AVISTA CORPORATION
2007 NATURAL GAS
INTEGRATED RESOURCE PLAN

TABLE OF CONTENTS

	Page Number
Appendix 1.1: TAC Member List……	3
Appendix 2.1: Demand Forecast Detail……	5
Appendix 2.2: Customer Forecast……....	15
Appendix 2.3: Demand Coefficients……..	29
Appendix 2.4: Detailed Demand Data…….	33
Appendix 6.1: General Assumptions……..	59
Appendix 6.2: Existing Resource Comparisons…….	73
Appendix 6.3: Served and Unserved Demand…….	77
Appendix 6.4: Supply-Side Resources……..	81
Appendix 6.5: Future Resource Comparisons…….	85
Appendix 6.6: Load Duration Curves…….	89
Appendix 6.7: Resource Selections……..	93
Appendix 6.8: Demand-Side Management Savings…….	97
Appendix 6.9: Demand-Side Management Selected Measures……..	101
Appendix 6.10: Demand-Side Management Programs –OR ONLY…	107
Appendix 6.11: Oregon Public Utility Commission IRP Standards and Guidelines……	109
Appendix 7.1: Avoided Cost Determination……	119

TAC Member List

Appendix 1.1

2007 IRP TAC Member List

Name	Organization
Bob Jenks	Oregon CUB
Bonnie Tatom	OPUC
Bruce Folsom	Avista
Bryan Lanspery	IPUC
Dan Kirschner	Northwest Gas Association
Dave Allred	Northwest Pipeline
Dave Sloan	Gas Transmission Northwest
Doug Kilpatrick	WUTC
Elizabeth Klumpp	WCTED
Greg Rahn	Avista
Inara Scott	Northwest Natural
Jon Powell	Avista
Kathy Bernarnd	Cascade Natural Gas Company
Kelly Irvine	Avista
Kerry Shroy	Avista
Ken Boni	Avista
Ken Zimmerman	OPUC
Kevin Christie	Avista
Linda Gervais	Avista
Lynn Anderson	IPUC
Lynn Kittilson	OPUC
Nicolas Garcia	WUTC
Paula Pyron	Northwest Industrial Gas Users
Phillip Popoff	Puget Sound Energy
Randy Barcus	Avista
Scott Russell	Gas Transmission Northwest
Steven Johnson	Washington Attorney General's Office
Terrence Browne	Avista
Terri Carlock	IPUC
Terry Morlan	Northwest Power and Conservation Coucil
Yohannes Mariam	WUTC

Natural Gas Demand Forecast Detail

Appendix 2.1

Appendix 2.1 - Natural Gas Demand Forecast Detail

Overview

Avista presented their 2005 Natural Gas Forecast to the Technical Advisory Committee (TAC). 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.

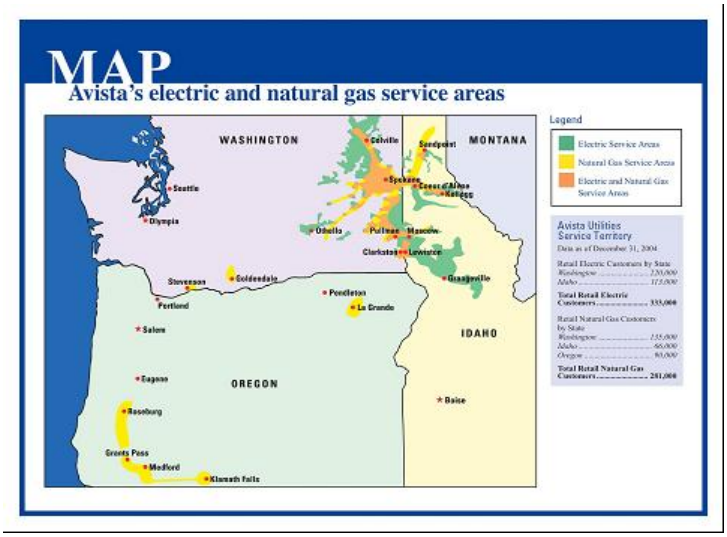
National Economic Outlook

Avista has contracted for national economic forecasts with Global Insight, Inc. for several years. The most recent twenty-five year long term forecast was used as the basis for the 2007 effort. The following narrative has Avista remarks and Global Insight forecasts (used with permission) which are consistent with the presentation at the TAC in May 2007, with a focus on the near term national outlook.

The U.S. Gross Domestic Product is expected to rebound to levels in the 2.5 to 3.0 percent range after a slowdown in 2007. Longer term the rate settles in at 2.5 percent.

Regional Economic Outlook

Avista serves natural gas in eastern Washington, northern Idaho, and in portions of five counties in Oregon. The principal county in Washington is Spokane, while in Idaho there are two counties; Kootenai and Bonner are barometers of service area growth. Kootenai County includes Coeur d'Alene, Post Falls, Hayden and a host of smaller municipalities and Bonner County is anchored by Sandpoint. The primary cities in Spokane County are the City of Spokane, City of Spokane Valley and 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 map below shows the breadth of the service area.



Global Insight, Inc. has also been providing county-level forecasts to Avista for several years. These forecasts are consistent with and driven by their national forecast.

The economic concepts provided are forecast forward for 30 years. Below we report forecast data ending in the year 2028, the twenty-year horizon.

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 with strong customer growth, while longer term, underlying employment and population growth will drive customer growth.

The following table indicates a listing of 21 counties served by Avista Natural Gas. We purchased economic forecasts for the 15 principal counties.

Table of Counties Served (All or Portions)

Washington	Idaho	Oregon
Adams*	Benewah	Douglas
Asotin	Bonner	Jackson
Franklin*	Boundary	Josephine
Grant*	Latah	Klamath
Klickitat*	Nez Perce	Union
Lincoln*	Shosone	
Skamania*		
Spokane		
Stevens		
Whitman		

*Did not purchase economic data, few customers served

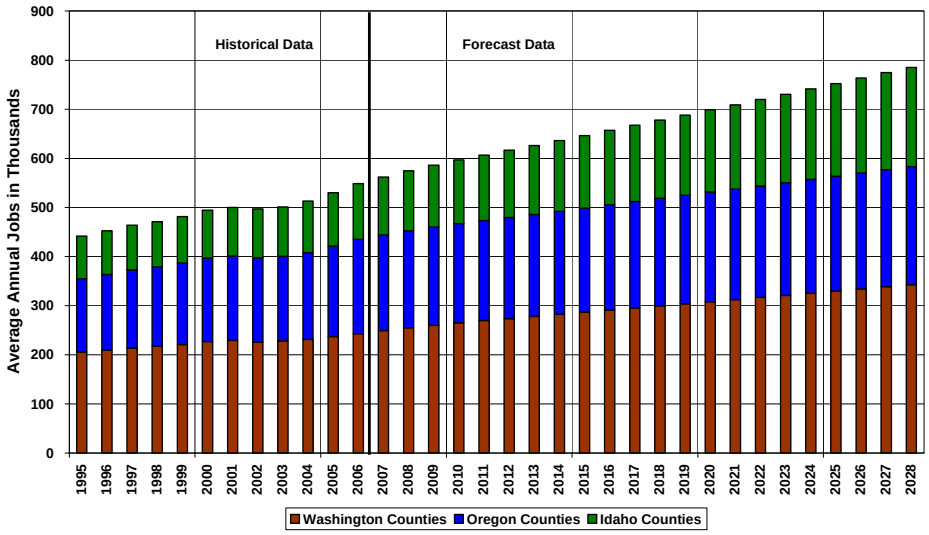
The charts that follow are the actual employment, population, population age 65 and over, number of households and personal income forecasts used to produce the natural gas forecasts by state, by customer class (residential, commercial and industrial) and by rate schedule (firm – small, medium and large-sized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

Although the forecasts are prepared in detail by county, the charts aggregate the data by State.

The first chart is Non-Farm Employment. During the last decade, fairly consistent growth in jobs was observed except during the job recession and economy restructuring in the 2001-2002 period. The resumption of job growth in 2003 has accelerated through early 2007, and although expected to moderate it's rate of growth, is expected to grow modestly through the forecast period.

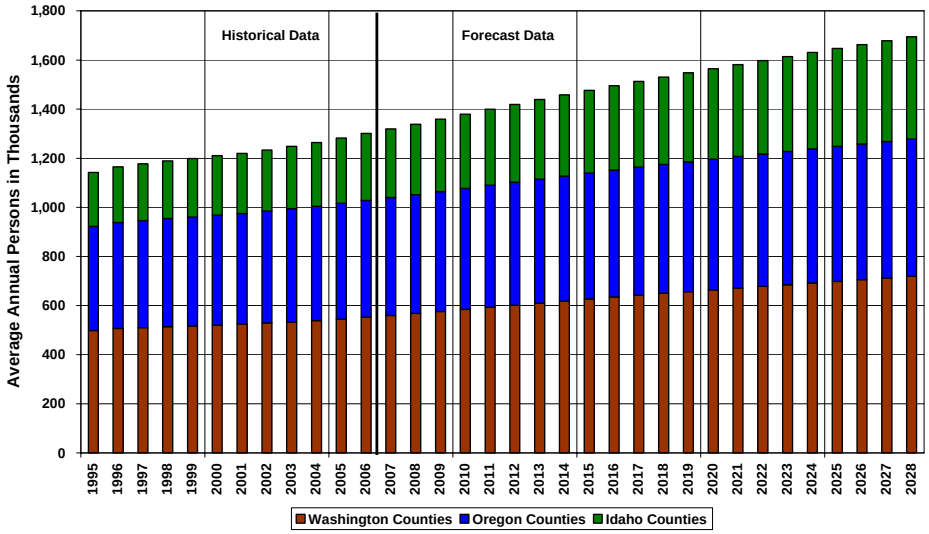
The ten year average compounded growth rate in jobs for these 15 counties was 1.9 percent from 1997-2007, and is forecast to be 1.6 percent for the period 2008-2028.

Service Area Non-Farm Employment
Fifteen Principal Counties Served



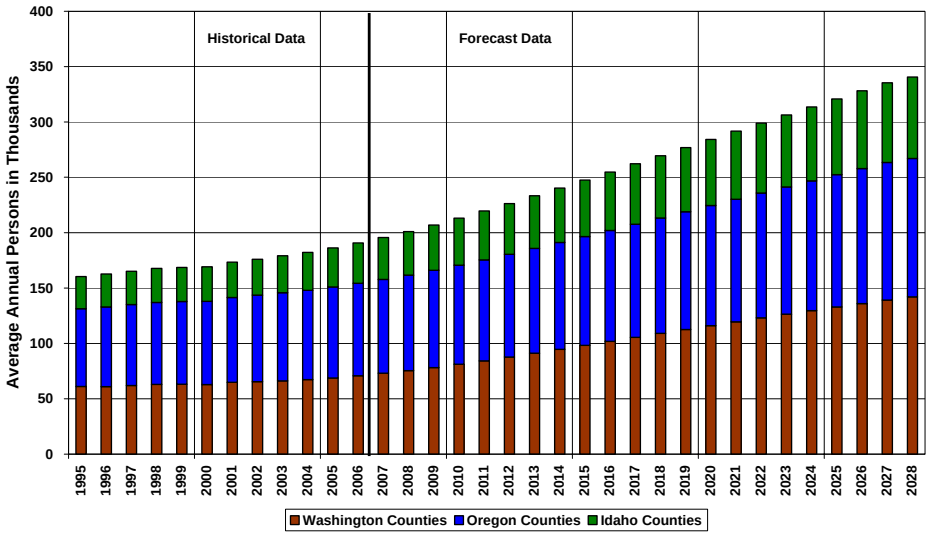
Next is Oregon resident population. Resident population growth was 1.1 percent compounded from 1997-2007, and is expected to rise to 1.2 percent from 2008-2028. Migration into these counties of retirement-age persons is the primary influence on growth.

Service Area Population
Fifteen Principal Counties Served



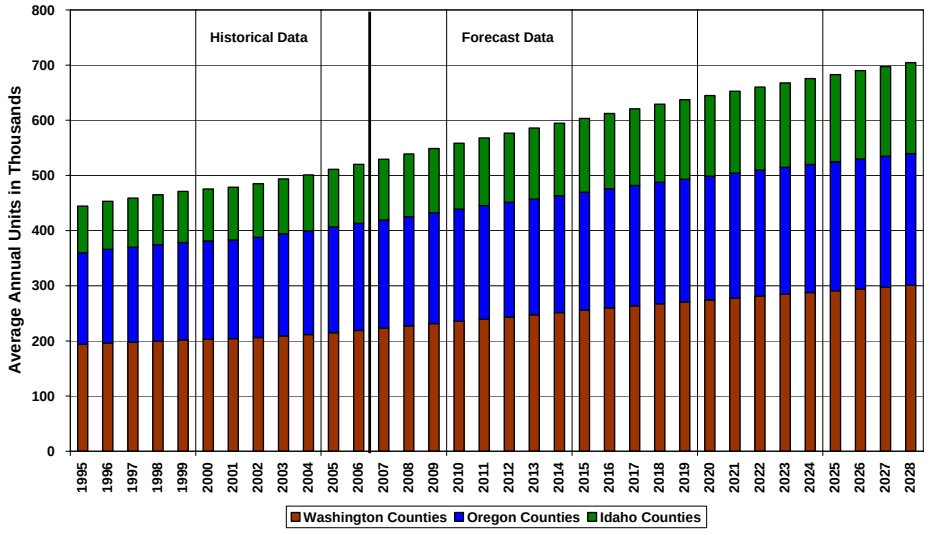
The next chart is persons 65 years and over. Between 1997 and 2007, the compounded growth rate was 1.7 percent. From 2008 to 2028, it accelerates to 2.7 percent. The 2007 estimate of the percentage of persons 65 and over in Avista's service area is 15 percent. By 2028 this estimate grows to 20 percent.

Service Area 65 and Over Population
Fifteen Principal Counties Served

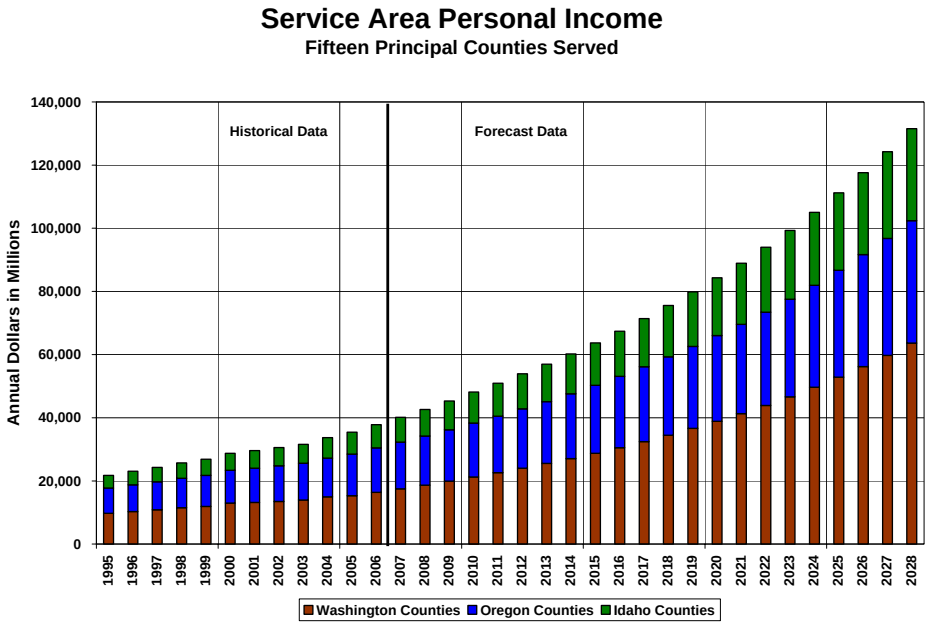


The next economic variable used in the preparation of Avista's forecast is number of resident households in the service area. The household growth rate was 1.4 percent from 1997-2007, and is forecast at 1.3 percent for the 2008 to 2028 period.

Service Area Households
Fifteen Principal Counties Served



The final economic variable used is the estimate of personal income. Besides wage and salary income, personal income includes rental income, transfer payments (like social security from all of the age 65 and over population, plus dividends and interest payments. Between 1997 and 2007, personal income grew at a compounded average rate of 5.2 percent. The forecast period has this growth rate increasing modestly to 5.8 percent, consistent with the proportion of persons 65 years and older and the expectation these individuals will be receiving supplemental payments from retirement sources.



Price Elasticity

Avista participated in a National study of price elasticity conducted for the American Gas Association by a consulting group. As a benefit of our participation, the consultants provided separate price elasticity estimates for each of the three states. The study was discussed at the May 2, 2007 Technical Advisory Committee meeting in Portland, Oregon.

Price Elasticity

American Gas Association, March 2007 Study
Frederick Joutz and Robert P. Trost

Avista Specific Estimates

	Long Run	Short Run
Washington	-0.14	-0.12
Oregon	-0.13	-0.08
Idaho	-0.10	-0.05

Heating Degree Days

Heating degree day data is obtained from the National Weather Service. Avista uses the most recent 30-year period, which goes from 1971-2000. For Oregon, Avista uses four weather stations as the weather basis, corresponding to the areas within which natural gas services are provided, all of which are official National Weather Service stations. Heating degree day weather patterns between these areas are uncorrelated.

At the May 2, 2007 Technical Advisory Committee meeting, Avista presented some data and information regarding trends in heating degree days for its service area. Although not adopting a "Global Warming" baseline for forecasting, our willingness to discuss the subject was well received. It was decided that for

this IRP no action on adjusting forecasts for the warmer trends observed in recent years is necessary. However, as this issue continues to garner discussion further analysis will be warranted.

Base Case Forecasts of Customers Served

Base case customer forecasts for residential customers are consistent with our economic forecasts. The relationship has been changing over the last decade, and the forecasts take into account the most recent trends. As shown on the next figure, the number of residential customers per household grew rapidly between 1997 and 2001. About half of this growth was due to fuel switching of existing homes from other heating sources to natural gas.

After 2001, the number of customers switching to natural gas decreased, as the number of homes available to switch declined combined with dramatically higher natural gas retail prices to reduce the market demand.

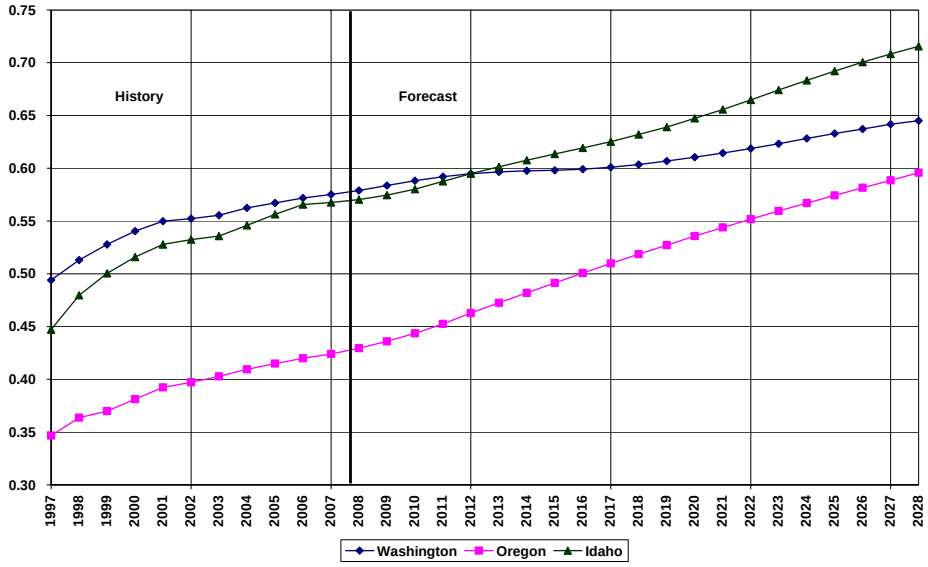
To produce the customer forecast, we look at recent trends in housing construction and the likelihood those homes will be served with natural gas. For example, in Washington, the number of single family homes being constructed has declined, with apartment dwellings taking a larger market share. Multi-family housing has traditionally been served with electricity only, limiting the number of available dwellings for natural gas service.

However, in the areas outside of the urban core of Spokane, including the rest of Washington, much of Idaho and Oregon, housing construction activity has maintained very high levels of single family homes, whether detached-style homes on individual lots or attached-style homes, like duplexes, townhomes, or condominiums. This market is traditionally served with natural gas water and space heat, and many of these homes now are being built with natural gas clothes dryers, gas ranges and ovens and natural gas fire places.

Because growth management laws are in place in all of Avista's natural gas service areas, we assume these construction trends in the urban growth areas will be served with natural gas, and do not anticipate any switching to electricity. We have an effort under way to encourage multi-family builders, who typically are building apartments for rental purposes to include natural gas appliances, but this forecast does not assume this effort will lead to a change in construction practices. We will continue to monitor activity in the multi-family housing segment.

The forecast assumes that the trends of the last five years continue into the future, adjusted for the sharp building cycle presently under way and based on the household forecasts provided by Global Insight. The chart shows the number of residential customers per household. The reason this ratio is increasing in the forecast period is because the ratio of homes being added is higher than the current ratio. This is largely driven by the assumption of nearly 100 percent of new homes having at least one natural gas service. Also, outside of the Medford and Spokane metropolitan areas, the multi-family construction market is very small. The only exception would be in Pullman and Moscow where growth in university enrollments is leading to apartment construction activity in those special areas. To a lesser extent, La Grande, Klamath Falls, and Ashland are seeing student growth-driven apartment construction, but to a small extent.

Residential Customers per Household Trends by State

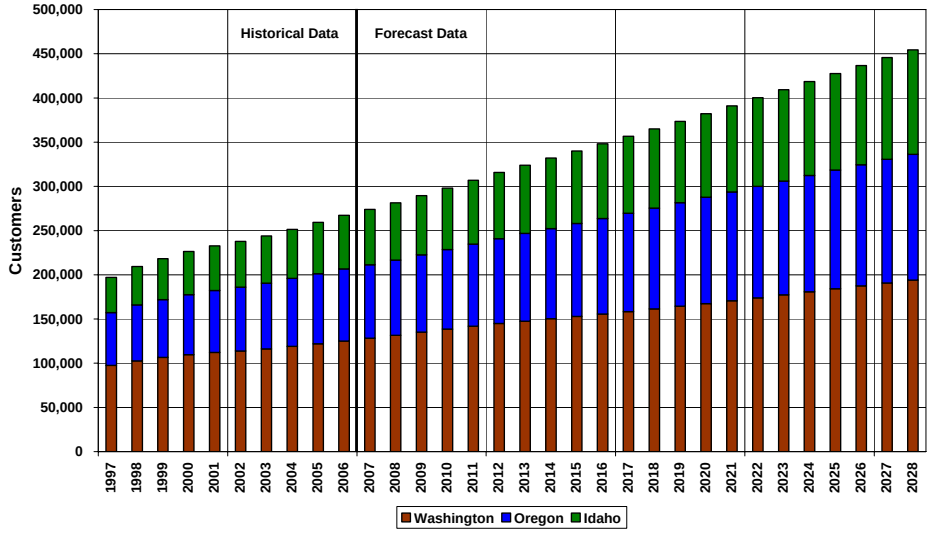


The residential customer forecast is the product of the customers-per-household forecast and the household forecast from Global Insight.

Note: 2007 data includes 4 months actual, 8 months estimated

Residential Customers Served

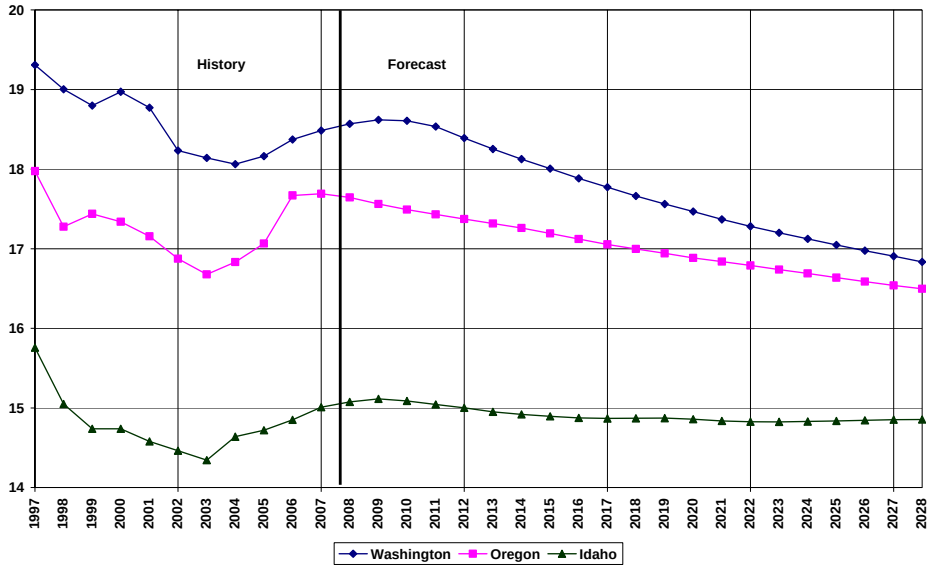
Average During the Year--All Residential Customers are Core Load



Core commercial customers served are based on job forecasts for each county, as well as the number of residential customers. The figure below shows ratio of non-farm workers per commercial customer. The previous ten years show declines in numbers of workers early in the period, followed by a buildup until recently. This build up is due to an increase in the number of big-box retail stores, which have moved from the very large metro areas into the smaller metro areas served by Avista. We believe that build out is largely complete. We do not anticipate new large mall-type complexes will be built in to any great extent. Therefore, in a few more years we expect the number of workers will again begin to decline as smaller shops and strip-mall developments fill into the neighborhood developments. We have taken into account

the known shopping areas that have been either permitted or have those proposed that have a high probability of being built in the near term forecast. As shown in the chart, although declines are forecast, they are very modest levels and reflect the particular characteristics of the existing mix of commercial developments in each state.

