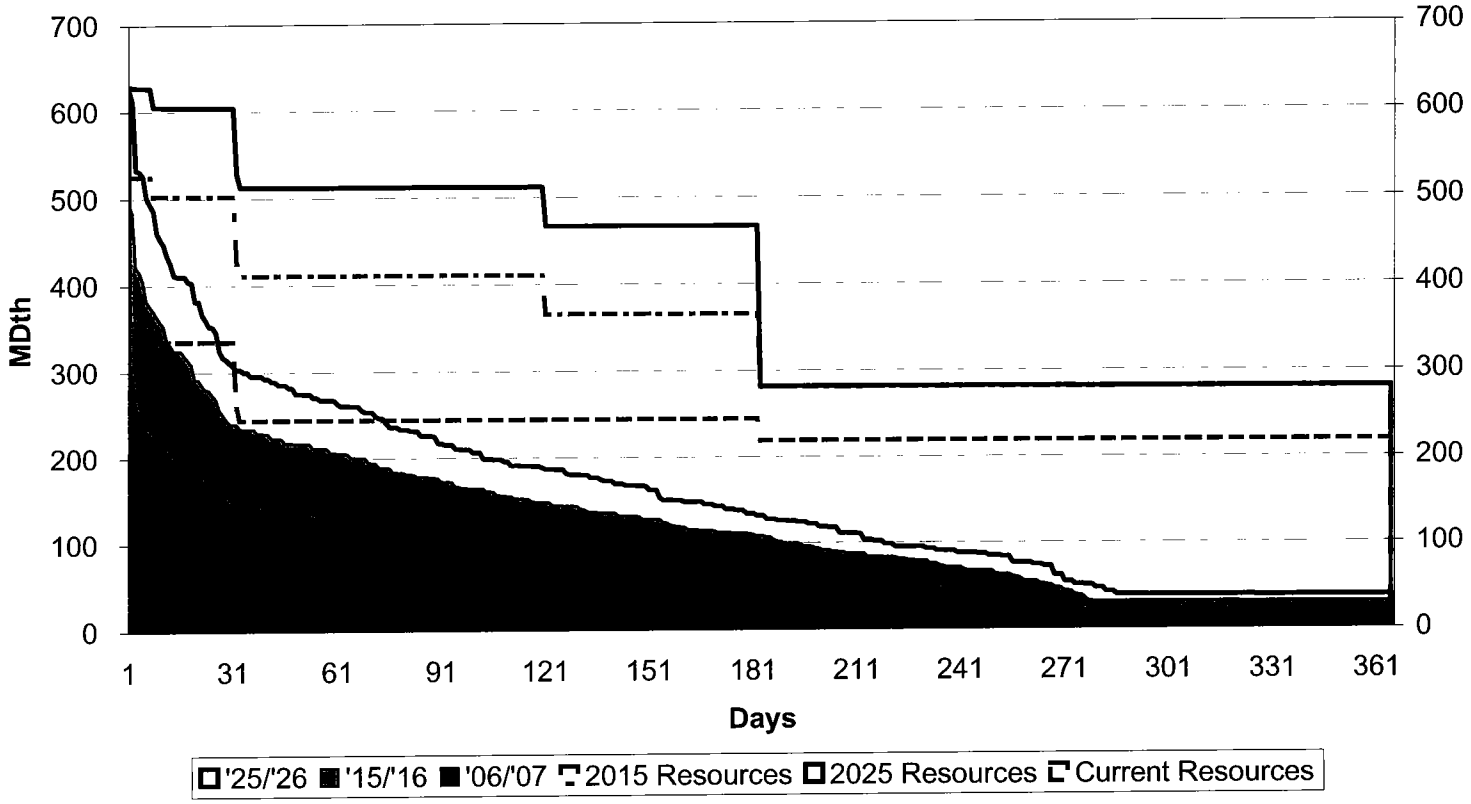
Appendix 6.5 - Oregon Existing & Least Cost Resources vs. Peak Day Demand (Net of DSM Savings) - High Demand Case



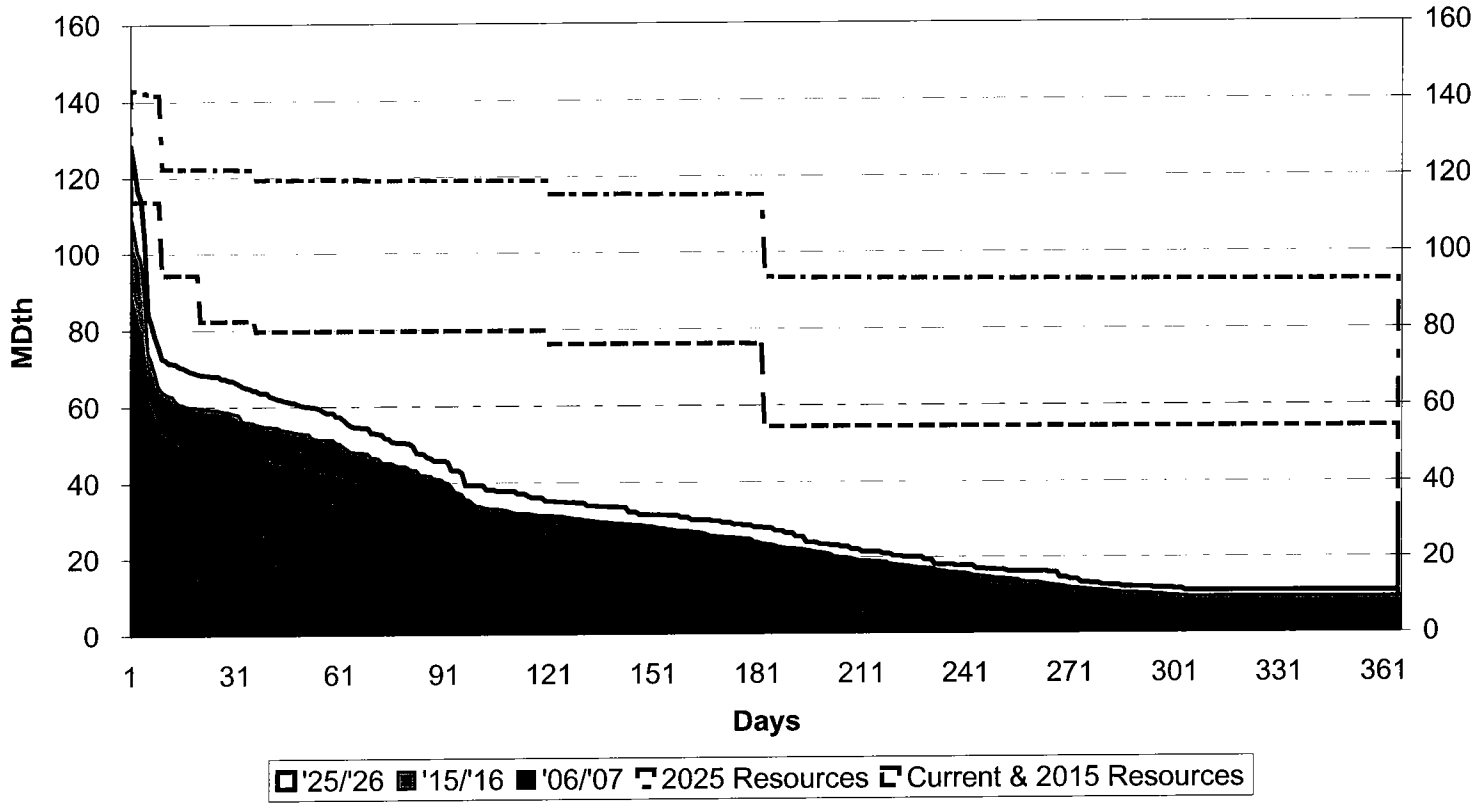
App. 6.6 - Firm Load Duration Curve & Resource Stack (with DSM)
Average/Actual Weather with Design Day
Low Demand Case - Washington/Idaho