Non-Farm Employment per Commercial Customer Trends by State

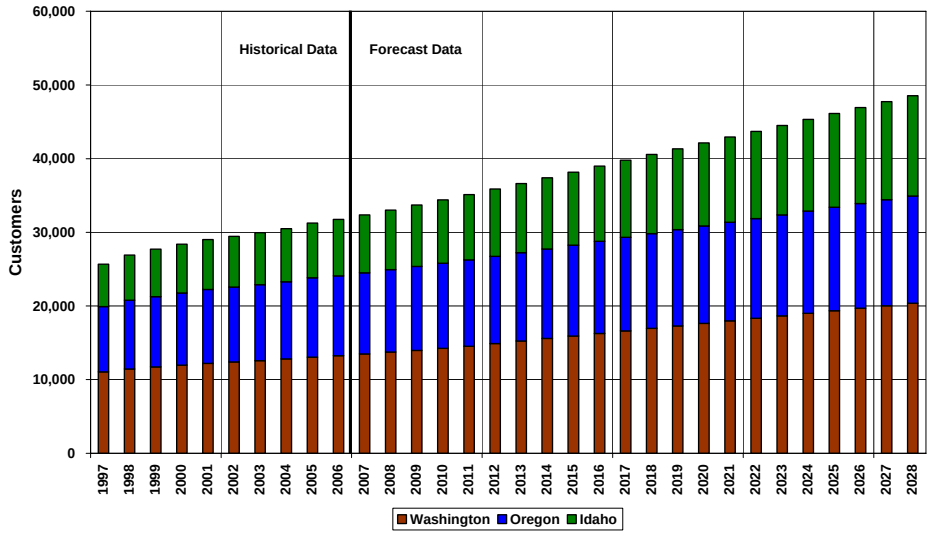


The commercial customer forecast is based on job forecasts multiplied times the forecasted ratio of workers per customer as described above.

Note: 2007 data includes 4 months actual, 8 months estimated

Core Commercial Customers Served

Average During the Year

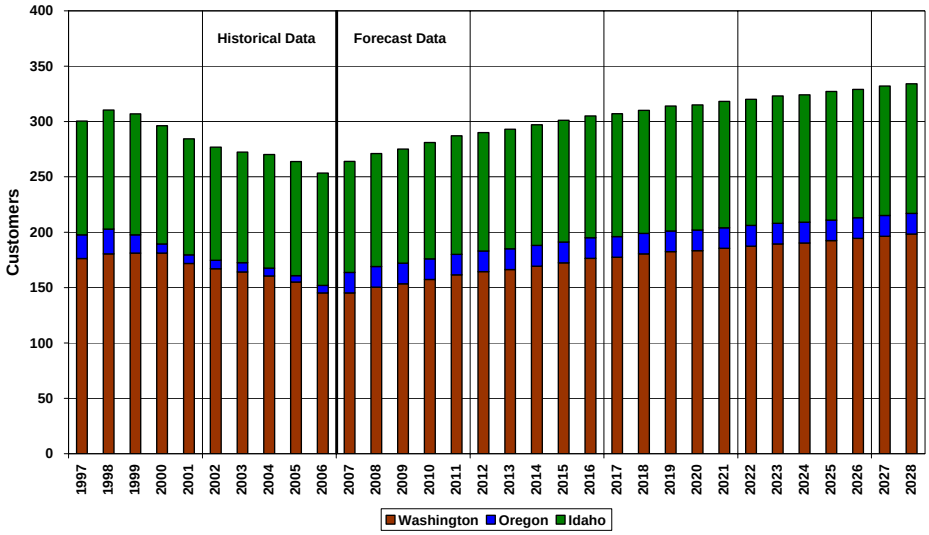


Core industrial customers served are based on manufacturing job forecasts for each county. The number of manufacturing workers is expected to be growing slowly over the forecast period, leading to little change in the number of core firm industrial customers.

Note: 2007 data includes 4 months actual, 8 months estimated

Core Industrial Customers Served

Average During the Year



Customer Forecast

Appendix 2.2

Appendix 2.2 - Customer Forecast - Number by Region
Expected Case

	WA/ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA/ID Res	WA/ID Com	WA/ID Firm Ind	WA/ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-07	193,203	21,592	247	215,042	50,373	6,448	9	56,830	13,163	2,145	2	15,310	13,882	1,606	5	15,493	6,449	882	5	7,336
Dec-07	194,376	21,688	250	216,314	50,851	6,481	9	57,341	13,285	2,153	2	15,440	14,056	1,626	4	15,686	6,514	882	2	7,398
Jan-08	194,726	21,642	248	216,616	51,074	6,498	9	57,581	13,327	2,159	2	15,488	14,110	1,643	4	15,757	6,554	883	1	7,438
Feb-08	194,827	21,768	252	216,847	51,144	6,505	9	57,658	13,367	2,160	2	15,529	14,146	1,654	5	15,805	6,565	883	1	7,449
Mar-08	195,157	21,737	250	217,144	51,241	6,520	9	57,770	13,419	2,163	2	15,584	14,174	1,655	5	15,834	6,555	884	1	7,440
Apr-08	195,051	21,713	250	217,014	51,252	6,487	9	57,748	13,340	2,149	2	15,491	14,134	1,648	5	15,787	6,547	880	1	7,428
May-08	195,373	21,719	250	217,342	51,220	6,491	9	57,720	13,303	2,167	2	15,472	14,039	1,635	5	15,679	6,524	880	2	7,406
Jun-08	195,700	21,751	253	217,704	51,047	6,481	9	57,537	13,219	2,163	2	15,384	13,926	1,631	5	15,562	6,486	881	2	7,369
Jul-08	195,531	21,716	256	217,503	50,866	6,475	9	57,350	13,220	2,158	2	15,380	13,890	1,637	5	15,532	6,363	883	2	7,248
Aug-08	195,802	21,822	253	217,877	50,731	6,479	9	57,219	13,161	2,152	2	15,315	13,785	1,631	5	15,421	6,338	885	3	7,226
Sep-08	196,537	21,910	255	218,702	50,891	6,503	9	57,403	13,127	2,149	2	15,278	13,799	1,640	5	15,444	6,324	888	7	7,219
Oct-08	197,952	21,935	252	220,139	51,263	6,490	9	57,762	13,270	2,152	2	15,424	14,002	1,621	5	15,628	6,450	887	7	7,344
Nov-08	198,723	22,073	254	221,050	51,773	6,573	9	58,355	13,513	2,170	2	15,685	14,232	1,636	5	15,873	6,549	887	5	7,441
Dec-08	199,896	22,169	256	222,321	52,301	6,606	9	58,916	13,635	2,173	2	15,810	14,406	1,656	4	16,066	6,614	887	2	7,503
Jan-09	200,447	22,129	252	222,828	52,374	6,609	9	58,992	13,727	2,203	2	15,932	14,460	1,671	4	16,135	6,654	888	1	7,543
Feb-09	200,548	22,255	256	223,059	52,494	6,616	9	59,119	13,767	2,204	2	15,973	14,496	1,682	5	16,183	6,665	888	1	7,554
Mar-09	200,878	22,224	254	223,356	52,641	6,631	9	59,281	13,819	2,207	2	16,028	14,524	1,683	5	16,212	6,655	889	1	7,545
Apr-09	200,772	22,200	254	223,226	52,702	6,598	9	59,309	13,740	2,193	2	15,935	14,484	1,676	5	16,165	6,647	885	1	7,533
May-09	201,094	22,206	254	223,554	52,720	6,602	9	59,331	13,703	2,211	2	15,916	14,389	1,663	5	16,057	6,624	885	2	7,511
Jun-09	201,421	22,238	257	223,916	52,547	6,592	9	59,148	13,619	2,207	2	15,828	14,276	1,659	5	15,940	6,586	886	2	7,474
Jul-09	201,452	22,203	260	223,915	52,366	6,586	9	58,961	13,670	2,202	2	15,874	14,290	1,665	5	15,960	6,463	888	2	7,353
Aug-09	201,723	22,309	257	224,289	52,231	6,590	9	58,830	13,611	2,196	2	15,809	14,185	1,659	5	15,849	6,438	890	3	7,331
Sep-09	202,458	22,397	259	225,114	52,391	6,614	9	59,014	13,577	2,193	2	15,772	14,199	1,668	5	15,872	6,424	893	7	7,324
Oct-09	203,873	22,422	256	226,551	52,813	6,601	9	59,423	13,720	2,196	2	15,918	14,402	1,649	5	16,056	6,550	892	7	7,449
Nov-09	204,644	22,560	258	227,462	53,373	6,684	9	60,066	13,963	2,214	2	16,179	14,632	1,664	5	16,301	6,649	892	5	7,546
Dec-09	205,817	22,656	260	228,733	53,951	6,717	9	60,677	14,085	2,217	2	16,304	14,806	1,684	4	16,494	6,714	892	2	7,608
Jan-10	206,317	22,665	258	229,240	54,024	6,706	9	60,739	14,227	2,245	2	16,474	14,860	1,697	4	16,561	6,754	892	1	7,647
Feb-10	206,418	22,791	262	229,471	54,144	6,713	9	60,866	14,267	2,246	2	16,515	14,896	1,708	5	16,609	6,765	892	1	7,658
Mar-10	206,748	22,760	260	229,768	54,291	6,728	9	61,028	14,319	2,249	2	16,570	14,924	1,709	5	16,638	6,755	893	1	7,649
Apr-10	206,642	22,736	260	229,638	54,252	6,695	9	60,956	14,240	2,235	2	16,477	14,884	1,702	5	16,591	6,747	889	1	7,637
May-10	206,964	22,742	260	229,966	54,270	6,699	9	60,978	14,203	2,253	2	16,458	14,789	1,689	5	16,483	6,724	889	2	7,615
Jun-10	207,291	22,774	263	230,328	54,097	6,689	9	60,795	14,119	2,249	2	16,370	14,676	1,685	5	16,366	6,686	890	2	7,578
Jul-10	207,422	22,739	266	230,427	53,916	6,683	9	60,608	14,170	2,244	2	16,416	14,740	1,691	5	16,436	6,563	892	2	7,457
Aug-10	207,693	22,845	263	230,801	53,781	6,687	9	60,477	14,111	2,238	2	16,351	14,635	1,685	5	16,325	6,538	894	3	7,435
Sep-10	208,428	22,933	265	231,626	53,941	6,711	9	60,661	14,077	2,235	2	16,314	14,649	1,694	5	16,348	6,524	897	7	7,428
Oct-10	209,843	22,958	262	233,063	54,413	6,698	9	61,120	14,220	2,238	2	16,460	14,852	1,675	5	16,532	6,650	896	7	7,553
Nov-10	210,614	23,096	264	233,974	55,023	6,781	9	61,813	14,463	2,256	2	16,721	15,082	1,690	5	16,777	6,749	896	5	7,650
Dec-10	211,787	23,192	266	235,245	55,651	6,814	9	62,474	14,585	2,259	2	16,846	15,256	1,710	4	16,970	6,814	896	2	7,712
Jan-11	212,288	23,226	264	235,778	55,724	6,792	9	62,525	14,827	2,279	2	17,108	15,360	1,717	4	17,081	6,854	896	1	7,751
Feb-11	212,389	23,352	268	236,009	55,794	6,799	9	62,602	14,867	2,280	2	17,149	15,396	1,728	5	17,129	6,865	896	1	7,762
Mar-11	212,719	23,321	266	236,306	55,941	6,814	9	62,764	14,919	2,283	2	17,204	15,424	1,729	5	17,158	6,855	897	1	7,753
Apr-11	212,613	23,297	266	236,176	55,902	6,781	9	62,692	14,840	2,269	2	17,111	15,384	1,722	5	17,111	6,847	893	1	7,741
May-11	212,935	23,303	266	236,504	55,920	6,785	9	62,714	14,803	2,287	2	17,092	15,289	1,709	5	17,003	6,824	893	2	7,719
Jun-11	213,262	23,335	269	236,866	55,747	6,775	9	62,531	14,719	2,283	2	17,004	15,176	1,705	5	16,886	6,786	894	2	7,682
Jul-11	213,293	23,300	272	236,865	55,566	6,769	9	62,344	14,770	2,278	2	17,050	15,240	1,711	5	16,956	6,663	896	2	7,561
Aug-11	213,564	23,406	269	237,239	55,431	6,773	9	62,213	14,711	2,272	2	16,985	15,135	1,705	5	16,845	6,638	898	3	7,539
Sep-11	214,299	23,494	271	238,064	55,591	6,797	9	62,397	14,677	2,269	2	16,948	15,149	1,714	5	16,868	6,624	901	7	7,532
Oct-11	215,714	23,519	268	239,501	56,113	6,784	9	62,906	14,820	2,272	2	17,094	15,352	1,695	5	17,052	6,750	900	7	7,657
Nov-11	216,485	23,657	270	240,412	56,773	6,867	9	63,649	15,063	2,290	2	17,355	15,582	1,710	5	17,297	6,849	900	5	7,754
Dec-11	217,658	23,753	272	241,683	57,451	6,900	9	64,360	15,185	2,293	2	17,480	15,756	1,730	4	17,490	6,914	900	2	7,816
Jan-12	217,865	23,832	267	241,964	57,640	6,878	9	64,527	15,531	2,316	2	17,849	15,810	1,738	4	17,553	6,960	900	1	7,861
Feb-12	217,968	23,961	271	242,201	57,712	6,885	9	64,606	15,573	2,317	2	17,892	15,847	1,750	5	17,602	6,971	900	1	7,872
Mar-12	218,307	23,930	269	242,506	57,864	6,900	9	64,773	15,627	2,320	2	17,950	15,876	1,751	5	17,632	6,961	901	1	7,863
Apr-12	218,198	23,905	269	242,372	57,824	6,867	9	64,700	15,545	2,306	2	17,853	15,835	1,743	5	17,583	6,953	897	1	7,851
May-12	218,529	23,911	269	242,709	57,842	6,871	9	64,722	15,506	2,325	2	17,832	15,737	1,730	5	17,472	6,930	897	2	7,829
Jun-12	218,864	23,944	272	243,080	57,663	6,861	9	64,533	15,418	2,320	2	17,740	15,621	1,726	5	17,352	6,891	898	2	7,791
Jul-12	218,896	23,908	275	243,079	57,476	6,855	9	64,340	15,471	2,315	2	17,789	15,687	1,732	5	17,424	6,766	900	2	7,668
Aug-12	219,174	24,017	272	243,463	57,337	6,859	9	64,204	15,409	2,309	2	17,721	15,579	1,726	5	17,310	6,741	902	3	7,646
Sep-12	219,929	24,107	274	244,310	57,502	6,883	9	64,394	15,374	2,306	2	17,682	15,593	1,735	5	17,333	6,726	905	7	7,639
Oct-12	221,381	24,133	271	245,784	58,042	6,870	9	64,921	15,524	2,309	2	17,835	15,802	1,716	5	17,523	6,854	904	7	7,766
Nov-12	222,172	24,274	273	246,719	58,725	6,954	9	65,688	15,778	2,328	2	18,108	16,039	1,731	5	17,775	6,955	904	5	7,864
Dec-12	223,376	24,373	275	248,024	59,426	6,987	9	66,422	15,906	2,331	2	18,239	16,218	1,752	4	17,973	7,021	904	2	7,927
Jan-13	223,135	24,438	270	247,843	59,431	6,960	9	66,400	16,202	2,352	2	18,556	16,223	1,759	4	17,986	7,081	904	1	7,986
Feb-13	223,241	24,571	274	248,086	59,506	6,967	9	66,481	16,246	2,354	2	18,601	16,261	1,770	5	18,036	7,093	904	1	7,997
Mar-13	223,588	24,538	272	248,398	59,662	6,982	9	66,654	16,302	2,357	2	18,661	16,290	1,771	5	18,067	7,082	905	1	7,988
Apr-13	223,476	24,513	272	248,261	59,621	6,948	9	66,578	16,216	2,342	2	18,560	16,248	1,764	5	18,017	7,074	901	1	7,976
May-13	223,815	24,519	272	248,606	59,640	6,953	9	66,601	16,176	2,361	2	18,538	16,148	1,751	5	17,903	7,050	901	2	7,953
Jun-13	224,159	24,553	275	248,987	59,455	6,942	9	66,407	16,084	2,357	2	18,442	16,029	1,746	5	17,780	7,011	902	2	7,915
Jul-13	224,191	24,516	278	248,985	59,262	6,936	9	66,208	16,140	2,351	2	18,493	16,096	1,753	5	17,854	6,884	904	2	7,790
Aug-13	224,476	24,628	275	249,379	59,118	6,940	9	66,068	16,075	2,345	2	18,422	15,985	1,746	5	17,737	6,858	906	3	7,767
Sep-13	225,249	24,720	277	250,246	59,289	6,965	9	66,263	16,038	2,342	2	18,382	16,000	1,756	5	17,761	6,844	909	7	7,759
Oct-13	226,736	24,747	274	251,756	59,846	6,952	9	66,806	16,194	2,345	2	18,541	16,214	1,736	5	17,956	6,974	908	7	7,888

Appendix 2.2 - Customer Forecast - Number by Region
Expected Case

	WA/ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA/ID Res	WA/ID Com	WA/ID Firm Ind	WA/ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-13	227,546	24,892	276	252,714	60,550	7,037	9	67,595	16,460	2,364	2	18,826	16,457	1,752	5	18,214	7,076	908	5	7,989
Dec-13	228,779	24,993	278	254,050	61,273	7,070	9	68,352	16,593	2,367	2	18,962	16,641	1,772	4	18,417	7,143	908	2	8,053
Jan-14	228,206	25,044	274	253,524	61,172	7,048	9	68,229	16,851	2,391	2	19,244	16,636	1,781	4	18,421	7,187	908	1	8,096
Feb-14	228,314	25,180	278	253,772	61,249	7,055	9	68,314	16,896	2,392	2	19,291	16,675	1,793	5	18,472	7,199	908	1	8,108
Mar-14	228,669	25,147	276	254,091	61,411	7,071	9	68,490	16,955	2,396	2	19,353	16,705	1,794	5	18,504	7,188	909	1	8,098
Apr-14	228,555	25,121	276	253,952	61,368	7,037	9	68,413	16,866	2,381	2	19,249	16,662	1,786	5	18,453	7,180	905	1	8,086
May-14	228,901	25,127	276	254,304	61,388	7,041	9	68,437	16,824	2,400	2	19,225	16,559	1,773	5	18,337	7,156	905	2	8,063
Jun-14	229,253	25,162	279	254,693	61,198	7,030	9	68,237	16,728	2,396	2	19,126	16,436	1,769	5	18,210	7,116	906	2	8,024
Jul-14	229,286	25,124	282	254,692	60,999	7,024	9	68,032	16,786	2,390	2	19,178	16,506	1,775	5	18,286	6,987	908	2	7,897
Aug-14	229,577	25,238	279	255,095	60,851	7,028	9	67,888	16,719	2,384	2	19,105	16,392	1,769	5	18,166	6,961	910	3	7,874
Sep-14	230,367	25,333	281	255,982	61,026	7,053	9	68,089	16,680	2,381	2	19,063	16,407	1,778	5	18,190	6,946	913	7	7,866
Oct-14	231,888	25,360	278	257,527	61,599	7,040	9	68,648	16,843	2,384	2	19,229	16,627	1,758	5	18,390	7,078	912	7	7,997
Nov-14	232,717	25,509	280	258,506	62,324	7,126	9	69,459	17,119	2,403	2	19,524	16,876	1,774	5	18,655	7,182	912	5	8,099
Dec-14	233,978	25,613	282	259,873	63,068	7,160	9	70,237	17,258	2,406	2	19,666	17,064	1,795	4	18,863	7,250	912	2	8,164
Jan-15	233,178	25,650	278	259,106	62,951	7,147	9	70,107	17,533	2,438	2	19,972	17,048	1,808	4	18,860	7,323	913	1	8,237
Feb-15	233,289	25,790	282	259,360	63,030	7,155	9	70,194	17,580	2,439	2	20,021	17,088	1,820	5	18,913	7,335	913	1	8,249
Mar-15	233,651	25,755	280	259,687	63,196	7,170	9	70,376	17,642	2,442	2	20,086	17,119	1,821	5	18,945	7,325	914	1	8,239
Apr-15	233,535	25,729	280	259,544	63,152	7,136	9	70,297	17,548	2,427	2	19,977	17,075	1,813	5	18,893	7,316	910	1	8,227
May-15	233,889	25,735	280	259,904	63,173	7,140	9	70,322	17,504	2,446	2	19,953	16,969	1,800	5	18,774	7,291	910	2	8,203
Jun-15	234,248	25,771	283	260,302	62,977	7,129	9	70,116	17,405	2,442	2	19,849	16,844	1,795	5	18,644	7,251	911	2	8,163
Jul-15	234,282	25,732	286	260,300	62,773	7,123	9	69,905	17,465	2,437	2	19,904	16,915	1,802	5	18,722	7,119	913	2	8,034
Aug-15	234,580	25,849	283	260,712	62,620	7,127	9	69,756	17,396	2,430	2	19,828	16,798	1,795	5	18,599	7,093	915	3	8,010
Sep-15	235,387	25,946	285	261,618	62,801	7,153	9	69,963	17,355	2,427	2	19,784	16,814	1,805	5	18,624	7,078	918	7	8,002
Oct-15	236,941	25,974	282	263,197	63,391	7,139	9	70,539	17,525	2,430	2	19,957	17,039	1,785	5	18,829	7,212	917	7	8,136
Nov-15	237,788	26,126	284	264,198	64,136	7,226	9	71,371	17,812	2,449	2	20,263	17,295	1,801	5	19,100	7,318	917	5	8,240
Dec-15	239,076	26,232	286	265,595	64,902	7,261	9	72,172	17,956	2,453	2	20,411	17,488	1,822	4	19,314	7,388	917	2	8,306
Jan-16	238,249	26,257	282	264,787	64,780	7,257	9	72,046	18,237	2,488	2	20,726	17,461	1,839	4	19,304	7,460	918	1	8,379
Feb-16	238,362	26,399	286	265,047	64,861	7,265	9	72,135	18,286	2,489	2	20,777	17,502	1,851	5	19,358	7,472	918	1	8,391
Mar-16	238,732	26,364	284	265,380	65,032	7,281	9	72,322	18,350	2,492	2	20,844	17,534	1,852	5	19,391	7,461	919	1	8,381
Apr-16	238,613	26,337	284	265,234	64,987	7,246	9	72,241	18,253	2,477	2	20,731	17,488	1,845	5	19,338	7,452	915	1	8,368
May-16	238,975	26,344	284	265,602	65,008	7,250	9	72,267	18,207	2,496	2	20,706	17,380	1,831	5	19,216	7,427	915	2	8,344
Jun-16	239,342	26,380	287	266,008	64,807	7,239	9	72,055	18,104	2,492	2	20,598	17,252	1,826	5	19,083	7,386	916	2	8,304
Jul-16	239,377	26,340	290	266,007	64,596	7,233	9	71,838	18,167	2,487	2	20,655	17,324	1,833	5	19,162	7,252	918	2	8,172
Aug-16	239,681	26,460	287	266,428	64,439	7,237	9	71,685	18,094	2,480	2	20,576	17,205	1,826	5	19,036	7,225	920	3	8,148
Sep-16	240,506	26,559	289	267,354	64,625	7,263	9	71,897	18,052	2,477	2	20,531	17,221	1,836	5	19,062	7,209	923	7	8,140
Oct-16	242,094	26,588	286	268,967	65,232	7,249	9	72,490	18,228	2,480	2	20,710	17,452	1,816	5	19,272	7,347	922	7	8,276
Nov-16	242,959	26,744	288	269,991	65,999	7,338	9	73,346	18,527	2,500	2	21,029	17,713	1,832	5	19,550	7,454	922	5	8,381
Dec-16	244,275	26,852	290	271,418	66,787	7,373	9	74,169	18,677	2,503	2	21,182	17,911	1,853	4	19,768	7,525	922	2	8,449
Jan-17	243,415	26,862	284	270,560	66,596	7,365	9	73,970	18,952	2,535	2	21,488	17,886	1,868	4	19,758	7,581	923	1	8,505
Feb-17	243,530	27,007	288	270,826	66,680	7,372	9	74,061	19,003	2,536	2	21,541	17,928	1,880	5	19,813	7,593	923	1	8,517
Mar-17	243,909	26,972	286	271,166	66,855	7,389	9	74,253	19,069	2,539	2	21,610	17,961	1,881	5	19,847	7,582	924	1	8,507
Apr-17	243,787	26,944	286	271,017	66,809	7,353	9	74,170	18,968	2,524	2	21,494	17,914	1,874	5	19,793	7,573	920	1	8,494
May-17	244,156	26,951	286	271,393	66,830	7,357	9	74,196	18,921	2,544	2	21,467	17,803	1,860	5	19,668	7,548	920	2	8,470
Jun-17	244,531	26,988	289	271,808	66,623	7,346	9	73,979	18,814	2,539	2	21,355	17,672	1,855	5	19,532	7,506	921	2	8,429
Jul-17	244,567	26,947	292	271,806	66,407	7,340	9	73,756	18,879	2,534	2	21,414	17,746	1,862	5	19,613	7,370	923	2	8,295
Aug-17	244,878	27,070	289	272,236	66,246	7,344	9	73,599	18,803	2,527	2	21,332	17,624	1,855	5	19,484	7,342	925	3	8,270
Sep-17	245,720	27,172	291	273,183	66,437	7,370	9	73,816	18,760	2,524	2	21,286	17,640	1,865	5	19,510	7,326	928	7	8,262
Oct-17	247,343	27,201	288	274,831	67,061	7,356	9	74,426	18,943	2,527	2	21,472	17,877	1,844	5	19,726	7,466	927	7	8,400
Nov-17	248,227	27,360	290	275,877	67,850	7,446	9	75,305	19,253	2,547	2	21,802	18,145	1,861	5	20,010	7,575	927	5	8,507
Dec-17	249,572	27,471	292	277,335	68,660	7,482	9	76,151	19,409	2,550	2	21,962	18,347	1,882	4	20,234	7,647	927	2	8,576
Jan-18	248,778	27,463	287	276,527	68,337	7,465	9	75,811	19,644	2,577	2	22,223	18,299	1,894	4	20,197	7,702	927	1	8,630
Feb-18	248,896	27,612	291	276,799	68,423	7,472	9	75,905	19,697	2,578	2	22,277	18,342	1,906	5	20,253	7,714	927	1	8,643
Mar-18	249,283	27,575	289	277,147	68,604	7,489	9	76,101	19,766	2,581	2	22,349	18,375	1,907	5	20,287	7,703	928	1	8,632
Apr-18	249,159	27,547	289	276,994	68,556	7,453	9	76,017	19,662	2,565	2	22,229	18,327	1,899	5	20,232	7,694	924	1	8,619
May-18	249,536	27,554	289	277,379	68,578	7,457	9	76,044	19,613	2,586	2	22,200	18,214	1,885	5	20,104	7,668	924	2	8,594
Jun-18	249,919	27,592	292	277,803	68,366	7,446	9	75,821	19,501	2,581	2	22,084	18,080	1,881	5	19,965	7,626	925	2	8,553
Jul-18	249,956	27,550	295	277,801	68,144	7,439	9	75,592	19,569	2,575	2	22,146	18,156	1,887	5	20,048	7,487	927	2	8,417
Aug-18	250,273	27,676	292	278,241	67,978	7,444	9	75,431	19,491	2,569	2	22,061	18,031	1,881	5	19,916	7,459	929	3	8,392
Sep-18	251,135	27,780	294	279,208	68,174	7,470	9	75,654	19,446	2,565	2	22,013	18,047	1,891	5	19,943	7,444	932	7	8,383
Oct-18	252,793	27,809	291	280,893	68,814	7,456	9	76,279	19,635	2,569	2	22,206	18,289	1,870	5	20,164	7,585	931	7	8,524
Nov-18	253,696	27,972	293	281,962	69,624	7,547	9	77,180	19,957	2,589	2	22,548	18,563	1,886	5	20,454	7,696	931	5	8,633
Dec-18	255,071	28,086	295	283,452	70,455	7,583	9	78,048	20,119	2,592	2	22,713	18,770	1,908	4	20,683	7,769	931	2	8,703
Jan-19	254,242	28,064	291	282,596	70,091	7,563	9	77,664	20,337	2,617	2	22,957	18,699	1,920	4	20,623	7,808	932	1	8,741
Feb-19	254,362	28,216	295	282,874	70,179	7,571	9	77,759	20,392	2,618	2	23,013	18,743	1,932	5	20,680	7,821	932	1	8,753
Mar-19	254,758	28,179	293	283,229	70,364	7,588	9	77,961	20,464	2,622	2	23,087	18,777	1,933	5	20,715	7,809	933	1	8,743
Apr-19	254,631	28,150	293	283,073	70,315	7,551	9	77,875	20,355	2,606	2	22,963	18,728	1,925	5	20,658	7,800	928	1	8,729
May-19	255,016	28,157	293	283,466	70,338	7,555	9	77,902	20,305	2,626	2	22,933	18,612	1,911	5	20,528	7,774	928	2	8,704
Jun-19	255,408	28,196	296	283,900	70,120	7,544	9	77,674	20,189	2,622	2	22,813	18,475	1,906	5	20,386	7,731	929	2	8,662
Jul-19	255,445	28,153	299	283,898	69,893	7,538	9	77,439	20,259	2,616	2	22,877	18,553	1,913	5	20,471	7,590	932	2	8,524
Aug-19	255,770	28,281	296	284,347	69,723	7,542	9	77,274	20,178	2,609	2	22,790	18,425	1,906	5	20,336	7,562	934	3	8,499
Sep-19	256,650	28,388	298	285,336	69,924	7,569	9	77,502	20,132	2,606	2	22,739	18,442	1,916	5	20,363	7,546	937	7	8,490
Oct-19	258,345	28,418	295	287,058	70,581	7,554	9	78,144	20,328	2,609	2	22,939	18,689	1,895	5	20,589	7,690	936	7	8,632