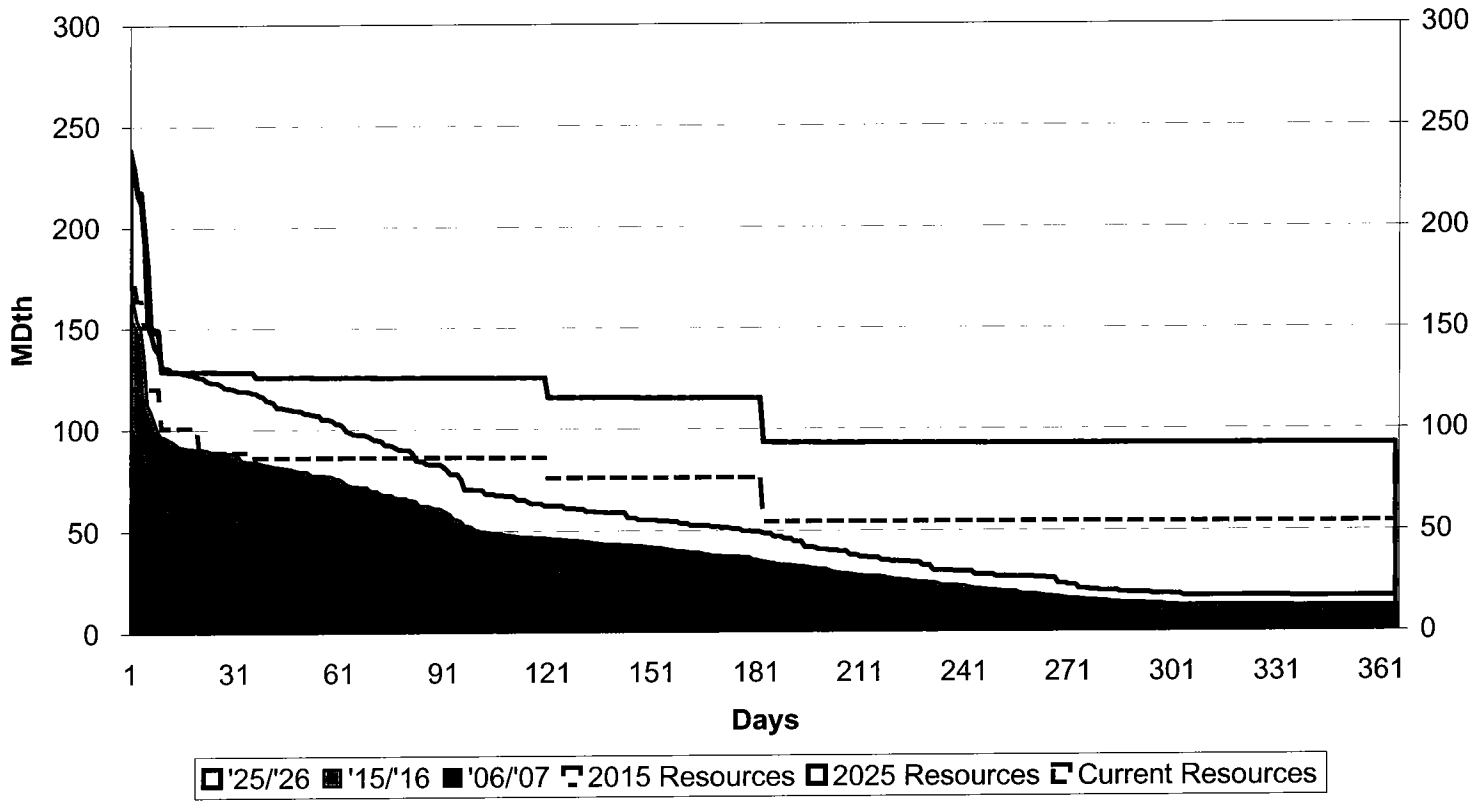
App. 6.6 - Firm Load Duration Curve & Resource Stack (with DSM)
Average/Actual Weather with Design Day
High Demand Case - Washington/Idaho



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



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 aproximately 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
4	Medford/Roseburg	Transportation	20,000	November 2019	GTN's Med. Lat. Rate	GTN expansion of the Medford Lateral. Assumed current lateral rates, escalated for inflation, for expansion. Item #3 above required to facilitate this option.