Appendix 2.2 - Customer Forecast - Number by Region
Expected Case

	WA/ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA/ID Res	WA/ID Com	WA/ID Firm Ind	WA/ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-19	259,268	28,585	297	288,150	71,411	7,647	9	79,067	20,661	2,630	2	23,293	18,969	1,912	5	20,886	7,802	936	5	8,743
Dec-19	260,673	28,701	299	289,673	72,264	7,684	9	79,956	20,828	2,633	2	23,464	19,181	1,934	4	21,119	7,876	936	2	8,814
Jan-20	260,002	28,689	292	288,982	71,833	7,667	9	79,509	21,041	2,660	2	23,703	19,112	1,947	4	21,062	7,929	936	1	8,866
Feb-20	260,126	28,845	296	289,266	71,923	7,675	9	79,607	21,098	2,661	2	23,761	19,156	1,959	5	21,120	7,942	936	1	8,879
Mar-20	260,530	28,806	294	289,630	72,113	7,692	9	79,813	21,172	2,664	2	23,838	19,191	1,960	5	21,156	7,930	937	1	8,868
Apr-20	260,400	28,777	294	289,470	72,062	7,654	9	79,726	21,060	2,648	2	23,710	19,141	1,952	5	21,099	7,921	933	1	8,855
May-20	260,794	28,784	294	289,872	72,086	7,659	9	79,754	21,007	2,669	2	23,678	19,023	1,937	5	20,966	7,894	933	2	8,829
Jun-20	261,195	28,824	297	290,315	71,862	7,648	9	79,519	20,888	2,664	2	23,555	18,883	1,933	5	20,821	7,851	934	2	8,786
Jul-20	261,233	28,780	300	290,313	71,629	7,641	9	79,279	20,960	2,659	2	23,621	18,962	1,940	5	20,907	7,708	936	2	8,646
Aug-20	261,565	28,911	297	290,773	71,455	7,645	9	79,110	20,877	2,652	2	23,530	18,832	1,933	5	20,770	7,679	938	3	8,620
Sep-20	262,465	29,020	299	291,784	71,661	7,673	9	79,343	20,828	2,648	2	23,479	18,849	1,943	5	20,797	7,663	941	7	8,611
Oct-20	264,198	29,051	296	293,545	72,334	7,658	9	80,001	21,031	2,652	2	23,685	19,102	1,922	5	21,028	7,809	940	7	8,756
Nov-20	265,142	29,221	298	294,662	73,185	7,752	9	80,946	21,376	2,673	2	24,051	19,388	1,939	5	21,331	7,923	940	5	8,868
Dec-20	266,579	29,340	300	296,219	74,059	7,789	9	81,857	21,549	2,676	2	24,228	19,604	1,961	4	21,570	7,999	940	2	8,941
Jan-21	265,962	29,316	294	295,572	73,525	7,757	9	81,291	21,734	2,693	2	24,429	19,524	1,967	4	21,495	8,035	940	1	8,976
Feb-21	266,088	29,475	299	295,862	73,617	7,765	9	81,391	21,793	2,694	2	24,489	19,570	1,980	5	21,555	8,048	940	1	8,989
Mar-21	266,502	29,436	297	296,234	73,811	7,783	9	81,602	21,869	2,698	2	24,569	19,606	1,981	5	21,591	8,036	941	1	8,978
Apr-21	266,369	29,405	297	296,071	73,759	7,745	9	81,513	21,753	2,681	2	24,437	19,555	1,973	5	21,532	8,027	937	1	8,965
May-21	266,772	29,413	297	296,482	73,783	7,749	9	81,542	21,699	2,703	2	24,404	19,434	1,958	5	21,397	8,000	937	2	8,939
Jun-21	267,182	29,453	300	296,935	73,555	7,738	9	81,302	21,576	2,698	2	24,276	19,290	1,953	5	21,249	7,955	938	2	8,895
Jul-21	267,221	29,409	303	296,933	73,316	7,731	9	81,056	21,651	2,692	2	24,345	19,372	1,960	5	21,337	7,811	940	2	8,753
Aug-21	267,560	29,543	300	297,403	73,138	7,736	9	80,883	21,564	2,685	2	24,251	19,238	1,953	5	21,196	7,782	942	3	8,727
Sep-21	268,481	29,654	302	298,437	73,349	7,763	9	81,121	21,514	2,681	2	24,198	19,256	1,963	5	21,225	7,766	945	7	8,718
Oct-21	270,254	29,686	299	300,238	74,038	7,748	9	81,795	21,724	2,685	2	24,411	19,514	1,942	5	21,461	7,913	944	7	8,864
Nov-21	271,220	29,860	301	301,381	74,909	7,843	9	82,761	22,080	2,706	2	24,788	19,806	1,959	5	21,770	8,029	944	5	8,978
Dec-21	272,689	29,981	303	302,974	75,803	7,881	9	83,693	22,259	2,710	2	24,971	20,028	1,982	4	22,013	8,106	944	2	9,051
Jan-22	272,119	29,942	296	302,357	75,167	7,854	9	83,029	22,427	2,732	2	25,161	19,937	1,992	4	21,933	8,141	944	1	9,086
Feb-22	272,248	30,104	301	302,653	75,261	7,862	9	83,132	22,488	2,733	2	25,223	19,984	2,004	5	21,993	8,154	944	1	9,099
Mar-22	272,671	30,064	299	303,034	75,459	7,879	9	83,347	22,566	2,737	2	25,305	20,020	2,006	5	22,031	8,142	945	1	9,088
Apr-22	272,535	30,033	299	302,867	75,407	7,841	9	83,257	22,447	2,720	2	25,169	19,968	1,997	5	21,970	8,133	941	1	9,074
May-22	272,948	30,041	299	303,288	75,431	7,846	9	83,286	22,391	2,742	2	25,134	19,845	1,982	5	21,832	8,106	941	2	9,048
Jun-22	273,367	30,082	302	303,752	75,198	7,834	9	83,041	22,264	2,737	2	25,003	19,698	1,978	5	21,681	8,060	942	2	9,004
Jul-22	273,407	30,037	305	303,750	74,953	7,827	9	82,790	22,341	2,731	2	25,074	19,781	1,985	5	21,771	7,914	944	2	8,860
Aug-22	273,754	30,174	302	304,230	74,771	7,832	9	82,612	22,252	2,724	2	24,977	19,645	1,978	5	21,628	7,885	946	3	8,833
Sep-22	274,697	30,287	304	305,288	74,987	7,860	9	82,856	22,200	2,720	2	24,922	19,663	1,988	5	21,656	7,868	949	7	8,824
Oct-22	276,510	30,319	301	307,131	75,691	7,844	9	83,545	22,417	2,724	2	25,142	19,927	1,966	5	21,898	8,018	948	7	8,973
Nov-22	277,499	30,497	303	308,299	76,582	7,940	9	84,531	22,784	2,745	2	25,531	20,225	1,983	5	22,214	8,135	948	5	9,088
Dec-22	279,002	30,621	305	309,929	77,496	7,979	9	85,484	22,969	2,749	2	25,719	20,451	2,007	4	22,462	8,212	948	2	9,162
Jan-23	278,476	30,567	299	309,342	76,784	7,952	9	84,745	23,109	2,771	2	25,882	20,337	2,016	4	22,357	8,232	948	1	9,181
Feb-23	278,608	30,733	304	309,644	76,880	7,960	9	84,850	23,171	2,772	2	25,946	20,385	2,029	5	22,419	8,245	948	1	9,194
Mar-23	279,041	30,692	302	310,034	77,083	7,978	9	85,070	23,252	2,776	2	26,030	20,422	2,030	5	22,457	8,233	949	1	9,183
Apr-23	278,902	30,660	302	309,864	77,029	7,939	9	84,977	23,129	2,759	2	25,890	20,369	2,022	5	22,396	8,224	945	1	9,169
May-23	279,324	30,668	302	310,294	77,054	7,944	9	85,007	23,072	2,781	2	25,854	20,243	2,007	5	22,255	8,196	945	2	9,143
Jun-23	279,753	30,710	305	310,768	76,815	7,932	9	84,757	22,941	2,776	2	25,719	20,093	2,002	5	22,101	8,150	946	2	9,098
Jul-23	279,794	30,664	308	310,766	76,566	7,925	9	84,500	23,020	2,770	2	25,792	20,178	2,009	5	22,192	8,003	948	2	8,953
Aug-23	280,149	30,804	305	311,258	76,380	7,930	9	84,319	22,928	2,762	2	25,693	20,039	2,002	5	22,046	7,973	950	3	8,926
Sep-23	281,114	30,919	307	312,340	76,600	7,958	9	84,568	22,875	2,759	2	25,636	20,058	2,013	5	22,075	7,956	953	7	8,916
Oct-23	282,970	30,952	304	314,226	77,320	7,943	9	85,272	23,098	2,762	2	25,863	20,326	1,990	5	22,322	8,107	952	7	9,066
Nov-23	283,981	31,134	306	315,421	78,229	8,040	9	86,278	23,477	2,784	2	26,263	20,631	2,008	5	22,644	8,226	952	5	9,183
Dec-23	285,520	31,260	308	317,089	79,163	8,079	9	87,251	23,667	2,788	2	26,457	20,861	2,032	4	22,897	8,304	952	2	9,258
Jan-24	284,832	31,193	300	316,325	78,351	8,054	9	86,414	23,802	2,812	2	26,616	20,725	2,043	4	22,772	8,323	952	1	9,276
Feb-24	284,968	31,362	305	316,635	78,449	8,062	9	86,520	23,866	2,813	2	26,681	20,773	2,056	5	22,835	8,336	952	1	9,289
Mar-24	285,410	31,320	303	317,033	78,656	8,080	9	86,745	23,950	2,817	2	26,768	20,811	2,057	5	22,873	8,324	953	1	9,278
Apr-24	285,268	31,288	303	316,859	78,601	8,041	9	86,651	23,823	2,799	2	26,624	20,757	2,049	5	22,811	8,314	949	1	9,264
May-24	285,700	31,296	303	317,299	78,627	8,045	9	86,681	23,763	2,822	2	26,587	20,629	2,034	5	22,668	8,286	949	2	9,238
Jun-24	286,139	31,339	306	317,784	78,383	8,034	9	86,426	23,629	2,817	2	26,447	20,476	2,029	5	22,510	8,240	950	2	9,192
Jul-24	286,181	31,292	309	317,782	78,129	8,026	9	86,164	23,711	2,810	2	26,523	20,563	2,036	5	22,604	8,091	952	2	9,045
Aug-24	286,544	31,434	306	318,285	77,939	8,031	9	85,979	23,616	2,803	2	26,421	20,421	2,029	5	22,455	8,061	954	3	9,018
Sep-24	287,530	31,553	308	319,391	78,164	8,060	9	86,233	23,561	2,799	2	26,363	20,440	2,040	5	22,485	8,044	958	7	9,008
Oct-24	289,429	31,586	305	321,320	78,898	8,044	9	86,951	23,791	2,803	2	26,596	20,714	2,017	5	22,736	8,197	956	7	9,160
Nov-24	290,463	31,771	307	322,542	79,826	8,143	9	87,978	24,181	2,825	2	27,008	21,024	2,035	5	23,064	8,317	956	5	9,278
Dec-24	292,037	31,900	309	324,247	80,779	8,182	9	88,970	24,377	2,829	2	27,208	21,259	2,059	4	23,322	8,396	956	2	9,354
Jan-25	291,189	31,819	303	323,311	79,893	8,158	9	88,061	24,495	2,855	2	27,352	21,125	2,072	4	23,201	8,414	957	1	9,371
Feb-25	291,327	31,991	308	323,627	79,994	8,166	9	88,169	24,561	2,856	2	27,419	21,174	2,085	5	23,265	8,427	957	1	9,385
Mar-25	291,780	31,949	306	324,034	80,205	8,184	9	88,398	24,647	2,860	2	27,509	21,213	2,087	5	23,304	8,415	958	1	9,374
Apr-25	291,635	31,916	306	323,856	80,149	8,145	9	88,303	24,516	2,843	2	27,361	21,158	2,078	5	23,241	8,405	953	1	9,359
May-25	292,076	31,924	306	324,306	80,174	8,150	9	88,333	24,455	2,865	2	27,322	21,027	2,062	5	23,095	8,377	953	2	9,332
Jun-25	292,525	31,968	309	324,802	79,926	8,138	9	88,073	24,317	2,860	2	27,179	20,872	2,058	5	22,934	8,330	954	2	9,287
Jul-25	292,567	31,920	313	324,800	79,667	8,130	9	87,806	24,401	2,854	2	27,257	20,960	2,065	5	23,030	8,179	957	2	9,138
Aug-25	292,939	32,065	309	325,313	79,473	8,135	9	87,618	24,303	2,846	2	27,152	20,815	2,058	5	22,878	8,149	959	3	9,110
Sep-25	293,947	32,186	311	326,444	79,703	8,164	9	87,876	24,247	2,843	2	27,092	20,835	2,068	5	22,908	8,131	962	7	9,100
Oct-25	295,888	32,220	308	328,416	80,451	8,148	9	88,609	24,483	2,846	2	27,332	21,114	2,046	5	23,164	8,286	961	7	9,254

Appendix 2.2 - Customer Forecast - Number by Region
Expected Case

	WA/ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA/ID Res	WA/ID Com	WA/ID Firm Ind	WA/ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-25	296,946	32,409	310	329,665	81,397	8,248	9	89,655	24,885	2,869	2	27,756	21,430	2,064	5	23,499	8,408	961	5	9,373
Dec-25	298,555	32,541	313	331,408	82,370	8,288	9	90,666	25,086	2,873	2	27,961	21,670	2,088	4	23,761	8,487	961	2	9,450
Jan-26	297,446	32,445	305	330,196	81,448	8,260	9	89,718	25,210	2,897	2	28,109	21,538	2,099	4	23,640	8,489	961	1	9,451
Feb-26	297,588	32,621	310	330,518	81,551	8,269	9	89,828	25,278	2,898	2	28,178	21,588	2,112	5	23,705	8,503	961	1	9,465
Mar-26	298,050	32,577	308	330,935	81,766	8,287	9	90,062	25,366	2,902	2	28,270	21,627	2,114	5	23,746	8,491	962	1	9,454
Apr-26	297,902	32,544	308	330,753	81,709	8,247	9	89,964	25,232	2,884	2	28,118	21,571	2,105	5	23,681	8,481	958	1	9,439
May-26	298,353	32,552	308	331,213	81,735	8,252	9	89,996	25,169	2,907	2	28,078	21,438	2,089	5	23,532	8,452	958	2	9,412
Jun-26	298,811	32,597	311	331,719	81,482	8,240	9	89,731	25,026	2,902	2	27,930	21,280	2,084	5	23,369	8,405	959	2	9,366
Jul-26	298,854	32,548	315	331,717	81,217	8,232	9	89,459	25,113	2,896	2	28,010	21,369	2,092	5	23,466	8,253	961	2	9,216
Aug-26	299,234	32,696	311	332,241	81,020	8,237	9	89,266	25,013	2,888	2	27,903	21,222	2,084	5	23,311	8,222	963	3	9,188
Sep-26	300,264	32,819	313	333,396	81,254	8,266	9	89,529	24,955	2,884	2	27,841	21,242	2,095	5	23,342	8,205	966	7	9,178
Oct-26	302,247	32,854	310	335,410	82,017	8,251	9	90,276	25,198	2,888	2	28,088	21,526	2,072	5	23,603	8,361	965	7	9,333
Nov-26	303,327	33,047	312	336,686	82,982	8,351	9	91,342	25,611	2,911	2	28,524	21,849	2,090	5	23,944	8,483	965	5	9,453
Dec-26	304,970	33,181	315	338,466	83,973	8,392	9	92,373	25,819	2,915	2	28,735	22,093	2,115	4	24,212	8,564	965	2	9,531
Jan-27	303,605	33,070	308	336,983	82,916	8,365	9	91,291	25,914	2,938	2	28,853	21,950	2,126	4	24,080	8,580	965	1	9,546
Feb-27	303,749	33,250	313	337,312	83,020	8,374	9	91,403	25,984	2,939	2	28,924	22,002	2,139	5	24,146	8,594	965	1	9,560
Mar-27	304,221	33,206	311	337,737	83,239	8,392	9	91,641	26,075	2,943	2	29,019	22,042	2,141	5	24,187	8,582	966	1	9,549
Apr-27	304,069	33,172	311	337,552	83,181	8,352	9	91,542	25,936	2,925	2	28,863	21,985	2,132	5	24,121	8,572	962	1	9,534
May-27	304,530	33,180	311	338,021	83,208	8,357	9	91,574	25,872	2,948	2	28,822	21,849	2,116	5	23,970	8,543	962	2	9,507
Jun-27	304,998	33,226	314	338,537	82,950	8,344	9	91,304	25,725	2,943	2	28,670	21,687	2,111	5	23,803	8,495	963	2	9,460
Jul-27	305,042	33,176	318	338,535	82,681	8,337	9	91,027	25,814	2,936	2	28,752	21,779	2,118	5	23,902	8,341	965	2	9,308
Aug-27	305,429	33,327	314	339,070	82,480	8,342	9	90,831	25,711	2,929	2	28,642	21,629	2,111	5	23,745	8,310	967	3	9,280
Sep-27	306,481	33,452	316	340,249	82,718	8,371	9	91,099	25,652	2,925	2	28,578	21,649	2,122	5	23,776	8,292	970	7	9,270
Oct-27	308,504	33,488	313	342,305	83,495	8,355	9	91,860	25,902	2,929	2	28,832	21,939	2,098	5	24,042	8,450	969	7	9,427
Nov-27	309,607	33,684	315	343,606	84,477	8,458	9	92,944	26,326	2,952	2	29,280	22,268	2,117	5	24,390	8,574	969	5	9,548
Dec-27	311,284	33,821	318	345,423	85,486	8,498	9	93,993	26,539	2,956	2	29,497	22,516	2,142	4	24,662	8,655	969	2	9,627

Appendix 2.2 - Customer Forecast - Number by Region
High Growth Case

	WA/ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA/ID Res	WA/ID Com	WA/ID Firm Ind	WA/ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-07	195,608	21,927	272	217,807	50,367	6,478	9	56,854	13,207	2,184	2	15,393	13,846	1,595	7	15,448	6,417	896	14	7,327
Dec-07	197,373	22,072	276	219,721	51,082	6,528	9	57,619	13,389	2,196	2	15,587	14,106	1,624	5	15,736	6,514	896	5	7,415
Jan-08	197,899	22,002	273	220,175	51,415	6,553	9	57,978	13,452	2,205	2	15,659	14,187	1,650	5	15,841	6,573	898	2	7,473
Feb-08	198,051	22,192	280	220,523	51,520	6,564	9	58,093	13,512	2,207	2	15,721	14,240	1,666	7	15,913	6,590	898	2	7,489
Mar-08	198,548	22,145	276	220,970	51,665	6,586	9	58,260	13,590	2,211	2	15,803	14,282	1,668	7	15,957	6,575	899	2	7,476
Apr-08	198,388	22,109	276	220,774	51,682	6,537	9	58,227	13,472	2,190	2	15,664	14,223	1,657	7	15,887	6,563	893	2	7,458
May-08	198,873	22,118	276	221,267	51,634	6,543	9	58,186	13,416	2,217	2	15,636	14,081	1,638	7	15,725	6,529	893	5	7,427
Jun-08	199,365	22,167	281	221,812	51,375	6,528	9	57,912	13,290	2,211	2	15,504	13,912	1,632	7	15,551	6,472	895	5	7,371
Jul-08	199,110	22,114	286	221,510	51,104	6,519	9	57,632	13,292	2,204	2	15,498	13,858	1,641	7	15,506	6,288	898	5	7,191
Aug-08	199,518	22,274	281	222,073	50,902	6,525	9	57,436	13,204	2,195	2	15,400	13,702	1,632	7	15,340	6,251	901	8	7,160
Sep-08	200,624	22,406	284	223,314	51,142	6,561	9	57,712	13,153	2,190	2	15,345	13,723	1,645	7	15,375	6,230	905	20	7,155
Oct-08	202,752	22,444	280	225,476	51,698	6,541	9	58,248	13,367	2,195	2	15,563	14,026	1,617	7	15,649	6,418	904	20	7,342
Nov-08	203,912	22,652	283	226,847	52,461	6,666	9	59,135	13,731	2,222	2	15,955	14,369	1,639	7	16,015	6,566	904	14	7,484
Dec-08	205,677	22,797	286	228,759	53,250	6,715	9	59,974	13,913	2,226	2	16,142	14,628	1,669	5	16,303	6,663	904	5	7,572
Jan-09	206,506	22,736	280	229,521	53,359	6,720	9	60,088	14,051	2,273	2	16,326	14,709	1,691	5	16,405	6,723	905	2	7,629
Feb-09	206,657	22,926	286	229,870	53,539	6,730	9	60,278	14,111	2,274	2	16,387	14,763	1,708	7	16,477	6,739	905	2	7,646
Mar-09	207,154	22,879	283	230,316	53,759	6,753	9	60,520	14,189	2,279	2	16,470	14,804	1,709	7	16,521	6,724	906	2	7,632
Apr-09	206,994	22,843	283	230,120	53,850	6,703	9	60,562	14,071	2,258	2	16,330	14,745	1,699	7	16,450	6,712	900	2	7,614
May-09	207,479	22,852	283	230,614	53,877	6,709	9	60,595	14,015	2,285	2	16,302	14,603	1,679	7	16,289	6,678	900	5	7,583
Jun-09	207,971	22,901	288	231,159	53,618	6,694	9	60,321	13,889	2,279	2	16,170	14,434	1,673	7	16,115	6,621	902	5	7,528
Jul-09	208,017	22,848	292	231,157	53,347	6,685	9	60,042	13,966	2,271	2	16,239	14,455	1,682	7	16,145	6,437	905	5	7,347
Aug-09	208,425	23,008	288	231,720	53,146	6,691	9	59,846	13,877	2,262	2	16,141	14,299	1,673	7	15,979	6,400	908	8	7,316
Sep-09	209,531	23,140	291	232,962	53,385	6,727	9	60,121	13,826	2,258	2	16,086	14,320	1,687	7	16,013	6,379	912	20	7,311
Oct-09	211,659	23,178	286	235,123	54,016	6,708	9	60,733	14,041	2,262	2	16,305	14,622	1,659	7	16,288	6,567	911	20	7,498
Nov-09	212,819	23,386	289	236,494	54,853	6,832	9	61,694	14,404	2,289	2	16,696	14,966	1,681	7	16,653	6,715	911	14	7,640
Dec-09	214,584	23,531	292	238,407	55,718	6,882	9	62,608	14,587	2,294	2	16,883	15,225	1,711	5	16,941	6,812	911	5	7,728
Jan-10	215,336	23,544	289	239,169	55,827	6,864	9	62,700	14,800	2,336	2	17,138	15,306	1,730	5	17,041	6,872	911	2	7,785
Feb-10	215,488	23,734	296	239,517	56,006	6,875	9	62,890	14,860	2,338	2	17,199	15,360	1,746	7	17,113	6,888	911	2	7,802
Mar-10	215,984	23,687	292	239,964	56,226	6,897	9	63,132	14,937	2,342	2	17,282	15,401	1,748	7	17,156	6,873	913	2	7,788
Apr-10	215,825	23,651	292	239,768	56,168	6,848	9	63,025	14,819	2,321	2	17,142	15,342	1,737	7	17,086	6,861	907	2	7,770
May-10	216,309	23,660	292	240,262	56,195	6,854	9	63,058	14,764	2,348	2	17,114	15,200	1,718	7	16,925	6,827	907	5	7,739
Jun-10	216,801	23,708	297	240,807	55,936	6,839	9	62,784	14,638	2,342	2	16,982	15,031	1,712	7	16,750	6,770	908	5	7,684
Jul-10	216,998	23,656	302	240,956	55,665	6,830	9	62,504	14,714	2,335	2	17,051	15,127	1,721	7	16,854	6,587	911	5	7,503
Aug-10	217,406	23,816	297	241,518	55,463	6,836	9	62,308	14,626	2,325	2	16,953	14,970	1,712	7	16,689	6,549	914	8	7,472
Sep-10	218,511	23,948	300	242,760	55,703	6,872	9	62,584	14,575	2,321	2	16,898	14,991	1,725	7	16,723	6,529	919	20	7,467
Oct-10	220,640	23,986	296	244,921	56,408	6,852	9	63,270	14,789	2,325	2	17,117	15,294	1,697	7	16,998	6,717	917	20	7,654
Nov-10	221,800	24,194	299	246,292	57,321	6,977	9	64,306	15,153	2,353	2	17,508	15,637	1,719	7	17,363	6,864	917	14	7,796
Dec-10	223,564	24,339	302	248,205	58,260	7,026	9	65,295	15,336	2,357	2	17,695	15,897	1,749	5	17,651	6,961	917	5	7,884
Jan-11	224,318	24,390	299	249,006	58,369	6,994	9	65,372	15,698	2,388	2	18,088	16,052	1,760	5	17,817	7,021	918	2	7,941
Feb-11	224,470	24,580	305	249,355	58,474	7,004	9	65,487	15,758	2,390	2	18,150	16,106	1,777	7	17,889	7,038	918	2	7,957
Mar-11	224,966	24,533	302	249,801	58,693	7,027	9	65,729	15,836	2,394	2	18,232	16,148	1,778	7	17,932	7,023	919	2	7,944
Apr-11	224,807	24,497	302	249,605	58,635	6,977	9	65,621	15,717	2,373	2	18,092	16,088	1,768	7	17,862	7,011	913	2	7,926
May-11	225,291	24,506	302	250,099	58,662	6,983	9	65,654	15,662	2,400	2	18,064	15,946	1,748	7	17,701	6,976	913	5	7,895
Jun-11	225,783	24,554	307	250,644	58,403	6,968	9	65,380	15,536	2,394	2	17,933	15,777	1,742	7	17,527	6,920	915	5	7,839
Jul-11	225,830	24,501	311	250,642	58,133	6,959	9	65,101	15,613	2,387	2	18,001	15,873	1,751	7	17,631	6,736	918	5	7,659
Aug-11	226,237	24,661	307	251,205	57,931	6,965	9	64,905	15,524	2,377	2	17,904	15,716	1,742	7	17,465	6,699	921	8	7,627
Sep-11	227,343	24,794	310	252,447	58,170	7,001	9	65,180	15,473	2,373	2	17,848	15,737	1,756	7	17,500	6,678	925	20	7,623
Oct-11	229,472	24,831	305	254,608	58,951	6,982	9	65,941	15,688	2,377	2	18,067	16,040	1,727	7	17,774	6,866	924	20	7,810
Nov-11	230,631	25,039	308	255,979	59,938	7,106	9	67,053	16,051	2,405	2	18,458	16,383	1,750	7	18,140	7,014	924	14	7,951
Dec-11	232,396	25,184	311	257,892	60,951	7,155	9	68,116	16,234	2,409	2	18,645	16,643	1,780	5	18,428	7,111	924	5	8,040
Jan-12	232,707	25,303	303	258,314	61,234	7,123	9	68,365	16,752	2,444	2	19,198	16,724	1,792	5	18,521	7,179	924	2	8,105
Feb-12	232,863	25,498	310	258,671	61,342	7,133	9	68,484	16,815	2,446	2	19,263	16,779	1,809	7	18,595	7,196	924	2	8,122
Mar-12	233,372	25,450	307	259,129	61,569	7,156	9	68,734	16,896	2,451	2	19,349	16,822	1,810	7	18,639	7,181	925	2	8,108
Apr-12	233,209	25,413	307	258,929	61,509	7,106	9	68,624	16,772	2,429	2	19,203	16,761	1,800	7	18,567	7,169	919	2	8,090
May-12	233,706	25,422	307	259,435	61,537	7,112	9	68,658	16,714	2,457	2	19,173	16,615	1,780	7	18,402	7,134	919	5	8,058
Jun-12	234,211	25,472	311	259,994	61,269	7,097	9	68,375	16,583	2,451	2	19,035	16,441	1,774	7	18,222	7,076	921	5	8,002
Jul-12	234,259	25,418	316	259,993	60,989	7,088	9	68,086	16,663	2,443	2	19,107	16,540	1,783	7	18,329	6,890	924	5	7,818
Aug-12	234,677	25,582	311	260,570	60,780	7,094	9	67,883	16,570	2,434	2	19,006	16,378	1,774	7	18,159	6,852	927	8	7,787
Sep-12	235,812	25,718	315	261,844	61,028	7,130	9	68,167	16,517	2,429	2	18,948	16,400	1,788	7	18,194	6,831	931	20	7,782
Oct-12	237,996	25,757	310	264,062	61,835	7,110	9	68,955	16,741	2,434	2	19,177	16,712	1,759	7	18,477	7,022	930	20	7,971
Nov-12	239,186	25,970	313	265,469	62,856	7,236	9	70,102	17,122	2,461	2	19,585	17,065	1,782	7	18,853	7,172	930	14	8,116
Dec-12	240,997	26,118	316	267,432	63,905	7,287	9	71,200	17,313	2,466	2	19,781	17,332	1,812	5	19,149	7,270	930	5	8,205
Jan-13	240,635	26,217	308	267,160	63,912	7,245	9	71,166	17,757	2,499	2	20,258	17,340	1,823	5	19,167	7,360	929	2	8,291
Feb-13	240,794	26,417	315	267,526	64,024	7,256	9	71,289	17,822	2,501	2	20,325	17,396	1,839	7	19,243	7,377	929	2	8,308
Mar-13	241,316	26,368	311	267,995	64,258	7,279	9	71,546	17,907	2,506	2	20,415	17,441	1,841	7	19,288	7,362	931	2	8,294
Apr-13	241,149	26,330	311	267,790	64,196	7,228	9	71,433	17,778	2,484	2	20,263	17,378	1,830	7	19,215	7,350	924	2	8,276
May-13	241,658	26,339	311	268,308	64,225	7,234	9	71,468	17,717	2,512	2	20,231	17,228	1,810	7	19,045	7,314	924	5	8,243
Jun-13	242,175	26,390	316	268,881	63,949	7,219	9	71,177	17,580	2,506	2	20,087	17,050	1,804	7	18,861	7,255	926	5	8,186
Jul-13	242,224	26,334	321	268,879	63,660	7,210	9	70,879	17,663	2,498	2	20,163	17,151	1,813	7	18,971	7,066	929	5	8,000
Aug-13	242,652	26,502	316	269,471	63,445	7,216	9	70,670	17,567	2,488	2	20,057	16,985	1,804	7	18,796	7,027	932	8	7,967
Sep-13	243,815	26,642	319	270,776	63,700	7,253	9	70,962	17,511	2,484	2	19,997	17,007	1,818	7	18,832	7,006	937	20	7,962
Oct-13	246,052	26,682	315	273,048	64,533	7,233	9	71,774	17,745	2,488	2	20,235	17,327	1,789	7	19,123	7,200	935	20	8,155

Appendix 2.2 - Customer Forecast - Number by Region
High Growth Case

	WA/ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA/ID Res	WA/ID Com	WA/ID Firm Ind	WA/ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-13	247,271	26,901	318	274,489	65,585	7,360	9	72,954	18,143	2,517	2	20,661	17,690	1,812	7	19,508	7,353	935	14	8,302
Dec-13	249,126	27,053	321	276,500	66,667	7,411	9	74,086	18,342	2,521	2	20,865	17,964	1,842	5	19,811	7,453	935	5	8,393
Jan-14	248,263	27,131	314	275,707	66,516	7,377	9	73,903	18,728	2,558	2	21,289	17,956	1,856	5	19,817	7,519	935	2	8,456
Feb-14	248,426	27,335	321	276,082	66,631	7,388	9	74,029	18,796	2,560	2	21,358	18,014	1,873	7	19,894	7,536	935	2	8,473
Mar-14	248,960	27,285	318	276,562	66,873	7,412	9	74,293	18,885	2,565	2	21,451	18,059	1,875	7	19,941	7,520	937	2	8,459
Apr-14	248,788	27,246	318	276,352	66,809	7,360	9	74,178	18,750	2,542	2	21,295	17,994	1,864	7	19,865	7,508	931	2	8,441
May-14	249,309	27,256	318	276,882	66,838	7,367	9	74,214	18,687	2,571	2	21,260	17,841	1,844	7	19,691	7,472	931	5	8,408
Jun-14	249,838	27,308	323	277,468	66,554	7,351	9	73,914	18,544	2,565	2	21,111	17,658	1,838	7	19,503	7,412	932	5	8,350
Jul-14	249,888	27,251	328	277,466	66,257	7,342	9	73,608	18,631	2,557	2	21,190	17,762	1,847	7	19,615	7,220	935	5	8,160
Aug-14	250,326	27,423	323	278,072	66,035	7,348	9	73,392	18,531	2,547	2	21,080	17,592	1,838	7	19,436	7,180	939	8	8,127
Sep-14	251,515	27,566	326	279,407	66,298	7,385	9	73,692	18,473	2,542	2	21,017	17,614	1,852	7	19,473	7,159	943	20	8,122
Oct-14	253,803	27,607	321	281,730	67,155	7,365	9	74,529	18,716	2,547	2	21,265	17,943	1,822	7	19,772	7,356	942	20	8,317
Nov-14	255,050	27,831	324	283,205	68,238	7,494	9	75,741	19,130	2,576	2	21,708	18,314	1,845	7	20,167	7,511	942	14	8,466
Dec-14	256,946	27,987	328	285,261	69,351	7,545	9	76,906	19,337	2,581	2	21,920	18,596	1,876	5	20,477	7,613	942	5	8,559
Jan-15	255,743	28,044	321	284,107	69,176	7,526	9	76,712	19,749	2,629	2	22,380	18,571	1,896	5	20,473	7,722	942	2	8,667
Feb-15	255,909	28,254	327	284,491	69,295	7,537	9	76,841	19,820	2,630	2	22,452	18,631	1,914	7	20,551	7,740	942	2	8,684
Mar-15	256,455	28,202	324	284,981	69,543	7,561	9	77,113	19,912	2,635	2	22,549	18,677	1,915	7	20,599	7,724	944	2	8,670
Apr-15	256,280	28,162	324	284,766	69,477	7,509	9	76,995	19,772	2,612	2	22,387	18,611	1,904	7	20,522	7,711	938	2	8,651
May-15	256,812	28,172	324	285,308	69,508	7,515	9	77,032	19,707	2,642	2	22,350	18,454	1,884	7	20,344	7,674	938	5	8,617
Jun-15	257,352	28,226	329	285,907	69,215	7,499	9	76,724	19,558	2,635	2	22,195	18,267	1,877	7	20,151	7,614	939	5	8,558
Jul-15	257,403	28,167	334	285,905	68,909	7,490	9	76,408	19,648	2,627	2	22,277	18,373	1,887	7	20,266	7,417	942	5	8,365
Aug-15	257,851	28,344	329	286,524	68,681	7,496	9	76,187	19,544	2,617	2	22,163	18,199	1,877	7	20,083	7,378	946	8	8,331
Sep-15	259,065	28,490	332	287,888	68,952	7,534	9	76,495	19,484	2,612	2	22,098	18,222	1,892	7	20,120	7,355	950	20	8,325
Oct-15	261,403	28,532	327	290,263	69,834	7,514	9	77,356	19,737	2,617	2	22,356	18,558	1,862	7	20,427	7,556	949	20	8,525
Nov-15	262,677	28,762	331	291,770	70,949	7,644	9	78,602	20,167	2,647	2	22,816	18,939	1,885	7	20,831	7,714	949	14	8,677
Dec-15	264,616	28,921	334	293,871	72,094	7,696	9	79,799	20,383	2,651	2	23,037	19,227	1,917	5	21,149	7,818	949	5	8,771
Jan-16	263,370	28,958	327	292,655	71,911	7,691	9	79,611	20,803	2,705	2	23,510	19,187	1,943	5	21,135	7,926	951	2	8,878
Feb-16	263,541	29,172	334	293,047	72,033	7,702	9	79,744	20,877	2,706	2	23,585	19,248	1,960	7	21,215	7,943	951	2	8,896
Mar-16	264,098	29,120	330	293,548	72,288	7,726	9	80,024	20,973	2,711	2	23,686	19,296	1,962	7	21,264	7,927	952	2	8,881
Apr-16	263,919	29,079	330	293,328	72,220	7,674	9	79,903	20,827	2,688	2	23,517	19,228	1,951	7	21,185	7,914	946	2	8,862
May-16	264,463	29,089	330	293,882	72,252	7,680	9	79,941	20,759	2,718	2	23,479	19,067	1,930	7	21,003	7,877	946	5	8,828
Jun-16	265,015	29,143	335	294,494	71,951	7,664	9	79,624	20,604	2,711	2	23,318	18,875	1,923	7	20,805	7,815	947	5	8,768
Jul-16	265,067	29,084	340	294,491	71,636	7,654	9	79,300	20,698	2,703	2	23,403	18,984	1,933	7	20,924	7,615	951	5	8,571
Aug-16	265,525	29,264	335	295,124	71,401	7,661	9	79,071	20,590	2,693	2	23,285	18,805	1,923	7	20,736	7,575	954	8	8,536
Sep-16	266,765	29,414	339	296,519	71,680	7,699	9	79,388	20,527	2,688	2	23,217	18,829	1,938	7	20,774	7,552	958	20	8,530
Oct-16	269,154	29,457	334	298,945	72,587	7,678	9	80,275	20,790	2,693	2	23,485	19,174	1,908	7	21,088	7,757	957	20	8,733
Nov-16	270,456	29,692	337	300,485	73,734	7,811	9	81,555	21,238	2,723	2	23,963	19,564	1,931	7	21,502	7,917	957	14	8,888
Dec-16	272,436	29,856	340	302,633	74,913	7,864	9	82,786	21,462	2,728	2	24,192	19,859	1,963	5	21,827	8,023	957	5	8,985
Jan-17	271,141	29,870	330	301,341	74,627	7,852	9	82,488	21,873	2,776	2	24,652	19,822	1,986	5	21,813	8,106	958	2	9,067
Feb-17	271,316	30,089	337	301,742	74,752	7,863	9	82,624	21,950	2,778	2	24,730	19,884	2,004	7	21,895	8,125	958	2	9,085
Mar-17	271,885	30,035	333	302,254	75,014	7,888	9	82,911	22,050	2,783	2	24,835	19,933	2,005	7	21,945	8,108	960	2	9,070
Apr-17	271,702	29,994	333	302,029	74,945	7,834	9	82,788	21,898	2,760	2	24,660	19,863	1,994	7	21,864	8,095	953	2	9,050
May-17	272,257	30,004	333	302,595	74,977	7,841	9	82,827	21,828	2,790	2	24,620	19,698	1,973	7	21,678	8,057	953	5	9,015
Jun-17	272,821	30,060	339	303,220	74,668	7,824	9	82,501	21,667	2,783	2	24,452	19,502	1,966	7	21,475	7,994	955	5	8,954
Jul-17	272,875	29,999	344	303,217	74,344	7,815	9	82,168	21,764	2,775	2	24,541	19,613	1,976	7	21,596	7,791	958	5	8,754
Aug-17	273,342	30,184	339	303,865	74,103	7,821	9	81,933	21,652	2,765	2	24,418	19,431	1,966	7	21,404	7,750	961	8	8,719
Sep-17	274,610	30,337	342	305,289	74,389	7,860	9	82,258	21,586	2,760	2	24,348	19,455	1,981	7	21,443	7,727	966	20	8,713
Oct-17	277,051	30,381	337	307,768	75,322	7,839	9	83,170	21,860	2,765	2	24,627	19,808	1,950	7	21,765	7,935	964	20	8,919
Nov-17	278,381	30,621	340	309,342	76,501	7,974	9	84,484	22,325	2,795	2	25,122	20,207	1,975	7	22,189	8,098	964	14	9,077
Dec-17	280,404	30,789	344	311,536	77,713	8,027	9	85,750	22,559	2,800	2	25,361	20,510	2,007	5	22,522	8,206	964	5	9,175
Jan-18	279,210	30,776	335	310,320	77,231	8,002	9	85,242	22,911	2,840	2	25,753	20,437	2,024	5	22,467	8,287	965	2	9,254
Feb-18	279,388	31,000	342	310,730	77,359	8,013	9	85,382	22,990	2,841	2	25,834	20,501	2,042	7	22,551	8,306	965	2	9,272
Mar-18	279,969	30,945	338	311,253	77,629	8,038	9	85,676	23,093	2,847	2	25,942	20,551	2,044	7	22,602	8,289	966	2	9,257
Apr-18	279,783	30,902	338	311,023	77,557	7,984	9	85,550	22,937	2,823	2	25,761	20,480	2,033	7	22,520	8,276	960	2	9,238
May-18	280,350	30,913	338	311,602	77,590	7,990	9	85,590	22,863	2,853	2	25,719	20,311	2,011	7	22,329	8,237	960	5	9,202
Jun-18	280,927	30,970	343	312,240	77,273	7,974	9	85,256	22,697	2,847	2	25,545	20,110	2,005	7	22,122	8,173	961	5	9,140
Jul-18	280,981	30,908	349	312,238	76,941	7,964	9	84,914	22,798	2,838	2	25,638	20,224	2,014	7	22,245	7,967	965	5	8,936
Aug-18	281,459	31,097	343	312,899	76,694	7,971	9	84,673	22,681	2,828	2	25,511	20,037	2,005	7	22,049	7,925	968	8	8,901
Sep-18	282,755	31,254	347	314,355	76,987	8,010	9	85,006	22,613	2,823	2	25,438	20,062	2,019	7	22,089	7,901	972	20	8,894
Oct-18	285,249	31,298	342	316,889	77,944	7,989	9	85,942	22,897	2,828	2	25,727	20,423	1,988	7	22,418	8,113	971	20	9,104
Nov-18	286,608	31,544	345	318,498	79,155	8,125	9	87,289	23,379	2,859	2	26,240	20,832	2,013	7	22,852	8,279	971	14	9,264
Dec-18	288,676	31,715	349	320,740	80,398	8,180	9	88,587	23,621	2,864	2	26,487	21,141	2,046	5	23,192	8,388	971	5	9,364
Jan-19	287,429	31,682	341	319,452	79,854	8,149	9	88,012	23,948	2,902	2	26,852	21,035	2,063	5	23,102	8,446	971	2	9,419
Feb-19	287,610	31,912	348	319,870	79,985	8,161	9	88,155	24,031	2,903	2	26,936	21,100	2,081	7	23,188	8,464	971	2	9,437
Mar-19	288,205	31,855	344	320,405	80,262	8,186	9	88,457	24,137	2,909	2	27,048	21,151	2,083	7	23,241	8,447	973	2	9,422
Apr-19	288,014	31,811	344	320,170	80,188	8,131	9	88,329	23,975	2,884	2	26,861	21,078	2,071	7	23,156	8,434	966	2	9,402
May-19	288,594	31,822	344	320,761	80,222	8,138	9	88,369	23,899	2,916	2	26,817	20,906	2,049	7	22,962	8,395	966	5	9,366
Jun-19	289,183	31,881	350	321,414	79,897	8,121	9	88,027	23,727	2,909	2	26,637	20,700	2,043	7	22,750	8,330	968	5	9,303
Jul-19	289,239	31,817	355	321,411	79,556	8,111	9	87,677	23,831	2,900	2	26,733	20,817	2,053	7	22,876	8,121	971	5	9,097
Aug-19	289,727	32,010	350	322,087	79,303	8,118	9	87,429	23,710	2,889	2	26,602	20,626	2,043	7	22,676	8,078	974	8	9,060
Sep-19	291,051	32,170	353	323,575	79,604	8,158	9	87,770	23,640	2,884	2	26,527	20,651	2,058	7	22,716	8,054	979	20	9,053
Oct-19	293,601	32,216	348	326,164	80,585	8,136	9	88,730	23,934	2,889	2	26,825	21,020	2,026	7	23,053	8,269	977	20	9,266