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 aproximately 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 faiclity and deliveries via Pacific Connector Pipeline. Cost is assumed to be AECO plus $1.50. Quantities vary by peak requriements 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	

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

Case	Gas Year	Annual Klamath DSM (MDth)	Daily Klamath DSM (MDth/day)	Annual La Grande DSM (MDth)	Daily La Grande DSM (MDth/day)	Annual Medford DSM (MDth)	Daily Medford DSM (MDth/day)	Annual Roseburg DSM (MDth)	Daily Roseburg DSM (MDth/day)	Annual Oregon DSM (MDth)	Daily Oregon DSM (MDth/day)	Annual WA/ID DSM (MDth)	Daily WA/ID DSM (MDth/day)	Annual Total System DSM (MDth)	Daily Total System DSM (MDth/day)
2	2006-2007	9.991	0.027	4.280	0.012	24.781	0.068	5.933	0.016	44.98	0.12	105.038	0.288	150.02	0.41
2	2007-2008	20.043	0.055	8.586	0.024	49.768	0.136	11.903	0.033	90.30	0.25	210.723	0.577	301.02	0.82
2	2008-2009	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
2	2009-2010	39.963	0.109	17.121	0.047	99.122	0.272	23.732	0.065	179.94	0.49	420.153	1.151	600.09	1.64
2	2010-2011	49.953	0.137	21.402	0.059	123.903	0.339	29.665	0.081	224.92	0.62	525.192	1.439	750.11	2.06
2	2011-2012	60.129	0.165	25.757	0.071	149.304	0.409	35.708	0.098	270.90	0.74	621.538	1.703	892.44	2.45
2	2012-2013	69.934	0.192	29.962	0.082	173.464	0.475	41.531	0.114	314.89	0.86	712.033	1.951	1,026.92	2.81
2	2013-2014	79.925	0.219	34.243	0.094	198.245	0.543	47.464	0.130	359.88	0.99	804.429	2.204	1,164.31	3.19
2	2014-2015	89.916	0.246	38.523	0.106	223.026	0.611	53.397	0.146	404.86	1.11	896.826	2.457	1,301.69	3.57
2	2015-2016	100.214	0.275	42.928	0.118	248.840	0.682	59.513	0.163	451.49	1.24	992.248	2.718	1,443.74	3.96
2	2016-2017	100.872	0.276	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
2	2017-2018	100.259	0.275	45.142	0.124	269.794	0.739	65.103	0.178	480.30	1.32	1,087.088	2.978	1,567.39	4.29
2	2018-2019	99.646	0.273	44.853	0.123	267.597	0.733	64.529	0.177	476.62	1.31	1,082.768	2.966	1,559.39	4.27
2	2019-2020	98.970	0.271	44.530	0.122	265.653	0.728	63.951	0.175	473.10	1.30	1,077.291	2.951	1,550.39	4.25
2	2020-2021	97.684	0.268	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
2	2021-2022	95.132	0.261	43.460	0.119	252.750	0.692	60.728	0.166	452.07	1.24	1,054.580	2.889	1,506.65	4.13
2	2022-2023	92.581	0.254	42.973	0.118	244.048	0.669	58.480	0.160	438.08	1.20	1,045.926	2.866	1,484.01	4.07
2	2023-2024	90.289	0.247	42.599	0.117	236.314	0.647	56.391	0.154	425.59	1.17	1,040.305	2.850	1,465.90	4.02
2	2024-2025	87.037	0.238	41.801	0.115	225.549	0.618	53.727	0.147	408.11	1.12	1,017.861	2.789	1,425.98	3.91
2	2025-2026	79.393	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
6	2006-2007	10.053	0.028	4.527	0.012	25.803	0.071	6.023	0.017	46.41	0.13	115.235	0.316	161.64	0.44
6	2007-2008	20.168	0.055	9.080	0.025	51.823	0.142	12.083	0.033	93.16	0.26	231.173	0.633	324.33	0.89
6	2008-2009	30.159	0.083	13.581	0.037	77.410	0.212	18.069	0.050	139.22	0.38	345.703	0.947	484.92	1.33
6	2009-2010	40.212	0.110	18.108	0.050	103.213	0.283	24.092	0.066	185.63	0.51	460.938	1.263	646.56	1.77
6	2010-2011	50.265	0.138	22.635	0.062	129.017	0.353	30.115	0.083	232.03	0.64	576.172	1.579	808.20	2.21
6	2011-2012	60.504	0.166	27.241	0.075	155.470	0.426	36.250	0.099	279.46	0.77	682.889	1.871	962.35	2.64
6	2012-2013	70.371	0.193	31.689	0.087	180.623	0.495	42.161	0.116	324.84	0.89	783.406	2.146	1,108.25	3.04
6	2013-2014	80.424	0.220	36.216	0.099	206.427	0.566	48.184	0.132	371.25	1.02	885.998	2.427	1,257.25	3.44
6	2014-2015	90.477	0.248	40.743	0.112	232.230	0.636	54.207	0.149	417.66	1.14	988.591	2.708	1,406.25	3.85
6	2015-2016	100.840	0.276	45.401	0.124	259.117	0.710	60.416	0.166	465.77	1.28	1,094.500	2.999	1,560.27	4.27
6	2016-2017	100.872	0.276	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
6	2017-2018	100.259	0.275	45.142	0.124	269.794	0.739	65.103	0.178	480.30	1.32	1,087.088	2.978	1,567.39	4.29
6	2018-2019	99.646	0.273	44.853	0.123	267.597	0.733	64.529	0.177	476.62	1.31	1,082.768	2.966	1,559.39	4.27
6	2019-2020	98.970	0.271	44.530	0.122	265.653	0.728	63.951	0.175	473.10	1.30	1,077.292	2.951	1,550.40	4.25
6	2020-2021	97.684	0.268	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
6	2021-2022	95.133	0.261	43.460	0.119	252.750	0.692	60.728	0.166	452.07	1.24	1,054.580	2.889	1,506.65	4.13
6	2022-2023	92.581	0.254	42.973	0.118	244.048	0.669	58.480	0.160	438.08	1.20	1,045.925	2.866	1,484.01	4.07
6	2023-2024	90.289	0.247	42.599	0.117	236.314	0.647	56.391	0.154	425.59	1.17	1,040.305	2.850	1,465.90	4.02
6	2024-2025	87.037	0.238	41.801	0.115	225.549	0.618	53.727	0.147	408.11	1.12	1,017.861	2.789	1,425.98	3.91
6	2025-2026	79.393	0.218	39.059	0.107	204.712	0.561	48.678	0.133	371.84	1.02	998.574	2.736	1,370.42	3.75