Appendix 2.2 - Customer Forecast - Number by Region
High Growth Case

	WA/ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA/ID Res	WA/ID Com	WA/ID Firm Ind	WA/ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-19	294,990	32,467	351	327,808	81,827	8,275	9	90,110	24,433	2,921	2	27,356	21,438	2,051	7	23,496	8,437	977	14	9,428
Dec-19	297,103	32,642	355	330,100	83,102	8,330	9	91,441	24,684	2,926	2	27,612	21,754	2,084	5	23,844	8,548	977	5	9,530
Jan-20	296,094	32,624	343	329,060	82,458	8,305	9	90,772	25,002	2,966	2	27,971	21,650	2,103	5	23,758	8,626	978	2	9,606
Feb-20	296,280	32,859	350	329,488	82,593	8,317	9	90,918	25,087	2,968	2	28,057	21,717	2,121	7	23,846	8,645	978	2	9,625
Mar-20	296,888	32,801	346	330,035	82,876	8,342	9	91,227	25,198	2,973	2	28,173	21,769	2,123	7	23,899	8,628	979	2	9,609
Apr-20	296,693	32,756	346	329,795	82,801	8,286	9	91,096	25,030	2,949	2	27,981	21,695	2,111	7	23,813	8,614	973	2	9,589
May-20	297,286	32,767	346	330,399	82,836	8,293	9	91,138	24,951	2,981	2	27,934	21,519	2,089	7	23,615	8,575	973	5	9,552
Jun-20	297,888	32,827	351	331,067	82,502	8,276	9	90,787	24,773	2,973	2	27,748	21,309	2,083	7	23,398	8,509	974	5	9,488
Jul-20	297,945	32,762	357	331,064	82,153	8,266	9	90,428	24,881	2,965	2	27,848	21,428	2,093	7	23,527	8,297	978	5	9,279
Aug-20	298,445	32,959	351	331,755	81,893	8,273	9	90,175	24,756	2,954	2	27,712	21,233	2,083	7	23,322	8,253	981	8	9,242
Sep-20	299,799	33,123	355	333,277	82,202	8,313	9	90,524	24,684	2,949	2	27,634	21,259	2,098	7	23,363	8,229	985	20	9,235
Oct-20	302,406	33,170	350	335,925	83,208	8,291	9	91,508	24,987	2,954	2	27,943	21,636	2,066	7	23,708	8,447	984	20	9,451
Nov-20	303,826	33,426	353	337,606	84,480	8,432	9	92,921	25,504	2,986	2	28,492	22,063	2,091	7	24,161	8,618	984	14	9,616
Dec-20	305,987	33,605	357	339,949	85,787	8,487	9	94,283	25,763	2,991	2	28,756	22,386	2,125	5	24,516	8,730	984	5	9,719
Jan-21	305,059	33,569	347	338,975	84,988	8,440	9	93,437	26,040	3,017	2	29,059	22,266	2,133	5	24,405	8,785	983	2	9,770
Feb-21	305,249	33,809	354	339,412	85,126	8,452	9	93,587	26,128	3,019	2	29,148	22,335	2,152	7	24,494	8,804	983	2	9,789
Mar-21	305,871	33,750	351	339,972	85,416	8,478	9	93,903	26,242	3,024	2	29,268	22,388	2,154	7	24,548	8,787	985	2	9,774
Apr-21	305,671	33,704	351	339,726	85,339	8,421	9	93,769	26,068	2,999	2	29,069	22,312	2,142	7	24,460	8,773	979	2	9,753
May-21	306,278	33,716	351	340,345	85,374	8,428	9	93,812	25,987	3,031	2	29,020	22,132	2,120	7	24,258	8,732	979	5	9,716
Jun-21	306,895	33,776	356	341,027	85,033	8,411	9	93,453	25,803	3,024	2	28,829	21,917	2,113	7	24,037	8,666	980	5	9,651
Jul-21	306,953	33,710	361	341,024	84,676	8,401	9	93,086	25,915	3,015	2	28,932	22,039	2,123	7	24,169	8,450	983	5	9,439
Aug-21	307,464	33,911	356	341,731	84,410	8,408	9	92,826	25,785	3,004	2	28,792	21,839	2,113	7	23,959	8,407	987	8	9,401
Sep-21	308,849	34,079	360	343,288	84,725	8,449	9	93,183	25,711	2,999	2	28,712	21,866	2,128	7	24,001	8,382	991	20	9,394
Oct-21	311,516	34,126	354	345,997	85,755	8,427	9	94,191	26,024	3,004	2	29,031	22,251	2,096	7	24,354	8,603	990	20	9,613
Nov-21	312,969	34,389	358	347,716	87,057	8,569	9	95,635	26,558	3,037	2	29,597	22,687	2,121	7	24,816	8,776	990	14	9,780
Dec-21	315,179	34,572	361	350,113	88,395	8,625	9	97,029	26,826	3,042	2	29,870	23,017	2,155	5	25,178	8,890	990	5	9,885
Jan-22	314,321	34,513	350	349,184	87,443	8,585	9	96,037	27,077	3,076	2	30,155	22,882	2,170	5	25,057	8,943	989	2	9,934
Feb-22	314,516	34,757	358	349,631	87,584	8,597	9	96,190	27,168	3,078	2	30,248	22,952	2,189	7	25,148	8,963	989	2	9,954
Mar-22	315,152	34,697	354	350,203	87,881	8,623	9	96,513	27,286	3,083	2	30,371	23,006	2,191	7	25,204	8,945	991	2	9,938
Apr-22	314,948	34,650	354	349,952	87,802	8,566	9	96,377	27,107	3,058	2	30,167	22,929	2,179	7	25,114	8,931	985	2	9,917
May-22	315,569	34,662	354	350,585	87,838	8,573	9	96,420	27,023	3,091	2	30,116	22,745	2,156	7	24,908	8,890	985	5	9,879
Jun-22	316,199	34,724	359	351,283	87,489	8,555	9	96,054	26,833	3,083	2	29,918	22,526	2,149	7	24,682	8,822	986	5	9,814
Jul-22	316,259	34,656	365	351,280	87,124	8,545	9	95,678	26,948	3,074	2	30,024	22,650	2,160	7	24,816	8,604	989	5	9,599
Aug-22	316,782	34,862	359	352,003	86,852	8,552	9	95,413	26,815	3,063	2	29,880	22,446	2,149	7	24,602	8,560	993	8	9,561
Sep-22	318,199	35,033	363	353,595	87,175	8,593	9	95,777	26,738	3,058	2	29,797	22,473	2,165	7	24,645	8,535	997	20	9,553
Oct-22	320,928	35,082	358	356,367	88,228	8,571	9	96,808	27,061	3,063	2	30,127	22,867	2,132	7	25,005	8,759	996	20	9,774
Nov-22	322,414	35,350	361	358,125	89,559	8,715	9	98,283	27,612	3,096	2	30,710	23,312	2,158	7	25,477	8,934	996	14	9,944
Dec-22	324,676	35,537	365	360,577	90,927	8,772	9	99,707	27,888	3,102	2	30,992	23,649	2,193	5	25,847	9,049	996	5	10,050
Jan-23	323,884	35,455	355	359,693	89,861	8,732	9	98,603	28,098	3,135	2	31,235	23,479	2,207	5	25,691	9,079	996	2	10,077
Feb-23	324,083	35,704	362	360,150	90,006	8,745	9	98,759	28,192	3,137	2	31,331	23,550	2,226	7	25,783	9,098	996	2	10,096
Mar-23	324,734	35,643	359	360,736	90,308	8,771	9	99,088	28,313	3,143	2	31,458	23,606	2,228	7	25,841	9,080	997	2	10,080
Apr-23	324,525	35,595	359	360,479	90,228	8,713	9	98,950	28,129	3,117	2	31,247	23,527	2,216	7	25,749	9,066	991	2	10,059
May-23	325,160	35,607	359	361,126	90,265	8,720	9	98,994	28,042	3,150	2	31,194	23,339	2,193	7	25,539	9,025	991	5	10,021
Jun-23	325,806	35,671	364	361,840	89,909	8,702	9	98,620	27,846	3,143	2	30,991	23,116	2,186	7	25,308	8,957	993	5	9,954
Jul-23	325,867	35,601	370	361,838	89,536	8,692	9	98,237	27,965	3,133	2	31,101	23,242	2,196	7	25,445	8,736	996	5	9,737
Aug-23	326,402	35,812	364	362,577	89,258	8,699	9	97,966	27,828	3,122	2	30,952	23,035	2,186	7	25,227	8,691	999	8	9,698
Sep-23	327,852	35,986	368	364,206	89,587	8,741	9	98,337	27,748	3,117	2	30,867	23,062	2,202	7	25,271	8,666	1,004	20	9,690
Oct-23	330,644	36,036	362	367,042	90,663	8,718	9	99,390	28,082	3,122	2	31,206	23,463	2,168	7	25,639	8,892	1,002	20	9,914
Nov-23	332,166	36,309	366	368,841	92,023	8,864	9	100,896	28,649	3,155	2	31,807	23,918	2,195	7	26,119	9,070	1,002	14	10,086
Dec-23	334,480	36,500	370	371,350	93,420	8,922	9	102,351	28,934	3,161	2	32,097	24,262	2,230	5	26,496	9,186	1,002	5	10,194
Jan-24	333,446	36,398	357	370,201	92,205	8,884	9	101,098	29,136	3,197	2	32,335	24,058	2,247	5	26,310	9,214	1,002	2	10,219
Feb-24	333,650	36,653	364	370,667	92,352	8,897	9	101,258	29,232	3,199	2	32,433	24,130	2,266	7	26,404	9,234	1,002	2	10,239
Mar-24	334,316	36,590	360	371,266	92,661	8,923	9	101,594	29,357	3,205	2	32,563	24,187	2,268	7	26,462	9,216	1,004	2	10,222
Apr-24	334,102	36,542	360	371,004	92,579	8,865	9	101,453	29,167	3,178	2	32,347	24,106	2,256	7	26,369	9,202	998	2	10,201
May-24	334,752	36,554	360	371,666	92,617	8,872	9	101,498	29,078	3,212	2	32,292	23,915	2,233	7	26,154	9,160	998	5	10,162
Jun-24	335,412	36,619	366	372,396	92,253	8,854	9	101,117	28,876	3,205	2	32,083	23,687	2,226	7	25,920	9,091	999	5	10,095
Jul-24	335,474	36,548	371	372,393	91,873	8,843	9	100,725	28,999	3,195	2	32,196	23,816	2,236	7	26,059	8,868	1,002	5	9,875
Aug-24	336,021	36,762	366	373,149	91,589	8,851	9	100,449	28,857	3,184	2	32,043	23,605	2,226	7	25,837	8,823	1,006	8	9,836
Sep-24	337,505	36,941	369	374,815	91,925	8,893	9	100,828	28,775	3,178	2	31,956	23,633	2,242	7	25,881	8,797	1,010	20	9,828
Oct-24	340,361	36,991	364	377,716	93,023	8,870	9	101,902	29,119	3,184	2	32,305	24,042	2,208	7	26,256	9,026	1,009	20	10,055
Nov-24	341,917	37,270	368	379,555	94,411	9,018	9	103,437	29,703	3,218	2	32,923	24,505	2,235	7	26,746	9,205	1,009	14	10,228
Dec-24	344,285	37,465	371	382,121	95,836	9,076	9	104,921	29,996	3,223	2	33,222	24,855	2,270	5	27,130	9,323	1,009	5	10,337
Jan-25	343,008	37,342	361	380,711	94,512	9,041	9	103,561	30,173	3,263	2	33,438	24,655	2,290	5	26,950	9,350	1,009	2	10,361
Feb-25	343,217	37,602	369	381,187	94,662	9,053	9	103,724	30,272	3,265	2	33,539	24,729	2,310	7	27,046	9,370	1,009	2	10,381
Mar-25	343,898	37,538	365	381,800	94,977	9,080	9	104,066	30,401	3,271	2	33,674	24,786	2,312	7	27,105	9,352	1,010	2	10,364
Apr-25	343,679	37,488	365	381,532	94,893	9,021	9	103,923	30,205	3,244	2	33,452	24,704	2,299	7	27,010	9,337	1,004	2	10,343
May-25	344,343	37,501	365	382,209	94,932	9,028	9	103,969	30,114	3,278	2	33,394	24,509	2,276	7	26,792	9,295	1,004	5	10,304
Jun-25	345,018	37,567	370	382,955	94,561	9,010	9	103,580	29,906	3,271	2	33,179	24,277	2,269	7	26,553	9,225	1,006	5	10,236
Jul-25	345,082	37,494	376	382,952	94,173	8,999	9	103,181	30,032	3,261	2	33,296	24,409	2,279	7	26,695	9,000	1,009	5	10,014
Aug-25	345,641	37,713	370	383,725	93,883	9,006	9	102,899	29,886	3,250	2	33,138	24,193	2,269	7	26,469	8,954	1,012	8	9,974
Sep-25	347,158	37,895	374	385,427	94,227	9,050	9	103,285	29,802	3,244	2	33,048	24,222	2,285	7	26,514	8,928	1,017	20	9,965
Oct-25	350,078	37,947	369	388,393	95,346	9,026	9	104,381	30,156	3,250	2	33,408	24,639	2,251	7	26,896	9,159	1,015	20	10,195

Appendix 2.2 - Customer Forecast - Number by Region
High Growth Case

	WA/ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA/ID Res	WA/ID Com	WA/ID Firm Ind	WA/ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-25	351,668	38,231	372	390,272	96,761	9,176	9	105,945	30,757	3,284	2	34,043	25,111	2,278	7	27,395	9,341	1,015	14	10,370
Dec-25	354,089	38,430	376	392,894	98,214	9,235	9	107,458	31,059	3,290	2	34,351	25,468	2,314	5	27,786	9,460	1,015	5	10,480
Jan-26	352,421	38,285	364	391,071	96,837	9,194	9	106,040	31,244	3,326	2	34,572	25,271	2,330	5	27,606	9,463	1,015	2	10,480
Feb-26	352,634	38,550	372	391,556	96,990	9,207	9	106,205	31,345	3,328	2	34,676	25,346	2,350	7	27,703	9,483	1,015	2	10,501
Mar-26	353,330	38,485	368	392,183	97,311	9,234	9	106,554	31,478	3,334	2	34,814	25,405	2,352	7	27,764	9,465	1,017	2	10,484
Apr-26	353,106	38,434	368	391,909	97,226	9,174	9	106,409	31,277	3,307	2	34,586	25,321	2,339	7	27,667	9,450	1,010	2	10,463
May-26	353,785	38,447	368	392,600	97,265	9,181	9	106,455	31,182	3,342	2	34,526	25,122	2,316	7	27,445	9,408	1,010	5	10,423
Jun-26	354,474	38,515	374	393,363	96,887	9,163	9	106,059	30,969	3,334	2	34,305	24,886	2,308	7	27,201	9,337	1,012	5	10,354
Jul-26	354,540	38,441	379	393,360	96,492	9,152	9	105,652	31,098	3,325	2	34,425	25,020	2,319	7	27,346	9,110	1,015	5	10,130
Aug-26	355,111	38,664	374	394,149	96,196	9,159	9	105,365	30,948	3,313	2	34,263	24,800	2,308	7	27,115	9,064	1,019	8	10,090
Sep-26	356,660	38,849	377	395,887	96,546	9,203	9	105,758	30,862	3,307	2	34,171	24,829	2,325	7	27,161	9,038	1,023	20	10,081
Oct-26	359,643	38,902	372	398,916	97,687	9,179	9	106,875	31,226	3,313	2	34,541	25,254	2,290	7	27,551	9,271	1,022	20	10,313
Nov-26	361,268	39,192	376	400,836	99,130	9,330	9	108,469	31,844	3,348	2	35,194	25,735	2,317	7	28,060	9,454	1,022	14	10,490
Dec-26	363,740	39,395	379	403,514	100,612	9,391	9	110,011	32,155	3,354	2	35,510	26,099	2,354	5	28,458	9,574	1,022	5	10,601
Jan-27	361,685	39,228	369	401,283	99,032	9,351	9	108,392	32,297	3,388	2	35,688	25,887	2,370	5	28,262	9,599	1,022	2	10,622
Feb-27	361,903	39,499	377	401,778	99,188	9,364	9	108,561	32,402	3,390	2	35,795	25,963	2,391	7	28,361	9,619	1,022	2	10,643
Mar-27	362,612	39,432	373	402,418	99,515	9,392	9	108,916	32,538	3,396	2	35,936	26,023	2,392	7	28,422	9,601	1,023	2	10,626
Apr-27	362,384	39,381	373	402,138	99,428	9,331	9	108,768	32,332	3,369	2	35,702	25,938	2,380	7	28,324	9,586	1,017	2	10,605
May-27	363,077	39,394	373	402,844	99,468	9,338	9	108,815	32,235	3,404	2	35,641	25,735	2,355	7	28,098	9,543	1,017	5	10,565
Jun-27	363,781	39,462	378	403,622	99,083	9,320	9	108,412	32,015	3,396	2	35,413	25,494	2,348	7	27,849	9,472	1,019	5	10,495
Jul-27	363,847	39,387	384	403,619	98,680	9,309	9	107,998	32,148	3,386	2	35,537	25,631	2,359	7	27,997	9,242	1,022	5	10,268
Aug-27	364,430	39,615	378	404,424	98,380	9,316	9	107,705	31,994	3,375	2	35,371	25,407	2,348	7	27,762	9,195	1,025	8	10,228
Sep-27	366,012	39,804	382	406,197	98,736	9,360	9	108,105	31,905	3,369	2	35,276	25,437	2,365	7	27,808	9,169	1,030	20	10,219
Oct-27	369,056	39,857	377	409,290	99,897	9,336	9	109,243	32,279	3,375	2	35,656	25,870	2,330	7	28,206	9,404	1,028	20	10,453
Nov-27	370,715	40,153	380	411,248	101,366	9,490	9	110,865	32,915	3,410	2	36,327	26,360	2,357	7	28,724	9,589	1,028	14	10,632
Dec-27	373,238	40,360	384	413,982	102,875	9,551	9	112,434	33,234	3,416	2	36,652	26,731	2,394	5	29,130	9,711	1,028	5	10,744

Appendix 2.2 - Customer Forecast - Number by Region
Low Growth Case

	WA / ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA / ID Res	WA / ID Com	WA / ID Firm Ind	WA / ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-07	191,905	21,468	253	213,625	50,069	6,403	9	56,481	13,071	2,163	2	15,236	13,775	1,602	6	15,382	6,422	882	6	7,310
Dec-07	192,493	21,516	254	214,263	50,307	6,420	9	56,736	13,132	2,167	2	15,300	13,861	1,611	5	15,478	6,454	882	3	7,339
Jan-08	192,668	21,493	253	214,414	50,418	6,428	9	56,856	13,153	2,170	2	15,324	13,888	1,620	5	15,513	6,474	883	2	7,358
Feb-08	192,719	21,556	255	214,530	50,453	6,432	9	56,894	13,173	2,170	2	15,345	13,906	1,625	6	15,537	6,479	883	2	7,364
Mar-08	192,885	21,540	254	214,679	50,502	6,439	9	56,950	13,199	2,172	2	15,372	13,920	1,626	6	15,552	6,474	883	2	7,359
Apr-08	192,831	21,528	254	214,614	50,507	6,423	9	56,939	13,159	2,165	2	15,326	13,900	1,622	6	15,528	6,470	881	2	7,353
May-08	192,993	21,531	254	214,778	50,491	6,425	9	56,925	13,141	2,174	2	15,317	13,853	1,616	6	15,474	6,459	881	3	7,343
Jun-08	193,157	21,548	256	214,960	50,405	6,420	9	56,834	13,099	2,172	2	15,273	13,797	1,614	6	15,416	6,440	882	3	7,324
Jul-08	193,072	21,530	257	214,859	50,315	6,417	9	56,741	13,099	2,169	2	15,271	13,779	1,617	6	15,401	6,379	883	3	7,264
Aug-08	193,208	21,583	256	215,047	50,247	6,419	9	56,675	13,070	2,166	2	15,238	13,727	1,614	6	15,346	6,366	884	4	7,254
Sep-08	193,577	21,627	257	215,461	50,327	6,431	9	56,767	13,053	2,165	2	15,220	13,734	1,618	6	15,358	6,359	885	8	7,252
Oct-08	194,286	21,640	255	216,181	50,513	6,424	9	56,946	13,124	2,166	2	15,292	13,835	1,609	6	15,449	6,422	885	8	7,315
Nov-08	194,673	21,709	256	216,638	50,767	6,466	9	57,242	13,246	2,175	2	15,423	13,949	1,616	6	15,571	6,471	885	6	7,362
Dec-08	195,261	21,758	257	217,276	51,030	6,482	9	57,521	13,306	2,177	2	15,485	14,035	1,626	5	15,667	6,504	885	3	7,391
Jan-09	195,537	21,737	255	217,530	51,066	6,484	9	57,559	13,352	2,192	2	15,547	14,062	1,634	5	15,701	6,524	885	2	7,410
Feb-09	195,588	21,801	257	217,646	51,126	6,487	9	57,623	13,372	2,193	2	15,567	14,080	1,639	6	15,725	6,529	885	2	7,416
Mar-09	195,753	21,785	256	217,795	51,200	6,495	9	57,703	13,398	2,194	2	15,595	14,094	1,640	6	15,740	6,524	885	2	7,411
Apr-09	195,700	21,773	256	217,729	51,230	6,478	9	57,717	13,359	2,187	2	15,548	14,074	1,636	6	15,716	6,520	883	2	7,405
May-09	195,862	21,776	256	217,894	51,239	6,480	9	57,728	13,340	2,196	2	15,539	14,027	1,630	6	15,662	6,509	883	3	7,395
Jun-09	196,026	21,792	258	218,076	51,153	6,475	9	57,637	13,298	2,194	2	15,495	13,971	1,628	6	15,604	6,490	884	3	7,377
Jul-09	196,041	21,775	259	218,075	51,062	6,472	9	57,544	13,324	2,192	2	15,518	13,978	1,631	6	15,614	6,428	885	3	7,316
Aug-09	196,177	21,828	258	218,263	50,995	6,474	9	57,479	13,294	2,189	2	15,485	13,926	1,628	6	15,559	6,416	886	4	7,306
Sep-09	196,546	21,872	259	218,677	51,075	6,486	9	57,570	13,277	2,187	2	15,467	13,933	1,632	6	15,570	6,409	887	8	7,304
Oct-09	197,255	21,885	257	219,397	51,285	6,480	9	57,774	13,349	2,189	2	15,540	14,033	1,623	6	15,662	6,472	887	8	7,367
Nov-09	197,642	21,954	258	219,854	51,564	6,521	9	58,095	13,470	2,198	2	15,670	14,148	1,630	6	15,784	6,521	887	6	7,414
Dec-09	198,230	22,002	259	220,492	51,853	6,538	9	58,399	13,531	2,199	2	15,732	14,234	1,640	5	15,880	6,553	887	3	7,443
Jan-10	198,481	22,007	258	220,746	51,889	6,532	9	58,430	13,602	2,213	2	15,817	14,261	1,647	5	15,913	6,573	887	2	7,462
Feb-10	198,531	22,070	261	220,862	51,949	6,536	9	58,493	13,622	2,214	2	15,838	14,279	1,652	6	15,937	6,579	887	2	7,468
Mar-10	198,697	22,054	259	221,011	52,022	6,543	9	58,574	13,648	2,215	2	15,865	14,293	1,653	6	15,951	6,574	888	2	7,463
Apr-10	198,644	22,042	259	220,945	52,003	6,527	9	58,538	13,608	2,208	2	15,819	14,273	1,649	6	15,928	6,570	886	2	7,457
May-10	198,805	22,045	259	221,110	52,012	6,529	9	58,549	13,590	2,217	2	15,809	14,226	1,643	6	15,874	6,558	886	3	7,447
Jun-10	198,969	22,061	261	221,292	51,925	6,524	9	58,458	13,548	2,215	2	15,765	14,170	1,641	6	15,816	6,539	886	3	7,429
Jul-10	199,035	22,044	263	221,341	51,835	6,521	9	58,365	13,573	2,213	2	15,788	14,202	1,644	6	15,851	6,478	887	3	7,368
Aug-10	199,171	22,097	261	221,529	51,768	6,523	9	58,299	13,544	2,210	2	15,756	14,149	1,641	6	15,796	6,466	888	4	7,358
Sep-10	199,539	22,141	262	221,943	51,848	6,535	9	58,391	13,527	2,208	2	15,737	14,156	1,645	6	15,807	6,459	890	8	7,356
Oct-10	200,249	22,154	261	222,663	52,083	6,528	9	58,620	13,598	2,210	2	15,810	14,257	1,636	6	15,899	6,522	889	8	7,419
Nov-10	200,635	22,223	262	223,120	52,387	6,570	9	58,965	13,720	2,219	2	15,941	14,372	1,643	6	16,020	6,571	889	6	7,466
Dec-10	201,223	22,272	263	223,758	52,700	6,586	9	59,295	13,781	2,220	2	16,003	14,458	1,653	5	16,116	6,603	889	3	7,495
Jan-11	201,475	22,289	262	224,025	52,736	6,575	9	59,321	13,901	2,231	2	16,134	14,510	1,657	5	16,172	6,623	889	2	7,514
Feb-11	201,525	22,352	264	224,141	52,771	6,579	9	59,359	13,921	2,231	2	16,155	14,528	1,662	6	16,196	6,629	889	2	7,520
Mar-11	201,691	22,336	263	224,290	52,844	6,586	9	59,440	13,947	2,233	2	16,182	14,542	1,663	6	16,210	6,624	890	2	7,515
Apr-11	201,638	22,324	263	224,224	52,825	6,570	9	59,404	13,908	2,226	2	16,135	14,522	1,659	6	16,187	6,620	888	2	7,509
May-11	201,799	22,327	263	224,389	52,834	6,572	9	59,415	13,889	2,235	2	16,126	14,475	1,653	6	16,133	6,608	888	3	7,499
Jun-11	201,963	22,343	264	224,571	52,748	6,567	9	59,323	13,847	2,233	2	16,082	14,418	1,651	6	16,075	6,589	888	3	7,480
Jul-11	201,979	22,326	266	224,570	52,658	6,564	9	59,230	13,873	2,230	2	16,105	14,450	1,654	6	16,110	6,528	889	3	7,420
Aug-11	202,114	22,379	264	224,758	52,590	6,566	9	59,165	13,843	2,227	2	16,073	14,398	1,651	6	16,054	6,516	890	4	7,410
Sep-11	202,483	22,423	265	225,172	52,670	6,578	9	59,257	13,826	2,226	2	16,054	14,405	1,655	6	16,066	6,509	892	8	7,408
Oct-11	203,193	22,436	264	225,892	52,930	6,571	9	59,510	13,898	2,227	2	16,127	14,506	1,646	6	16,157	6,571	891	8	7,471
Nov-11	203,579	22,505	265	226,349	53,259	6,613	9	59,881	14,019	2,236	2	16,257	14,620	1,653	6	16,279	6,621	891	6	7,518
Dec-11	204,167	22,553	266	226,987	53,597	6,629	9	60,235	14,080	2,238	2	16,320	14,707	1,663	5	16,375	6,653	891	3	7,547
Jan-12	204,271	22,593	263	227,127	53,691	6,618	9	60,318	14,253	2,249	2	16,504	14,734	1,667	5	16,406	6,676	891	2	7,569
Feb-12	204,323	22,658	265	227,246	53,727	6,622	9	60,358	14,274	2,250	2	16,526	14,752	1,673	6	16,431	6,681	891	2	7,575
Mar-12	204,493	22,642	264	227,399	53,803	6,629	9	60,441	14,301	2,252	2	16,554	14,767	1,673	6	16,446	6,676	892	2	7,570
Apr-12	204,438	22,630	264	227,332	53,783	6,613	9	60,405	14,259	2,244	2	16,506	14,746	1,670	6	16,422	6,672	890	2	7,564
May-12	204,604	22,633	264	227,501	53,792	6,615	9	60,416	14,240	2,254	2	16,496	14,698	1,663	6	16,367	6,661	890	3	7,553
Jun-12	204,772	22,649	266	227,687	53,703	6,610	9	60,322	14,196	2,252	2	16,450	14,640	1,661	6	16,307	6,641	890	3	7,535
Jul-12	204,788	22,631	267	227,687	53,610	6,607	9	60,225	14,223	2,249	2	16,474	14,673	1,664	6	16,342	6,579	891	3	7,473
Aug-12	204,928	22,686	266	227,879	53,540	6,609	9	60,158	14,192	2,246	2	16,440	14,619	1,661	6	16,286	6,567	892	4	7,463
Sep-12	205,306	22,731	267	228,304	53,623	6,621	9	60,252	14,174	2,244	2	16,421	14,626	1,666	6	16,297	6,560	894	8	7,461
Oct-12	206,034	22,744	265	229,043	53,892	6,614	9	60,515	14,249	2,246	2	16,497	14,730	1,656	6	16,392	6,623	893	8	7,524
Nov-12	206,431	22,815	266	229,512	54,232	6,656	9	60,897	14,376	2,255	2	16,633	14,848	1,664	6	16,517	6,673	893	6	7,573
Dec-12	207,034	22,865	267	230,167	54,582	6,673	9	61,263	14,440	2,257	2	16,698	14,937	1,674	5	16,616	6,706	893	3	7,602
Jan-13	206,914	22,898	265	230,076	54,584	6,659	9	61,252	14,588	2,268	2	16,857	14,939	1,678	5	16,622	6,736	893	2	7,631
Feb-13	206,967	22,964	267	230,198	54,621	6,663	9	61,293	14,609	2,268	2	16,880	14,958	1,683	6	16,647	6,742	893	2	7,637
Mar-13	207,141	22,948	266	230,354	54,699	6,670	9	61,379	14,638	2,270	2	16,910	14,973	1,684	6	16,662	6,737	894	2	7,632
Apr-13	207,085	22,935	266	230,286	54,679	6,653	9	61,341	14,595	2,263	2	16,859	14,952	1,680	6	16,638	6,733	891	2	7,626
May-13	207,255	22,938	266	230,459	54,688	6,655	9	61,353	14,574	2,272	2	16,848	14,902	1,673	6	16,581	6,721	891	3	7,615
Jun-13	207,427	22,955	267	230,650	54,596	6,650	9	61,256	14,529	2,270	2	16,800	14,843	1,671	6	16,520	6,701	892	3	7,596
Jul-13	207,443	22,937	269	230,649	54,500	6,647	9	61,156	14,556	2,267	2	16,826	14,876	1,674	6	16,556	6,638	893	3	7,534
Aug-13	207,586	22,993	267	230,846	54,428	6,649	9	61,087	14,524	2,264	2	16,790	14,821	1,671	6	16,498	6,625	894	4	7,523
Sep-13	207,974	23,039	268	231,281	54,513	6,662	9	61,184	14,506	2,263	2	16,770	14,828	1,676	6	16,510	6,618	896	8	7,521
Oct-13	208,719	23,053	267	232,039	54,791	6,655	9	61,455	14,584	2,264	2	16,850	14,935	1,666	6	16,607	6,683	895	8	7,586

Appendix 2.2 - Customer Forecast - Number by Region
Low Growth Case

	WA / ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA / ID Res	WA / ID Com	WA / ID Firm Ind	WA / ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-13	209,126	23,126	268	232,519	55,142	6,697	9	61,848	14,716	2,274	2	16,992	15,056	1,674	6	16,735	6,734	895	6	7,635
Dec-13	209,744	23,176	269	233,189	55,502	6,714	9	62,225	14,783	2,275	2	17,060	15,147	1,684	5	16,836	6,767	895	3	7,665
Jan-14	209,456	23,202	267	232,925	55,452	6,703	9	62,164	14,911	2,287	2	17,201	15,145	1,689	5	16,838	6,789	895	2	7,686
Feb-14	209,511	23,270	269	233,050	55,490	6,707	9	62,206	14,934	2,288	2	17,224	15,164	1,694	6	16,864	6,795	895	2	7,692
Mar-14	209,689	23,254	268	233,210	55,571	6,715	9	62,294	14,964	2,290	2	17,255	15,179	1,695	6	16,880	6,789	896	2	7,687
Apr-14	209,631	23,241	268	233,140	55,550	6,697	9	62,256	14,919	2,282	2	17,203	15,157	1,691	6	16,854	6,785	894	2	7,681
May-14	209,805	23,244	268	233,317	55,559	6,700	9	62,268	14,898	2,292	2	17,191	15,106	1,685	6	16,796	6,773	894	3	7,670
Jun-14	209,981	23,261	270	233,512	55,465	6,694	9	62,168	14,850	2,290	2	17,142	15,045	1,683	6	16,734	6,753	894	3	7,651
Jul-14	209,998	23,242	271	233,511	55,366	6,691	9	62,066	14,879	2,287	2	17,168	15,080	1,686	6	16,771	6,689	895	3	7,587
Aug-14	210,144	23,300	270	233,713	55,292	6,693	9	61,994	14,846	2,284	2	17,131	15,023	1,683	6	16,711	6,676	896	4	7,576
Sep-14	210,540	23,347	271	234,158	55,379	6,706	9	62,094	14,826	2,282	2	17,110	15,031	1,687	6	16,724	6,669	898	8	7,575
Oct-14	211,303	23,361	269	234,933	55,665	6,699	9	62,373	14,907	2,284	2	17,193	15,140	1,677	6	16,823	6,735	897	8	7,640
Nov-14	211,719	23,436	270	235,424	56,026	6,742	9	62,777	15,045	2,293	2	17,341	15,264	1,685	6	16,955	6,786	897	6	7,689
Dec-14	212,351	23,488	271	236,110	56,397	6,759	9	63,165	15,114	2,295	2	17,411	15,358	1,695	5	17,058	6,820	897	3	7,720
Jan-15	211,950	23,507	269	235,725	56,339	6,753	9	63,101	15,252	2,311	2	17,565	15,350	1,702	5	17,057	6,857	897	2	7,756
Feb-15	212,005	23,577	271	235,853	56,378	6,756	9	63,144	15,275	2,311	2	17,589	15,370	1,708	6	17,083	6,863	897	2	7,762
Mar-15	212,187	23,559	270	236,016	56,461	6,764	9	63,234	15,306	2,313	2	17,621	15,385	1,708	6	17,099	6,857	898	2	7,757
Apr-15	212,129	23,546	270	235,945	56,439	6,747	9	63,195	15,259	2,305	2	17,567	15,363	1,705	6	17,073	6,853	896	2	7,751
May-15	212,306	23,549	270	236,125	56,449	6,749	9	63,207	15,238	2,315	2	17,555	15,311	1,698	6	17,014	6,841	896	3	7,740
Jun-15	212,486	23,567	272	236,325	56,352	6,744	9	63,105	15,188	2,313	2	17,503	15,248	1,696	6	16,950	6,821	896	3	7,720
Jul-15	212,503	23,548	273	236,324	56,250	6,741	9	62,999	15,218	2,310	2	17,530	15,284	1,699	6	16,988	6,755	897	3	7,656
Aug-15	212,652	23,607	272	236,531	56,174	6,743	9	62,926	15,183	2,307	2	17,492	15,226	1,696	6	16,927	6,742	899	4	7,644
Sep-15	213,057	23,655	273	236,985	56,264	6,755	9	63,028	15,163	2,305	2	17,471	15,233	1,701	6	16,939	6,734	900	8	7,642
Oct-15	213,836	23,669	271	237,777	56,558	6,749	9	63,315	15,248	2,307	2	17,557	15,345	1,691	6	17,042	6,801	900	8	7,709
Nov-15	214,261	23,746	272	238,279	56,930	6,792	9	63,731	15,391	2,317	2	17,710	15,472	1,698	6	17,176	6,854	900	6	7,760
Dec-15	214,907	23,799	273	238,980	57,311	6,809	9	64,130	15,463	2,318	2	17,784	15,568	1,709	5	17,282	6,889	900	3	7,791
Jan-16	214,492	23,811	271	238,574	57,250	6,808	9	64,067	15,603	2,336	2	17,941	15,555	1,718	5	17,278	6,925	900	2	7,827
Feb-16	214,549	23,883	273	238,705	57,291	6,811	9	64,111	15,628	2,337	2	17,966	15,575	1,723	6	17,304	6,930	900	2	7,833
Mar-16	214,735	23,865	272	238,872	57,376	6,819	9	64,205	15,660	2,338	2	18,000	15,591	1,724	6	17,321	6,925	901	2	7,828
Apr-16	214,675	23,852	272	238,799	57,353	6,802	9	64,164	15,611	2,331	2	17,944	15,569	1,720	6	17,294	6,921	899	2	7,821
May-16	214,856	23,855	272	238,983	57,364	6,804	9	64,177	15,588	2,341	2	17,931	15,515	1,713	6	17,234	6,908	899	3	7,810
Jun-16	215,040	23,873	274	239,187	57,264	6,799	9	64,071	15,537	2,338	2	17,877	15,451	1,711	6	17,168	6,888	899	3	7,790
Jul-16	215,058	23,853	275	239,186	57,159	6,795	9	63,963	15,568	2,336	2	17,906	15,487	1,714	6	17,207	6,821	900	3	7,724
Aug-16	215,210	23,913	274	239,397	57,080	6,798	9	63,887	15,532	2,332	2	17,866	15,428	1,711	6	17,145	6,808	901	4	7,713
Sep-16	215,624	23,963	275	239,862	57,173	6,810	9	63,993	15,511	2,331	2	17,844	15,436	1,716	6	17,157	6,800	903	8	7,711
Oct-16	216,420	23,978	273	240,671	57,476	6,803	9	64,288	15,599	2,332	2	17,933	15,551	1,706	6	17,262	6,868	902	8	7,778
Nov-16	216,854	24,056	274	241,184	57,858	6,848	9	64,715	15,748	2,342	2	18,092	15,681	1,714	6	17,400	6,922	902	6	7,830
Dec-16	217,514	24,111	275	241,900	58,251	6,865	9	65,125	15,823	2,344	2	18,169	15,779	1,724	5	17,508	6,957	902	3	7,862
Jan-17	217,082	24,115	272	241,470	58,156	6,861	9	65,026	15,960	2,360	2	18,322	15,767	1,732	5	17,504	6,985	903	2	7,890
Feb-17	217,141	24,188	274	241,603	58,197	6,865	9	65,071	15,985	2,361	2	18,348	15,787	1,738	6	17,531	6,991	903	2	7,896
Mar-17	217,330	24,170	273	241,774	58,285	6,873	9	65,167	16,019	2,362	2	18,383	15,804	1,738	6	17,548	6,985	903	2	7,891
Apr-17	217,269	24,157	273	241,699	58,262	6,855	9	65,126	15,968	2,355	2	18,325	15,780	1,735	6	17,521	6,981	901	2	7,884
May-17	217,454	24,160	273	241,888	58,272	6,858	9	65,139	15,945	2,365	2	18,311	15,725	1,728	6	17,459	6,968	901	3	7,872
Jun-17	217,642	24,179	275	242,096	58,169	6,852	9	65,030	15,891	2,362	2	18,255	15,660	1,725	6	17,391	6,947	902	3	7,852
Jul-17	217,660	24,158	277	242,095	58,061	6,849	9	64,919	15,923	2,360	2	18,285	15,697	1,729	6	17,431	6,880	903	3	7,785
Aug-17	217,816	24,220	275	242,311	57,981	6,851	9	64,841	15,886	2,356	2	18,244	15,636	1,725	6	17,367	6,866	904	4	7,774
Sep-17	218,239	24,271	276	242,786	58,076	6,864	9	64,949	15,864	2,355	2	18,221	15,644	1,730	6	17,380	6,858	905	8	7,772
Oct-17	219,052	24,286	274	243,612	58,387	6,857	9	65,253	15,955	2,356	2	18,314	15,762	1,720	6	17,488	6,928	905	8	7,840
Nov-17	219,496	24,366	275	244,137	58,780	6,902	9	65,691	16,110	2,366	2	18,479	15,895	1,728	6	17,629	6,982	905	6	7,893
Dec-17	220,170	24,422	277	244,868	59,184	6,920	9	66,113	16,188	2,368	2	18,558	15,996	1,739	5	17,740	7,018	905	3	7,926
Jan-18	219,772	24,417	274	244,463	59,024	6,911	9	65,944	16,306	2,381	2	18,689	15,972	1,745	5	17,722	7,045	905	2	7,952
Feb-18	219,831	24,492	276	244,599	59,066	6,915	9	65,991	16,332	2,382	2	18,716	15,993	1,751	6	17,750	7,051	905	2	7,958
Mar-18	220,025	24,474	275	244,774	59,156	6,923	9	66,089	16,366	2,384	2	18,752	16,010	1,751	6	17,767	7,046	905	2	7,953
Apr-18	219,963	24,459	275	244,697	59,132	6,905	9	66,047	16,314	2,376	2	18,692	15,986	1,748	6	17,739	7,041	903	2	7,947
May-18	220,152	24,463	275	244,890	59,143	6,907	9	66,060	16,290	2,386	2	18,678	15,930	1,740	6	17,676	7,028	903	3	7,935
Jun-18	220,344	24,482	276	245,103	59,038	6,902	9	65,949	16,234	2,384	2	18,620	15,863	1,738	6	17,607	7,007	904	3	7,914
Jul-18	220,362	24,461	278	245,102	58,927	6,899	9	65,835	16,268	2,381	2	18,651	15,901	1,741	6	17,648	6,938	905	3	7,846
Aug-18	220,522	24,524	276	245,322	58,845	6,901	9	65,754	16,229	2,377	2	18,608	15,838	1,738	6	17,582	6,924	906	4	7,834
Sep-18	220,954	24,577	278	245,808	58,942	6,914	9	65,865	16,206	2,376	2	18,584	15,847	1,743	6	17,596	6,916	907	8	7,832
Oct-18	221,785	24,591	276	246,652	59,261	6,907	9	66,177	16,301	2,377	2	18,680	15,967	1,733	6	17,705	6,987	907	8	7,902
Nov-18	222,238	24,673	277	247,189	59,665	6,952	9	66,626	16,462	2,388	2	18,851	16,103	1,741	6	17,850	7,042	907	6	7,955
Dec-18	222,927	24,730	278	247,936	60,079	6,971	9	67,059	16,542	2,389	2	18,934	16,206	1,752	5	17,963	7,079	907	3	7,989
Jan-19	222,512	24,719	276	247,507	59,898	6,960	9	66,867	16,651	2,402	2	19,055	16,171	1,758	5	17,933	7,098	907	2	8,007
Feb-19	222,572	24,796	278	247,646	59,942	6,964	9	66,915	16,679	2,402	2	19,083	16,193	1,764	6	17,962	7,104	907	2	8,013
Mar-19	222,770	24,777	277	247,824	60,034	6,973	9	67,016	16,714	2,404	2	19,121	16,210	1,764	6	17,980	7,098	908	2	8,008
Apr-19	222,707	24,762	277	247,746	60,009	6,954	9	66,973	16,660	2,396	2	19,058	16,185	1,760	6	17,951	7,094	905	2	8,001
May-19	222,900	24,766	277	247,943	60,021	6,957	9	66,986	16,635	2,407	2	19,044	16,128	1,753	6	17,887	7,081	905	3	7,989
Jun-19	223,096	24,786	279	248,161	59,912	6,951	9	66,872	16,578	2,404	2	18,984	16,059	1,751	6	17,816	7,059	906	3	7,968
Jul-19	223,115	24,764	280	248,160	59,799	6,948	9	66,756	16,612	2,401	2	19,016	16,098	1,754	6	17,858	6,990	907	3	7,900
Aug-19	223,278	24,829	279	248,385	59,714	6,950	9	66,673	16,572	2,398	2	18,972	16,035	1,751	6	17,791	6,975	908	4	7,887
Sep-19	223,719	24,882	280	248,881	59,815	6,963	9	66,787	16,549	2,396	2	18,947	16,043	1,756	6	17,805	6,967	910	8	7,885
Oct-19	224,569	24,897	278	249,744	60,142	6,956	9	67,107	16,647	2,398	2	19,046	16,166	1,745	6	17,917	7,039	909	8	7,956

Appendix 2.2 - Customer Forecast - Number by Region
Low Growth Case

	WA / ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA / ID Res	WA / ID Com	WA / ID Firm Ind	WA / ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-19	225,032	24,981	279	250,292	60,556	7,002	9	67,567	16,813	2,408	2	19,223	16,305	1,754	6	18,065	7,095	909	6	8,010
Dec-19	225,736	25,039	280	251,056	60,981	7,021	9	68,010	16,897	2,410	2	19,309	16,411	1,765	5	18,181	7,132	909	3	8,044
Jan-20	225,400	25,033	276	250,709	60,766	7,012	9	67,787	17,003	2,423	2	19,428	16,376	1,771	5	18,152	7,158	909	2	8,069
Feb-20	225,462	25,112	279	250,852	60,811	7,016	9	67,836	17,031	2,424	2	19,457	16,398	1,777	6	18,181	7,164	909	2	8,076
Mar-20	225,665	25,092	277	251,034	60,905	7,025	9	67,939	17,068	2,426	2	19,496	16,416	1,778	6	18,199	7,159	910	2	8,070
Apr-20	225,600	25,077	277	250,954	60,880	7,006	9	67,895	17,012	2,418	2	19,432	16,391	1,774	6	18,170	7,154	908	2	8,064
May-20	225,797	25,081	277	251,156	60,892	7,008	9	67,909	16,986	2,428	2	19,416	16,332	1,766	6	18,104	7,141	908	3	8,051
Jun-20	225,998	25,101	279	251,378	60,781	7,003	9	67,792	16,926	2,426	2	19,354	16,262	1,764	6	18,032	7,119	908	3	8,030
Jul-20	226,017	25,079	281	251,377	60,664	6,999	9	67,673	16,962	2,423	2	19,387	16,302	1,768	6	18,075	7,048	909	3	7,960
Aug-20	226,184	25,145	279	251,608	60,578	7,002	9	67,588	16,921	2,419	2	19,342	16,237	1,764	6	18,007	7,034	910	4	7,948
Sep-20	226,635	25,200	280	252,115	60,681	7,015	9	67,705	16,897	2,418	2	19,316	16,246	1,769	6	18,020	7,026	912	8	7,946
Oct-20	227,504	25,215	279	252,998	61,016	7,008	9	68,033	16,998	2,419	2	19,419	16,371	1,759	6	18,135	7,098	911	8	8,018
Nov-20	227,977	25,301	280	253,558	61,440	7,055	9	68,504	17,170	2,430	2	19,602	16,514	1,767	6	18,286	7,155	911	6	8,073
Dec-20	228,698	25,360	281	254,339	61,876	7,073	9	68,958	17,256	2,432	2	19,690	16,621	1,778	5	18,405	7,193	911	3	8,107
Jan-21	228,388	25,348	278	254,014	61,609	7,057	9	68,676	17,349	2,440	2	19,791	16,581	1,781	5	18,368	7,211	911	2	8,124
Feb-21	228,452	25,428	280	254,160	61,655	7,061	9	68,726	17,378	2,441	2	19,821	16,604	1,787	6	18,397	7,217	911	2	8,130
Mar-21	228,659	25,409	279	254,347	61,752	7,070	9	68,831	17,416	2,443	2	19,861	16,622	1,788	6	18,415	7,212	912	2	8,125
Apr-21	228,592	25,393	279	254,265	61,726	7,051	9	68,786	17,358	2,434	2	19,794	16,597	1,784	6	18,386	7,207	910	2	8,118
May-21	228,795	25,397	279	254,471	61,738	7,053	9	68,801	17,331	2,445	2	19,778	16,537	1,777	6	18,319	7,193	910	3	8,106
Jun-21	229,000	25,417	281	254,698	61,624	7,048	9	68,681	17,270	2,443	2	19,714	16,465	1,774	6	18,245	7,171	910	3	8,084
Jul-21	229,020	25,395	282	254,697	61,505	7,044	9	68,559	17,307	2,440	2	19,749	16,506	1,778	6	18,289	7,099	911	3	8,014
Aug-21	229,190	25,462	281	254,933	61,417	7,047	9	68,472	17,264	2,436	2	19,702	16,439	1,774	6	18,219	7,085	912	4	8,001
Sep-21	229,652	25,518	282	255,452	61,522	7,060	9	68,591	17,239	2,434	2	19,675	16,448	1,779	6	18,233	7,077	914	8	7,999
Oct-21	230,541	25,534	280	256,355	61,865	7,053	9	68,927	17,343	2,436	2	19,782	16,576	1,769	6	18,351	7,150	913	8	8,072
Nov-21	231,025	25,622	281	256,928	62,299	7,100	9	69,408	17,521	2,447	2	19,970	16,722	1,777	6	18,505	7,208	913	6	8,127
Dec-21	231,762	25,683	282	257,727	62,745	7,119	9	69,873	17,611	2,449	2	20,061	16,832	1,788	5	18,625	7,246	913	3	8,162
Jan-22	231,476	25,663	279	257,417	62,428	7,106	9	69,542	17,694	2,460	2	20,156	16,787	1,793	5	18,585	7,264	913	2	8,179
Feb-22	231,541	25,744	281	257,566	62,475	7,110	9	69,593	17,725	2,461	2	20,187	16,810	1,800	6	18,615	7,270	913	2	8,185
Mar-22	231,753	25,724	280	257,757	62,574	7,118	9	69,701	17,764	2,462	2	20,228	16,828	1,800	6	18,634	7,264	914	2	8,180
Apr-22	231,685	25,709	280	257,673	62,547	7,099	9	69,656	17,704	2,454	2	20,160	16,802	1,796	6	18,604	7,260	912	2	8,173
May-22	231,892	25,713	280	257,884	62,559	7,102	9	69,670	17,676	2,465	2	20,143	16,741	1,789	6	18,535	7,246	912	3	8,160
Jun-22	232,102	25,733	282	258,117	62,443	7,096	9	69,548	17,613	2,462	2	20,077	16,668	1,786	6	18,460	7,223	912	3	8,139
Jul-22	232,122	25,711	284	258,116	62,321	7,092	9	69,423	17,651	2,459	2	20,113	16,709	1,790	6	18,505	7,151	913	3	8,067
Aug-22	232,296	25,779	282	258,357	62,231	7,095	9	69,334	17,607	2,456	2	20,065	16,641	1,786	6	18,433	7,136	914	4	8,054
Sep-22	232,768	25,836	283	258,888	62,338	7,108	9	69,456	17,581	2,454	2	20,037	16,650	1,792	6	18,448	7,128	916	8	8,052
Oct-22	233,678	25,853	281	259,812	62,689	7,101	9	69,799	17,689	2,456	2	20,147	16,782	1,781	6	18,568	7,202	915	8	8,125
Nov-22	234,173	25,942	282	260,398	63,133	7,149	9	70,291	17,873	2,467	2	20,341	16,930	1,789	6	18,725	7,261	915	6	8,182
Dec-22	234,927	26,004	284	261,215	63,589	7,168	9	70,766	17,965	2,469	2	20,435	17,042	1,801	5	18,848	7,299	915	3	8,217
Jan-23	234,663	25,977	280	260,920	63,234	7,155	9	70,398	18,035	2,480	2	20,516	16,986	1,806	5	18,796	7,309	915	2	8,226
Feb-23	234,730	26,060	283	261,073	63,282	7,159	9	70,450	18,066	2,480	2	20,548	17,009	1,812	6	18,827	7,315	915	2	8,233
Mar-23	234,947	26,040	282	261,268	63,383	7,168	9	70,559	18,106	2,482	2	20,591	17,028	1,813	6	18,846	7,309	916	2	8,227
Apr-23	234,877	26,024	282	261,182	63,356	7,148	9	70,513	18,045	2,474	2	20,520	17,002	1,809	6	18,816	7,305	914	2	8,220
May-23	235,089	26,028	282	261,398	63,368	7,151	9	70,528	18,016	2,485	2	20,503	16,939	1,801	6	18,746	7,291	914	3	8,208
Jun-23	235,304	26,049	283	261,636	63,250	7,145	9	70,403	17,951	2,482	2	20,435	16,865	1,799	6	18,669	7,268	914	3	8,185
Jul-23	235,324	26,026	285	261,635	63,125	7,141	9	70,276	17,990	2,479	2	20,472	16,907	1,802	6	18,714	7,195	915	3	8,113
Aug-23	235,503	26,096	283	261,882	63,033	7,144	9	70,185	17,945	2,475	2	20,422	16,838	1,799	6	18,642	7,180	916	4	8,100
Sep-23	235,986	26,154	285	262,425	63,142	7,158	9	70,309	17,918	2,474	2	20,394	16,847	1,804	6	18,656	7,171	918	8	8,097
Oct-23	236,917	26,171	283	263,370	63,501	7,150	9	70,660	18,029	2,475	2	20,507	16,980	1,793	6	18,779	7,247	917	8	8,172
Nov-23	237,424	26,262	284	263,970	63,954	7,199	9	71,162	18,218	2,486	2	20,707	17,132	1,802	6	18,939	7,306	917	6	8,229
Dec-23	238,195	26,325	285	264,806	64,420	7,218	9	71,647	18,313	2,488	2	20,804	17,247	1,813	5	19,065	7,345	917	3	8,265
Jan-24	237,851	26,291	281	264,423	64,015	7,205	9	71,229	18,381	2,500	2	20,883	17,179	1,819	5	19,003	7,354	917	2	8,274
Feb-24	237,919	26,376	283	264,578	64,064	7,210	9	71,283	18,413	2,501	2	20,916	17,203	1,825	6	19,034	7,361	917	2	8,280
Mar-24	238,141	26,355	282	264,778	64,167	7,218	9	71,395	18,454	2,503	2	20,959	17,222	1,826	6	19,053	7,355	918	2	8,275
Apr-24	238,069	26,339	282	264,691	64,140	7,199	9	71,348	18,391	2,494	2	20,887	17,195	1,822	6	19,022	7,350	916	2	8,268
May-24	238,286	26,343	282	264,911	64,152	7,201	9	71,363	18,361	2,505	2	20,869	17,131	1,814	6	18,951	7,336	916	3	8,255
Jun-24	238,506	26,365	284	265,155	64,031	7,195	9	71,236	18,294	2,503	2	20,799	17,055	1,812	6	18,873	7,313	916	3	8,232
Jul-24	238,527	26,341	286	265,154	63,904	7,192	9	71,105	18,335	2,500	2	20,837	17,098	1,815	6	18,919	7,239	917	3	8,159
Aug-24	238,709	26,413	284	265,406	63,810	7,194	9	71,013	18,288	2,496	2	20,786	17,028	1,812	6	18,845	7,224	919	4	8,146
Sep-24	239,204	26,472	285	265,961	63,922	7,208	9	71,139	18,260	2,494	2	20,757	17,037	1,817	6	18,860	7,215	920	8	8,143
Oct-24	240,156	26,489	283	266,928	64,288	7,201	9	71,497	18,375	2,496	2	20,873	17,173	1,806	6	18,985	7,291	920	8	8,219
Nov-24	240,674	26,582	285	267,541	64,750	7,250	9	72,009	18,570	2,507	2	21,079	17,328	1,815	6	19,148	7,351	920	6	8,277
Dec-24	241,464	26,647	286	268,396	65,225	7,269	9	72,504	18,667	2,509	2	21,179	17,444	1,827	5	19,276	7,390	920	3	8,313
Jan-25	241,038	26,606	282	267,926	64,784	7,258	9	72,050	18,726	2,522	2	21,251	17,378	1,833	5	19,216	7,399	920	2	8,321
Feb-25	241,108	26,693	285	268,085	64,834	7,262	9	72,105	18,759	2,523	2	21,284	17,402	1,840	6	19,248	7,406	920	2	8,328
Mar-25	241,335	26,671	284	268,289	64,939	7,271	9	72,219	18,802	2,525	2	21,329	17,421	1,841	6	19,268	7,400	920	2	8,322
Apr-25	241,262	26,655	284	268,200	64,911	7,251	9	72,171	18,737	2,516	2	21,255	17,394	1,836	6	19,236	7,395	918	2	8,315
May-25	241,483	26,659	284	268,426	64,924	7,253	9	72,186	18,707	2,527	2	21,236	17,329	1,829	6	19,163	7,381	918	3	8,302
Jun-25	241,708	26,681	285	268,674	64,800	7,247	9	72,057	18,637	2,525	2	21,164	17,252	1,826	6	19,084	7,358	919	3	8,279
Jul-25	241,729	26,657	287	268,673	64,671	7,244	9	71,924	18,679	2,522	2	21,203	17,296	1,830	6	19,131	7,283	920	3	8,205
Aug-25	241,916	26,730	285	268,931	64,574	7,246	9	71,830	18,631	2,518	2	21,151	17,224	1,826	6	19,056	7,267	921	4	8,192
Sep-25	242,421	26,790	287	269,498	64,689	7,261	9	71,958	18,603	2,516	2	21,121	17,233	1,832	6	19,071	7,259	922	8	8,189
Oct-25	243,395	26,808	285	270,487	65,062	7,253	9	72,324	18,721	2,518	2	21,241	17,372	1,820	6	19,198	7,336	922	8	8,266