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

Case	Gas Year	Annual Klamath DSM (MDth)	Daily Klamath DSM (MDth/day)	Annual La Grande DSM (MDth)	Daily La Grande DSM (MDth/day)	Annual Medford DSM (MDth)	Daily Medford DSM (MDth/day)	Annual Roseburg DSM (MDth)	Daily Roseburg DSM (MDth/day)	Annual Oregon DSM (MDth)	Daily Oregon DSM (MDth/day)	Annual WA/ID DSM (MDth)	Daily WA/ID DSM (MDth/day)	Annual Total System DSM (MDth)	Daily Total System DSM (MDth/day)
7	2006-2007	8.969	0.025	4.046	0.011	24.781	0.068	5.933	0.016	43.73	0.12	67.705	0.185	111.43	0.31
7	2007-2008	17.992	0.049	8.116	0.022	49.768	0.136	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	17.799	0.049	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	23.732	0.065	174.91	0.48	270.820	0.742	445.74	1.22
7	2010-2011	44.843	0.123	20.232	0.055	123.903	0.339	29.665	0.081	218.64	0.60	365.009	1.000	583.65	1.60
7	2011-2012	53.977	0.148	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	2012-2013	62.781	0.172	28.325	0.078	173.464	0.475	41.531	0.114	306.10	0.84	487.778	1.336	793.88	2.18
7	2013-2014	71.749	0.197	32.371	0.089	198.245	0.543	47.464	0.130	349.83	0.96	548.138	1.502	897.97	2.46
7	2014-2015	80.718	0.221	36.418	0.100	223.025	0.611	53.397	0.146	393.56	1.08	608.498	1.667	1,002.06	2.75
7	2015-2016	89.962	0.246	40.582	0.111	248.840	0.682	59.513	0.163	438.90	1.20	670.809	1.838	1,109.71	3.04
7	2016-2017	100.872	0.276	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
7	2017-2018	100.259	0.275	45.142	0.124	269.794	0.739	65.103	0.178	480.30	1.32	1,087.087	2.978	1,567.39	4.29
7	2018-2019	99.646	0.273	44.853	0.123	267.597	0.733	64.529	0.177	476.62	1.31	1,082.767	2.966	1,559.39	4.27
7	2019-2020	98.970	0.271	44.530	0.122	265.653	0.728	63.951	0.175	473.10	1.30	1,077.292	2.951	1,550.40	4.25
7	2020-2021	97.684	0.268	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	2021-2022	95.133	0.261	43.460	0.119	252.750	0.692	60.728	0.166	452.07	1.24	1,054.580	2.889	1,506.65	4.13
7	2022-2023	92.581	0.254	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	2023-2024	90.289	0.247	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	2024-2025	87.037	0.238	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	2025-2026	79.393	0.218	39.059	0.107	204.712	0.561	48.678	0.133	371.84	1.02	998.574	2.736	1,370.42	3.75