Appendix 2.2 - Customer Forecast - Number by Region
Low Growth Case

	WA / ID				Medford				Roseburg				Klamath Falls				La Grande			
	WA / ID Res	WA / ID Com	WA / ID Firm Ind	WA / ID Total	MFR Res	MFR Com	MFR Firm Ind	MFR Total	ROS Res	ROS Com	ROS Firm Ind	ROS Total	KLA Res	KLA Com	KLA Firm Ind	KLA Total	LGD Res	LGD Com	LGD Firm Ind	LGD Total
Nov-25	243,925	26,902	286	271,113	65,534	7,303	9	72,845	18,921	2,529	2	21,452	17,530	1,829	6	19,364	7,396	922	6	8,324
Dec-25	244,732	26,969	287	271,987	66,018	7,322	9	73,349	19,022	2,531	2	21,555	17,649	1,841	5	19,495	7,436	922	3	8,361
Jan-26	244,176	26,920	283	271,380	65,559	7,309	9	72,877	19,083	2,543	2	21,629	17,583	1,847	5	19,435	7,437	922	2	8,361
Feb-26	244,247	27,009	286	271,541	65,610	7,313	9	72,932	19,117	2,544	2	21,663	17,608	1,853	6	19,467	7,444	922	2	8,368
Mar-26	244,479	26,987	285	271,750	65,717	7,322	9	73,048	19,161	2,546	2	21,709	17,628	1,854	6	19,487	7,438	922	2	8,362
Apr-26	244,404	26,970	285	271,659	65,689	7,302	9	73,000	19,094	2,537	2	21,633	17,600	1,850	6	19,455	7,433	920	2	8,355
May-26	244,630	26,974	285	271,889	65,702	7,304	9	73,015	19,063	2,549	2	21,613	17,533	1,842	6	19,381	7,419	920	3	8,342
Jun-26	244,860	26,997	287	272,144	65,576	7,298	9	72,883	18,992	2,546	2	21,540	17,455	1,839	6	19,300	7,395	921	3	8,319
Jul-26	244,882	26,972	288	272,143	65,444	7,295	9	72,747	19,035	2,543	2	21,580	17,499	1,843	6	19,348	7,319	922	3	8,244
Aug-26	245,072	27,047	287	272,406	65,345	7,297	9	72,652	18,985	2,539	2	21,526	17,426	1,839	6	19,271	7,304	923	4	8,231
Sep-26	245,589	27,108	288	272,985	65,462	7,312	9	72,783	18,956	2,537	2	21,495	17,436	1,845	6	19,286	7,295	924	8	8,228
Oct-26	246,583	27,126	286	273,995	65,842	7,304	9	73,155	19,077	2,539	2	21,618	17,577	1,833	6	19,416	7,373	924	8	8,305
Nov-26	247,125	27,223	287	274,635	66,323	7,354	9	73,686	19,283	2,551	2	21,836	17,738	1,842	6	19,586	7,434	924	6	8,364
Dec-26	247,949	27,290	288	275,527	66,817	7,374	9	74,200	19,387	2,553	2	21,941	17,859	1,855	5	19,719	7,474	924	3	8,401
Jan-27	247,264	27,235	285	274,784	66,291	7,361	9	73,661	19,434	2,564	2	22,001	17,788	1,860	5	19,653	7,482	924	2	8,408
Feb-27	247,336	27,325	288	274,949	66,343	7,365	9	73,717	19,469	2,565	2	22,036	17,814	1,867	6	19,686	7,489	924	2	8,415
Mar-27	247,573	27,303	286	275,162	66,452	7,375	9	73,835	19,515	2,567	2	22,083	17,834	1,867	6	19,707	7,483	924	2	8,409
Apr-27	247,497	27,286	286	275,069	66,423	7,354	9	73,786	19,446	2,558	2	22,005	17,805	1,863	6	19,674	7,478	922	2	8,402
May-27	247,728	27,290	286	275,304	66,436	7,357	9	73,802	19,414	2,569	2	21,985	17,738	1,855	6	19,599	7,464	922	3	8,389
Jun-27	247,962	27,313	288	275,563	66,308	7,351	9	73,667	19,340	2,567	2	21,909	17,657	1,853	6	19,516	7,440	923	3	8,366
Jul-27	247,984	27,288	290	275,562	66,173	7,347	9	73,529	19,385	2,563	2	21,950	17,703	1,856	6	19,565	7,363	924	3	8,290
Aug-27	248,179	27,364	288	275,831	66,073	7,349	9	73,432	19,333	2,560	2	21,895	17,628	1,853	6	19,487	7,348	925	4	8,277
Sep-27	248,706	27,427	289	276,422	66,192	7,364	9	73,565	19,304	2,558	2	21,863	17,638	1,858	6	19,502	7,339	927	8	8,274
Oct-27	249,721	27,444	288	277,453	66,579	7,356	9	73,944	19,428	2,560	2	21,990	17,783	1,847	6	19,635	7,417	926	8	8,352
Nov-27	250,274	27,543	289	278,105	67,069	7,407	9	74,485	19,640	2,571	2	22,214	17,946	1,856	6	19,807	7,479	926	6	8,411
Dec-27	251,115	27,612	290	279,017	67,572	7,428	9	75,008	19,747	2,573	2	22,322	18,070	1,868	5	19,943	7,520	926	3	8,449

Demand Coefficients

Appendix 2.3

Regression--Residential WA & ID

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.0301	0.0023	12.9224	2.68657E-30
	NHDDD	0.0094	0.0001	63.6034	7.2305E-169
	NQDDD	0.0019	0.0001	14.9808	1.07403E-37

a Dependent Variable: RNDT

Regression--Residential WA & ID		Calibration Correction (%)	Final
Base	**0.0301**	1.6196	**0.0488**
Shoulder	**0.0094**	0.6304	**0.0059**
Dec-Jan-Feb	**0.0112**	0.9259	**0.0104**
Nov & Mar	**0.0094**	0.9702	**0.0091**

Regression--Commercial WA & ID

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.2134	0.0113	18.8746	6.91553E-52
	NHDDD	0.0472	0.0007	65.9534	5.1129E-173
	NQDDD	0.0115	0.0006	19.0984	1.06953E-52

a Dependent Variable: CNDT

Regression--Commercial WA & ID		Calibration Correction (%)	Final
Base	**0.2134**	1.6196	**0.3456**
Shoulder	**0.0472**	0.6304	**0.0297**
Dec-Jan-Feb	**0.0587**	0.9259	**0.0543**
Nov & Mar	**0.0472**	0.9702	**0.0458**

Regression--Firm Industrial WA & ID

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	4.3748	0.080897048	54.07863783	1.4517E-150
	NHDDD	0.1164	0.005117407	22.75515098	1.0506E-65
	NQDDD	0.0452	0.004309456	10.4915236	6.02302E-22

a Dependent Variable: INDT

Regression--Firm Industrial WA & ID		Calibration Correction (%)	Final
Base	**4.3748**	1.6196	**7.0854**
Shoulder	**0.1164**	0.6304	**0.0734**
Dec-Jan-Feb	**0.1617**	0.9259	**0.1497**
Nov & Mar	**0.1164**	0.9702	**0.1130**

Regression--Residential Medford

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.0376	0.0015	25.6122	1.85684E-75
	MHDDD	0.0095	0.0001	67.2378	3.1236E-175
	MQDDD	0.0017	0.0001	13.5006	2.35291E-32

a Dependent Variable: RMDT

Regression--Residential Medford		Calibration Correction (%)	Final
Base	**0.0376**	1.1754	**0.0442**
Shoulder	**0.0095**	0.7691	**0.0073**
Dec-Jan-Feb	**0.0112**	1.0440	**0.0117**
Nov & Mar	**0.0095**	1.0680	**0.0101**

Regression--Commercial Medford

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.2903	0.0155	18.7306	2.30114E-51
	MHDDD	0.0452	0.0015	30.4767	4.51413E-91
	MQDDD	0.0002	0.0013	0.1656	0.868594306

a Dependent Variable: CMDT

Regression--Commercial Medford		Calibration Correction (%)	Final
Base	**0.2903**	1.1754	**0.3412**
Shoulder	**0.0452**	0.7691	**0.0348**
Dec-Jan-Feb	**0.0455**	1.0440	**0.0475**
Nov & Mar	**0.0452**	1.0680	**0.0483**

Regression--Firm Industrial Medford

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.029406813	0.028566584	1.029412998	0.304170887
	MHDDD	0.075782114	0.002736531	27.69276501	2.71243E-82
	MQDDD	0.001501534	0.002462884	0.609664908	0.54257646

a Dependent Variable: CMDT

Regression--Firm Industrial Medford		Calibration Correction (%)	Final
Base	**0.0294**	1.1754	**0.0346**
Shoulder	**0.0758**	0.7691	**0.0583**
Dec-Jan-Feb	**0.0773**	1.0440	**0.0807**
Nov & Mar	**0.0758**	1.0680	**0.0809**

Regression--Residential Roseburg

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.0359	0.0012	28.9895	1.958E-86
	RHDDD	0.0106	0.0001	79.6055	8.2663E-195
	RQDDD	0.0013	0.0001	10.7946	5.92577E-23

a Dependent Variable: RRDT

Regression--Residential Roseburg		Calibration Correction (%)	Final
Base	**0.0359**	1.2964	**0.0465**
Shoulder	**0.0106**	0.7245	**0.0077**
Dec-Jan-Feb	**0.0119**	0.9789	**0.0117**
Nov & Mar	**0.0106**	0.9349	**0.0099**

Regression--Commercial Roseburg

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.2805	0.0163	17.2281	6.81002E-46
	RHDDD	0.0534	0.0018	30.3715	9.5193E-91
	RQDDD	-0.0011	0.0016	-0.6839	0.494595161

a Dependent Variable: CRDT

Regression--Commercial Roseburg		Calibration Correction (%)	Final
Base	**0.2805**	1.2964	**0.3637**
Shoulder	**0.0534**	0.7245	**0.0387**
Dec-Jan-Feb	**0.0523**	0.9789	**0.0512**
Nov & Mar	**0.0534**	0.9349	**0.0499**

Regression--Firm Industrial Roseburg

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	11.9581	0.1814	65.9241	5.7476E-173
	RHDDD	0.6041	0.0196	30.8542	3.13865E-92
	RQDDD	-0.1701	0.0177	-9.6239	3.91227E-19

a Dependent Variable: IRDT

Regression--Firm Industrial Roseburg		Calibration Correction (%)	Final
Base	**11.9581**	1.2964	**15.5025**
Shoulder	**0.6041**	0.7245	**0.4377**
Dec-Jan-Feb	**0.4340**	0.9789	**0.4249**
Nov & Mar	**0.6041**	0.9349	**0.5648**

Regression--Residential Klamath Falls

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.0137	0.0031	4.4168	1.43108E-05
	KHDDD	0.0079	0.0002	41.3221	2.0409E-121
	KQDDD	0.0020	0.0002	13.1000	6.29945E-31

a Dependent Variable: RKDT

Regression--Residential Klamath Falls		Calibration Correction (%)	Final
Base	**0.0137**	2.3155	**0.0318**
Shoulder	**0.0079**	0.5186	**0.0041**
Dec-Jan-Feb	**0.0099**	0.8426	**0.0084**
Nov & Mar	**0.0079**	0.8476	**0.0067**

Regression--Commercial Klamath Falls

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.1506	0.0266	5.6723	3.49963E-08
	KHDDD	0.0419	0.0016	25.6776	1.12342E-75
	KQDDD	0.0023	0.0013	1.7302	0.08469882

a Dependent Variable: CKDT

Regression--Commercial Klamath Falls		Calibration Correction (%)	Final
Base	**0.1506**	2.3155	**0.3488**
Shoulder	**0.0419**	0.5186	**0.0217**
Dec-Jan-Feb	**0.0442**	0.8426	**0.0372**
Nov & Mar	**0.0419**	0.8476	**0.0355**

Regression--Firm Industrial Klamath Falls

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.038518325	0.03941458	0.977260814	0.329280619
	KHDDD	0.054989665	0.002420898	22.71457399	1.45482E-65
	KQDDD	0.010036591	0.00197617	5.078808335	6.92943E-07

a Dependent Variable: CKDT

Regression--Firm Industrial Klamath Falls		Calibration Correction (%)	Final
Base	**0.0385**	2.3155	**0.0892**
Shoulder	**0.0550**	0.5186	**0.0285**
Dec-Jan-Feb	**0.0650**	0.8426	**0.0548**
Nov & Mar	**0.0550**	0.8476	**0.0466**

Regression--Residential La Grande

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.0145	0.0047	3.0840	0.002245712
	LHDDD	0.0091	0.0003	29.1164	7.7838E-87
	LQDDD	0.0018	0.0003	6.9195	3.06602E-11

a Dependent Variable: RLDT

Regression--Residential La Grande		Calibration Correction (%)	Final
Base	**0.0145**	2.0591	**0.0299**
Shoulder	**0.0091**	0.6308	**0.0057**
Dec-Jan-Feb	**0.0109**	1.1194	**0.0122**
Nov & Mar	**0.0091**	1.1161	**0.0102**

Regression--Commercial La Grande

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	0.1274	0.0226	5.6466	4.00306E-08
	LHDDD	0.0407	0.0015	27.1824	1.22582E-80
	LQDDD	0.0046	0.0013	3.6881	0.000271162

a Dependent Variable: CLDT

Regression--Commercial La Grande		Calibration Correction (%)	Final
Base	**0.1274**	2.0591	**0.2623**
Shoulder	**0.0407**	0.6308	**0.0257**
Dec-Jan-Feb	**0.0454**	1.1194	**0.0508**
Nov & Mar	**0.0407**	1.1161	**0.0455**

Regression--Firm Industrial La Grande

Coefficients

Model		Unstandardized Coefficients		t	Sig.
		B	Std. Error		
1	(Constant)	27.2292	1.6612	16.3912	7.75936E-43
	LHDDD	-1.1588	0.1104	-10.4999	5.65102E-22
	LQDDD	0.3679	0.0923	3.9869	8.54086E-05

a Dependent Variable: ILDT

Regression--Firm Industrial La Grande		Calibration Correction (%)	Final
Base	**27.2292**	2.0591	**56.0676**
Shoulder	**(1.1588)**	0.6308	**-**
Dec-Jan-Feb	**(0.7909)**	1.1194	**-**
Nov & Mar	**(1.1588)**	1.1161	**-**

Detailed Demand Data

Appendix 2.4

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

Area	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017
Expected Case										
Klam Falls	3.81	3.88	3.96	4.05	4.14	4.21	4.28	4.36	4.46	4.54
La Grande	2.43	2.45	2.47	2.49	2.51	2.53	2.55	2.58	2.61	2.64
Medford GTN	10.41	10.61	10.85	11.09	11.38	11.61	11.85	12.11	12.41	12.66
Medford NWP	4.68	4.77	4.87	4.98	5.11	5.22	5.33	5.44	5.58	5.69
Roseburg	4.24	4.32	4.43	4.55	4.70	4.83	4.96	5.10	5.27	5.42
OR Sub-Total	25.56	26.02	26.58	27.16	27.84	28.40	28.97	29.60	30.33	30.95
Spokane	40.49	41.37	42.38	43.42	44.53	45.29	46.23	46.77	47.75	48.56
Spokane GTN	5.59	5.71	5.85	5.99	6.14	6.25	6.36	6.46	6.59	6.70
Spokane NWP	23.74	24.25	24.85	25.46	26.12	26.57	27.01	27.44	28.02	28.49
WA/ID Sub-Total	69.81	71.33	73.07	74.87	76.79	78.11	79.60	80.67	82.36	83.75
Expected Case Total	95.37	97.35	99.65	102.03	104.63	106.51	108.58	110.27	112.69	114.70
High Case										
Klam Falls	3.82	3.88	4.05	4.21	4.37	4.50	4.63	4.75	4.90	5.02
La Grande	2.70	2.70	2.77	2.81	2.86	2.91	2.95	2.99	3.04	3.08
Medford GTN	10.48	10.66	11.16	11.59	12.08	12.48	12.89	13.29	13.75	14.12
Medford NWP	4.71	4.79	5.01	5.21	5.43	5.61	5.79	5.97	6.18	6.35
Roseburg	**4.30**	**4.38**	**4.60**	**4.80**	**5.05**	**5.26**	**5.48**	**5.70**	**5.96**	**6.18**
OR Sub-Total	**26.01**	**26.40**	**27.59**	**28.63**	**29.79**	**30.75**	**31.75**	**32.72**	**33.83**	**34.75**
Spokane	41.32	42.15	44.25	46.14	47.70	49.22	50.81	52.24	53.82	55.07
Spokane GTN	5.70	5.82	6.11	6.37	6.64	6.84	7.06	7.24	7.43	7.60
Spokane NWP	24.22	24.72	25.95	27.06	27.97	28.87	29.80	30.65	31.57	32.31
WA/ID Sub-Total	**71.24**	**72.69**	**76.30**	**79.56**	**82.31**	**84.93**	**87.67**	**90.12**	**92.82**	**94.99**
High Case Total	**97.25**	**99.09**	**103.89**	**108.19**	**112.09**	**115.68**	**119.42**	**122.84**	**126.65**	**129.74**
Low Case										
Klam Falls	3.76	3.69	3.74	3.79	3.83	3.86	3.89	3.93	3.97	4.01
La Grande	2.47	2.41	2.43	2.45	2.45	2.46	2.47	2.48	2.49	2.51
Medford GTN	10.29	10.11	10.25	10.40	10.54	10.63	10.74	10.85	11.00	11.11
Medford NWP	4.62	4.54	4.60	4.67	4.74	4.78	4.83	4.88	4.94	4.99
Roseburg	4.22	4.15	4.22	4.29	4.36	4.42	4.48	4.54	4.63	4.69
OR Sub-Total	**25.37**	**24.91**	**25.23**	**25.60**	**25.93**	**26.15**	**26.40**	**26.68**	**27.04**	**27.31**
Spokane	40.11	39.41	39.99	40.62	41.02	41.19	41.43	41.74	42.16	42.43
Spokane GTN	5.53	5.44	5.52	5.61	5.66	5.69	5.72	5.76	5.82	5.86
Spokane NWP	**23.52**	**23.11**	**23.45**	**23.82**	**24.06**	**24.16**	**24.35**	**24.49**	**24.74**	**24.90**
WA/ID Sub-Total	**69.17**	**67.96**	**68.96**	**70.05**	**70.73**	**71.04**	**71.50**	**71.99**	**72.73**	**73.19**
Low Case Total	**94.53**	**92.86**	**94.19**	**95.65**	**96.66**	**97.18**	**97.91**	**98.68**	**99.77**	**100.50**