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

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

Expected Case (Case #2)

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

		Annual					Winter				
Year	Year of Forecast	Klamath Falls	La Grande	Medford	Roseburg	WA/ID	Klamath Falls	La Grande	Medford	Roseburg	WA/ID
2006/2007	1	$6.07	$6.05	$6.05	$6.05	$5.99	$6.90	$6.87	$6.87	$6.87	$6.82
2007/2008	2	$5.74	$5.71	$5.71	$5.71	$5.67	$6.52	$6.50	$6.50	$6.50	$6.45
2008/2009	3	$5.24	$5.21	$5.21	$5.21	$5.17	$5.95	$5.93	$5.93	$5.93	$5.88
2009'2010	4	$5.06	$5.04	$5.04	$5.04	$5.00	$5.76	$5.73	$5.73	$5.73	$5.70
2010/2011	5	$5.06	$5.04	$5.04	$5.04	$5.00	$5.76	$5.73	$5.73	$5.73	$5.70
2011/2012	6	$5.24	$5.21	$5.21	$5.21	$5.17	$5.95	$5.93	$5.93	$5.93	$5.88
2012/2013	7	$5.40	$5.38	$5.38	$5.38	$5.33	$6.14	$6.11	$6.11	$6.11	$6.06
2013/2014	8	$5.57	$5.55	$5.55	$5.55	$5.49	$6.34	$6.30	$6.30	$6.30	$6.25
2014/2015	9	$5.70	$5.67	$5.67	$5.67	$5.63	$6.48	$6.45	$6.45	$6.45	$6.40
2015/2016	10	$6.03	$6.01	$6.01	$6.01	$5.95	$6.86	$6.82	$6.82	$6.82	$6.78
2016/2017	11	$6.49	$6.47	$6.47	$6.47	$6.40	$7.39	$7.35	$7.35	$7.35	$7.29
2017/2018	12	$6.83	$6.80	$6.80	$6.80	$6.74	$7.77	$7.73	$7.73	$7.73	$7.66
2018/2019	13	$7.17	$7.13	$7.13	$7.13	$7.07	$8.16	$8.10	$8.10	$8.10	$8.05
2019/2020	14	$7.51	$7.46	$7.46	$7.46	$7.41	$8.54	$8.49	$8.49	$8.49	$8.43
2020/2021	15	$7.67	$7.64	$7.64	$7.64	$7.57	$8.72	$8.67	$8.68	$8.67	$8.61
2021/2022	16	$7.84	$7.80	$7.80	$7.80	$7.73	$8.92	$8.87	$8.87	$8.87	$8.80
2022/2023	17	$8.01	$7.97	$7.97	$7.97	$7.90	$9.11	$9.06	$9.06	$9.06	$9.00
2023/2024	18	$8.19	$8.15	$8.15	$8.15	$8.08	$9.31	$9.26	$9.26	$9.26	$9.19
2024/2025	19	$8.37	$8.32	$8.32	$8.32	$8.25	$9.51	$9.46	$9.46	$9.46	$9.39
2025/2026	20	$8.37	$8.32	$8.32	$8.32	$8.25	$9.51	$9.46	$9.47	$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**