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

Area	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Expected Case										
Klam Falls	4.71	4.80	4.87	4.96	5.04	5.13	5.20	5.29	5.38	5.46
La Grande	2.69	2.72	2.74	2.76	2.79	2.81	2.83	2.85	2.87	2.88
Medford GTN	13.20	13.50	13.73	13.99	14.24	14.53	14.74	14.98	15.22	15.50
Medford NWP	5.93	6.07	6.17	6.29	6.40	6.53	6.62	6.73	6.84	6.96
Roseburg	5.72	5.88	6.02	6.17	6.31	6.47	6.61	6.77	6.92	7.08
OR Sub-Total	**32.25**	**32.98**	**33.54**	**34.16**	**34.77**	**35.46**	**36.00**	**36.62**	**37.23**	**37.89**
Spokane	50.53	51.65	52.62	53.70	54.82	56.04	57.07	58.20	59.31	60.56
Spokane GTN	6.98	7.13	7.26	7.41	7.57	7.74	7.88	8.03	8.19	8.36
Spokane NWP	29.65	30.30	30.87	31.51	32.16	32.88	33.48	34.14	34.80	35.53
WA/ID Sub-Total	**87.15**	**89.08**	**90.75**	**92.63**	**94.55**	**96.66**	**98.43**	**100.37**	**102.29**	**104.44**
Expected Case Total	**119.40**	**122.06**	**124.29**	**126.78**	**129.33**	**132.12**	**134.44**	**136.99**	**139.52**	**142.33**
High Case										
Klam Falls	5.14	5.26	5.39	5.50	5.62	5.73	5.85	5.96	6.09	6.21
La Grande	3.11	3.15	3.18	3.22	3.25	3.28	3.30	3.33	3.35	3.38
Medford GTN	14.41	14.90	15.33	15.66	16.03	16.38	16.78	17.07	17.43	17.78
Medford NWP	6.48	6.69	6.89	7.04	7.20	7.36	7.54	7.67	7.83	7.99
Roseburg	6.40	6.62	6.86	7.06	7.27	7.48	7.71	7.91	8.13	8.35
OR Sub-Total	**35.53**	**36.62**	**37.65**	**38.47**	**39.37**	**40.24**	**41.18**	**41.94**	**42.84**	**43.71**
Spokane	56.44	57.96	59.62	61.08	62.71	64.31	66.07	67.56	69.25	70.90
Spokane GTN	7.79	8.00	8.23	8.43	8.66	8.88	9.12	9.32	9.56	9.78
Spokane NWP	33.11	34.00	34.98	35.83	36.79	37.73	38.76	39.63	40.62	41.59
WA/ID Sub-Total	**97.35**	**99.96**	**102.83**	**105.33**	**108.15**	**110.92**	**113.95**	**116.51**	**119.43**	**122.27**
High Case Total	**132.88**	**136.58**	**140.48**	**143.80**	**147.52**	**151.15**	**155.14**	**158.45**	**162.28**	**165.98**
Low Case										
Klam Falls	4.04	4.08	4.12	4.15	4.19	4.22	4.25	4.27	4.31	4.34
La Grande	2.52	2.53	2.54	2.55	2.56	2.56	2.57	2.57	2.58	2.58
Medford GTN	11.23	11.36	11.52	11.61	11.71	11.81	11.94	12.00	12.10	12.19
Medford NWP	5.05	5.10	5.17	5.21	5.26	5.31	5.37	5.40	5.44	5.48
Roseburg	4.77	4.84	4.92	4.98	5.05	5.11	5.18	5.24	5.30	5.37
OR Sub-Total	**27.61**	**27.91**	**28.26**	**28.50**	**28.77**	**29.01**	**29.31**	**29.49**	**29.72**	**29.96**
Spokane	42.85	43.28	43.80	44.19	44.65	45.06	45.56	45.89	46.31	46.73
Spokane GTN	5.92	5.98	6.05	6.10	6.16	6.22	6.29	6.34	6.39	6.45
Spokane NWP	25.15	25.40	25.71	25.93	26.20	26.44	26.73	26.93	27.17	27.42
WA/ID Sub-Total	**73.92**	**74.65**	**75.56**	**76.22**	**77.01**	**77.73**	**78.58**	**79.15**	**79.87**	**80.61**
Low Case Total	**101.53**	**102.57**	**103.82**	**104.71**	**105.78**	**106.74**	**107.89**	**108.64**	**109.60**	**110.57**

Appendix 2.4 - B

Annual Avg. Demand (MDth/d)

By Class (Net of DSM Savings)

Area	2007/2008 Residential	Commercial	Firm Industrial	Total	2008/2009 Residential	Commercial	Firm Industrial	Total
Expected Case								
Klam Falls	2.24	1.57	0.00	3.81	2.28	1.59	0.00	3.88
La Grande	1.36	0.91	0.16	2.43	1.38	0.91	0.16	2.45
Medford GTN	6.27	4.13	-	10.41	6.42	4.19	-	10.61
Medford NWP	2.82	1.86	-	4.68	2.88	1.88	-	4.77
Roseburg	2.21	1.98	0.04	4.24	2.27	2.01	0.04	4.32
OR Sub-Total	**14.90**	**10.45**	**0.20**	**25.56**	**15.23**	**10.58**	**0.21**	**26.02**
Spokane Both	23.63	15.49	1.37	40.49	24.18	15.79	1.40	41.37
Spokane GTN	3.26	2.14	0.19	5.59	3.34	2.18	0.19	5.71
Spokane NWP	13.85	9.08	0.80	23.74	14.18	9.26	0.82	24.25
WA/ID Sub-Total	**40.74**	**26.70**	**2.36**	**69.81**	**41.69**	**27.23**	**2.41**	**71.33**
Expected Case Total	**55.64**	**37.16**	**2.57**	**95.37**	**56.93**	**37.81**	**2.61**	**97.35**
High Case								
Klam Falls	2.25	1.57	0.01	3.82	2.29	1.59	0.01	3.88
La Grande	1.36	0.92	0.42	2.70	1.37	0.92	0.42	2.70
Medford GTN	6.31	4.17	-	10.48	6.45	4.21	-	10.66
Medford NWP	2.83	1.87	-	4.71	2.90	1.89	-	4.79
Roseburg	**2.23**	**2.02**	**0.04**	**4.30**	**2.29**	**2.04**	**0.04**	**4.38**
OR Sub-Total	**14.98**	**10.56**	**0.47**	**26.01**	**15.29**	**10.65**	**0.47**	**26.40**
Spokane Both	24.03	15.77	1.52	41.32	24.57	16.04	1.55	42.15
Spokane GTN	**3.31**	**2.18**	**0.21**	**5.70**	**3.39**	**2.21**	**0.21**	**5.82**
Spokane NWP	**14.09**	**9.25**	**0.89**	**24.22**	**14.41**	**9.40**	**0.91**	**24.72**
WA/ID Sub-Total	**41.43**	**27.20**	**2.62**	**71.24**	**42.36**	**27.65**	**2.67**	**72.69**
High Case Total	**56.41**	**37.75**	**3.09**	**97.25**	**57.65**	**38.30**	**3.14**	**99.09**
Low Case								
Klam Falls	2.21	1.55	0.01	3.76	2.16	1.52	0.01	3.69
La Grande	1.35	0.91	0.21	2.47	1.31	0.88	0.22	2.41
Medford GTN	6.20	4.09	-	10.29	6.09	4.02	-	10.11
Medford NWP	2.78	1.84	-	4.62	2.74	1.81	-	4.54
Roseburg	2.19	1.99	0.04	4.22	2.15	1.96	0.04	4.15
OR Sub-Total	**14.72**	**10.38**	**0.26**	**25.37**	**14.45**	**10.19**	**0.26**	**24.91**
Spokane Both	23.37	15.35	1.39	40.11	22.93	15.09	1.39	39.41
Spokane GTN	3.22	2.12	0.19	5.53	3.16	2.08	0.19	5.44
Spokane NWP	**13.70**	**9.00**	**0.82**	**23.52**	**13.45**	**8.85**	**0.81**	**23.11**
WA/ID Sub-Total	**40.29**	**26.47**	**2.40**	**69.17**	**39.54**	**26.02**	**2.40**	**67.96**
Low Case Total	**55.01**	**36.86**	**2.66**	**94.53**	**53.99**	**36.21**	**2.66**	**92.86**

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

Area	2009/2010 Residential	Commercial	Firm Industrial	Total	2010/2011 Residential	Commercial	Firm Industrial	Total
Expected Case								
Klam Falls	2.34	1.61	0.00	3.96	2.41	1.63	0.00	4.05
La Grande	1.40	0.91	0.16	2.47	1.41	0.91	0.16	2.49
Medford GTN	6.61	4.24	-	10.85	6.80	4.29	-	11.09
Medford NWP	2.97	1.91	-	4.87	3.06	1.93	-	4.98
Roseburg	2.35	2.04	0.04	4.43	2.44	2.07	0.04	4.55
OR Sub-Total	**15.66**	**10.72**	**0.21**	**26.58**	**16.12**	**10.83**	**0.21**	**27.16**
Spokane Both	24.80	16.15	1.43	42.38	25.42	16.54	1.46	43.42
Spokane GTN	3.42	2.23	0.20	5.85	3.51	2.28	0.20	5.99
Spokane NWP	14.55	9.47	0.84	24.85	14.91	9.69	0.85	25.46
WA/ID Sub-Total	**42.76**	**27.85**	**2.46**	**73.07**	**43.85**	**28.51**	**2.51**	**74.87**
Expected Case Total	**58.42**	**38.57**	**2.66**	**99.65**	**59.97**	**39.34**	**2.72**	**102.03**
High Case								
Klam Falls	2.41	1.64	0.01	4.05	2.53	1.67	0.01	4.21
La Grande	1.42	0.93	0.42	2.77	1.45	0.94	0.42	2.81
Medford GTN	6.82	4.34	-	11.16	7.16	4.43	-	11.59
Medford NWP	3.06	1.95	-	5.01	3.21	1.99	-	5.21
Roseburg	2.43	2.12	0.04	4.60	2.59	2.18	0.04	4.80
OR Sub-Total	**16.14**	**10.98**	**0.47**	**27.59**	**16.94**	**11.22**	**0.47**	**28.63**
Spokane Both	25.86	16.78	1.60	44.25	27.02	17.46	1.66	46.14
Spokane GTN	3.57	2.31	0.22	6.11	3.73	2.41	0.23	6.37
Spokane NWP	15.17	9.84	0.94	25.95	15.85	10.23	0.97	27.06
WA/ID Sub-Total	**44.60**	**28.93**	**2.77**	**76.30**	**46.60**	**30.10**	**2.86**	**79.56**
High Case Total	**60.74**	**39.91**	**3.24**	**103.89**	**63.54**	**41.32**	**3.33**	**108.19**
Low Case								
Klam Falls	2.19	1.54	0.01	3.74	2.24	1.55	0.01	3.79
La Grande	1.33	0.89	0.22	2.43	1.34	0.89	0.22	2.45
Medford GTN	6.20	4.05	-	10.25	6.32	4.08	-	10.40
Medford NWP	2.78	1.82	-	4.60	2.84	1.84	-	4.67
Roseburg	2.20	1.98	0.04	4.22	2.25	2.00	0.04	4.29
OR Sub-Total	**14.70**	**10.27**	**0.26**	**25.23**	**14.98**	**10.36**	**0.26**	**25.60**
Spokane Both	23.27	15.31	1.41	39.99	23.63	15.56	1.43	40.62
Spokane GTN	3.21	2.11	0.19	5.52	3.26	2.15	0.20	5.61
Spokane NWP	13.65	8.98	0.83	23.45	13.86	9.12	0.84	23.82
WA/ID Sub-Total	**40.13**	**26.40**	**2.43**	**68.96**	**40.75**	**26.83**	**2.46**	**70.05**
Low Case Total	**54.82**	**36.68**	**2.69**	**94.19**	**55.73**	**37.19**	**2.73**	**95.65**

Appendix 2.4 - B

Annual Avg. Demand (MDth/d)

By Class (Net of DSM Savings)

Area	2011/2012 Residential	Commercial	Firm Industrial	Total	2012/2013 Residential	Commercial	Firm Industrial	Total
Expected Case								
Klam Falls	2.49	1.65	0.00	4.14	2.54	1.66	0.00	4.21
La Grande	1.43	0.92	0.16	2.51	1.46	0.92	0.16	2.53
Medford GTN	7.04	4.34	-	11.38	7.24	4.38	-	11.61
Medford NWP	3.16	1.95	-	5.11	3.25	1.97	-	5.22
Roseburg	2.55	2.10	0.04	4.70	2.66	2.13	0.04	4.83
OR Sub-Total	**16.68**	**10.96**	**0.20**	**27.84**	**17.14**	**11.05**	**0.21**	**28.40**
Spokane Both	26.06	16.98	1.48	44.53	26.43	17.37	1.49	45.29
Spokane GTN	3.60	2.34	0.20	6.14	3.65	2.40	0.21	6.25
Spokane NWP	15.29	9.96	0.87	26.12	15.51	10.18	0.88	26.57
WA/ID Sub-Total	**44.95**	**29.28**	**2.55**	**76.79**	**45.58**	**29.95**	**2.58**	**78.11**
Expected Case Total	**61.63**	**40.24**	**2.76**	**104.63**	**62.73**	**41.00**	**2.78**	**106.51**
High Case								
Klam Falls	2.66	1.71	0.01	4.37	2.75	1.74	0.01	4.50
La Grande	1.49	0.95	0.42	2.86	1.53	0.96	0.42	2.91
Medford GTN	7.55	4.53	-	12.08	7.88	4.60	-	12.48
Medford NWP	3.39	2.04	-	5.43	3.54	2.07	-	5.61
Roseburg	2.77	2.23	0.04	5.05	2.94	2.28	0.04	5.26
OR Sub-Total	**17.86**	**11.46**	**0.47**	**29.79**	**18.64**	**11.64**	**0.47**	**30.75**
Spokane Both	27.79	18.21	1.70	47.70	28.64	18.87	1.72	49.22
Spokane GTN	3.89	2.51	0.23	6.64	4.00	2.60	0.24	6.84
Spokane NWP	16.30	10.68	0.99	27.97	16.80	11.06	1.01	28.87
WA/ID Sub-Total	**47.98**	**31.40**	**2.92**	**82.31**	**49.43**	**32.53**	**2.97**	**84.93**
High Case Total	**65.84**	**42.87**	**3.39**	**112.09**	**68.07**	**44.17**	**3.44**	**115.68**
Low Case								
Klam Falls	2.27	1.56	0.01	3.83	2.29	1.56	0.01	3.86
La Grande	1.35	0.89	0.21	2.45	1.36	0.89	0.22	2.46
Medford GTN	6.44	4.11	-	10.54	6.51	4.12	-	10.63
Medford NWP	2.89	1.85	-	4.74	2.93	1.85	-	4.78
Roseburg	2.31	2.01	0.04	4.36	2.35	2.02	0.04	4.42
OR Sub-Total	**15.25**	**10.42**	**0.26**	**25.93**	**15.45**	**10.44**	**0.26**	**26.15**
Spokane Both	23.78	15.79	1.44	41.02	23.78	15.96	1.45	41.19
Spokane GTN	3.28	2.18	0.20	5.66	3.28	2.20	0.20	5.69
Spokane NWP	13.96	9.26	0.84	24.06	13.96	9.36	0.85	24.16
WA/ID Sub-Total	**41.02**	**27.23**	**2.48**	**70.73**	**41.02**	**27.52**	**2.49**	**71.04**
Low Case Total	**56.28**	**37.64**	**2.74**	**96.66**	**56.47**	**37.96**	**2.76**	**97.18**

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

Area	2013/2014 Residential	Commercial	Firm Industrial	Total	2014/2015 Residential	Commercial	Firm Industrial	Total
Expected Case								
Klam Falls	2.60	1.68	0.00	4.28	2.66	1.70	0.00	4.36
La Grande	1.47	0.92	0.16	2.55	1.50	0.92	0.16	2.58
Medford GTN	7.44	4.41	-	11.85	7.65	4.46	-	12.11
Medford NWP	3.34	1.98	-	5.33	3.44	2.01	-	5.44
Roseburg	2.76	2.16	0.04	4.96	2.87	2.19	0.04	5.10
OR Sub-Total	**17.62**	**11.15**	**0.21**	**28.97**	**18.11**	**11.28**	**0.21**	**29.60**
Spokane Both	26.92	17.80	1.52	46.23	27.02	18.22	1.54	46.77
Spokane GTN	3.69	2.45	0.21	6.36	3.74	2.51	0.21	6.46
Spokane NWP	15.69	10.43	0.89	27.01	15.86	10.68	0.90	27.44
WA/ID Sub-Total	**46.31**	**30.68**	**2.61**	**79.60**	**46.62**	**31.41**	**2.65**	**80.67**
Expected Case Total	**63.93**	**41.83**	**2.82**	**108.58**	**64.73**	**42.69**	**2.86**	**110.27**
High Case								
Klam Falls	2.86	1.77	0.01	4.63	2.95	1.80	0.01	4.75
La Grande	1.57	0.96	0.42	2.95	1.60	0.97	0.42	2.99
Medford GTN	8.21	4.68	-	12.89	8.53	4.76	-	13.29
Medford NWP	3.69	2.10	-	5.79	3.83	2.14	-	5.97
Roseburg	3.11	2.33	0.04	5.48	3.27	2.39	0.04	5.70
OR Sub-Total	**19.43**	**11.85**	**0.47**	**31.75**	**20.19**	**12.06**	**0.47**	**32.72**
Spokane Both	29.49	19.56	1.76	50.81	30.24	20.21	1.79	52.24
Spokane GTN	4.12	2.70	0.24	7.06	4.20	2.79	0.25	7.24
Spokane NWP	17.30	11.47	1.03	29.80	17.75	11.85	1.05	30.65
WA/ID Sub-Total	**50.91**	**33.73**	**3.03**	**87.67**	**52.19**	**34.84**	**3.09**	**90.12**
High Case Total	**70.34**	**45.58**	**3.50**	**119.42**	**72.38**	**46.90**	**3.56**	**122.84**
Low Case								
Klam Falls	2.32	1.57	0.01	3.89	2.35	1.58	0.01	3.93
La Grande	1.36	0.89	0.22	2.47	1.37	0.89	0.22	2.48
Medford GTN	6.61	4.13	-	10.74	6.70	4.15	-	10.85
Medford NWP	2.97	1.86	-	4.83	3.01	1.87	-	4.88
Roseburg	2.40	2.03	0.04	4.48	2.45	2.05	0.04	4.54
OR Sub-Total	**15.66**	**10.48**	**0.26**	**26.40**	**15.89**	**10.53**	**0.26**	**26.68**
Spokane Both	23.81	16.17	1.46	41.43	23.91	16.37	1.47	41.74
Spokane GTN	3.29	2.23	0.20	5.72	3.30	2.26	0.20	5.76
Spokane NWP	14.02	9.48	0.86	24.35	14.03	9.59	0.86	24.49
WA/ID Sub-Total	**41.12**	**27.87**	**2.52**	**71.50**	**41.24**	**28.22**	**2.53**	**71.99**
Low Case Total	**56.78**	**38.35**	**2.78**	**97.91**	**57.13**	**38.75**	**2.80**	**98.68**

Appendix 2.4 - B

Annual Avg. Demand (MDth/d)

By Class (Net of DSM Savings)

	2015/2016				2016/2017			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	2.73	1.73	0.00	4.46	2.78	1.75	0.00	4.54
La Grande	1.52	0.93	0.16	2.61	1.55	0.93	0.16	2.64
Medford GTN	7.88	4.53	-	12.41	8.08	4.59	-	12.66
Medford NWP	3.54	2.04	-	5.58	3.63	2.06	-	5.69
Roseburg	2.99	2.24	0.04	5.27	3.10	2.28	0.04	5.42
OR Sub-Total	**18.67**	**11.46**	**0.20**	**30.33**	**19.13**	**11.61**	**0.21**	**30.95**
Spokane Both	27.51	18.68	1.56	47.75	27.92	19.06	1.57	48.56
Spokane GTN	3.80	2.58	0.22	6.59	3.86	2.63	0.22	6.70
Spokane NWP	16.15	10.95	0.91	28.02	16.39	11.18	0.92	28.49
WA/ID Sub-Total	**47.47**	**32.20**	**2.69**	**82.36**	**48.17**	**32.87**	**2.71**	**83.75**
Expected Case Total	**66.13**	**43.66**	**2.89**	**112.69**	**67.30**	**44.48**	**2.92**	**114.70**
High Case								
Klam Falls	3.05	1.85	0.01	4.90	3.13	1.88	0.01	5.02
La Grande	1.64	0.98	0.42	3.04	1.68	0.98	0.42	3.08
Medford GTN	8.89	4.86	-	13.75	9.18	4.95	-	14.12
Medford NWP	3.99	2.19	-	6.18	4.12	2.22	-	6.35
Roseburg	3.46	2.46	0.04	5.96	3.62	2.52	0.04	6.18
OR Sub-Total	**21.03**	**12.33**	**0.47**	**33.83**	**21.73**	**12.56**	**0.47**	**34.75**
Spokane Both	31.08	20.91	1.83	53.82	31.75	21.48	1.85	55.07
Spokane GTN	4.30	2.88	0.25	7.43	4.39	2.96	0.25	7.60
Spokane NWP	18.24	12.26	1.07	31.57	18.64	12.59	1.08	32.31
WA/ID Sub-Total	**53.62**	**36.06**	**3.15**	**92.82**	**54.77**	**37.03**	**3.18**	**94.99**
High Case Total	**74.65**	**48.39**	**3.62**	**126.65**	**76.50**	**49.59**	**3.65**	**129.74**
Low Case								
Klam Falls	2.37	1.59	0.01	3.97	2.40	1.60	0.01	4.01
La Grande	1.39	0.89	0.21	2.49	1.40	0.89	0.22	2.51
Medford GTN	6.82	4.18	-	11.00	6.90	4.20	-	11.11
Medford NWP	3.07	1.88	-	4.94	3.10	1.89	-	4.99
Roseburg	2.51	2.08	0.04	4.63	2.56	2.09	0.04	4.69
OR Sub-Total	**16.16**	**10.62**	**0.26**	**27.04**	**16.36**	**10.69**	**0.26**	**27.31**
Spokane Both	24.08	16.60	1.48	42.16	24.17	16.77	1.49	42.43
Spokane GTN	3.33	2.29	0.20	5.82	3.34	2.31	0.21	5.86
Spokane NWP	14.14	9.73	0.87	24.74	14.20	9.83	0.87	24.90
WA/ID Sub-Total	**41.55**	**28.63**	**2.55**	**72.73**	**41.71**	**28.92**	**2.56**	**73.19**
Low Case Total	**57.71**	**39.25**	**2.82**	**99.77**	**58.07**	**39.61**	**2.83**	**100.50**

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

	2017/2018				2018/2019			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	2.84	1.78	0.00	4.63	2.90	1.80	0.00	4.71
La Grande	1.57	0.94	0.16	2.67	1.59	0.94	0.16	2.69
Medford GTN	8.28	4.65	-	12.93	8.49	4.71	-	13.20
Medford NWP	3.72	2.09	-	5.81	3.81	2.12	-	5.93
Roseburg	3.21	2.32	0.04	5.57	3.32	2.36	0.04	5.72
OR Sub-Total	**19.63**	**11.78**	**0.21**	**31.61**	**20.12**	**11.93**	**0.21**	**32.25**
Spokane Both	28.46	19.48	1.59	49.53	29.02	19.90	1.61	50.53
Spokane GTN	3.93	2.69	0.22	6.84	4.01	2.75	0.22	6.98
Spokane NWP	16.71	11.42	0.93	29.06	17.03	11.67	0.94	29.65
WA/ID Sub-Total	**49.10**	**33.59**	**2.74**	**85.43**	**50.06**	**34.32**	**2.77**	**87.15**
Expected Case Total	**68.73**	**45.37**	**2.94**	**117.04**	**70.18**	**46.25**	**2.98**	**119.40**
High Case								
Klam Falls	3.21	1.92	0.01	5.14	3.30	1.95	0.01	5.26
La Grande	1.71	0.98	0.42	3.11	1.74	0.99	0.42	3.15
Medford GTN	9.40	5.01	-	14.41	9.78	5.12	-	14.90
Medford NWP	4.22	2.25	-	6.48	4.39	2.30	-	6.69
Roseburg	3.78	2.58	0.04	6.40	3.95	2.63	0.04	6.62
OR Sub-Total	**22.32**	**12.74**	**0.47**	**35.53**	**23.15**	**13.00**	**0.47**	**36.62**
Spokane Both	32.51	22.06	1.87	56.44	33.37	22.69	1.90	57.96
Spokane GTN	4.49	3.04	0.26	7.79	4.61	3.13	0.26	8.00
Spokane NWP	19.09	12.93	1.10	33.11	19.59	13.30	1.11	34.00
WA/ID Sub-Total	**56.09**	**38.04**	**3.22**	**97.35**	**57.57**	**39.11**	**3.28**	**99.96**
High Case Total	**78.41**	**50.78**	**3.69**	**132.88**	**80.72**	**52.11**	**3.75**	**136.58**
Low Case								
Klam Falls	2.42	1.62	0.01	4.04	2.45	1.63	0.01	4.08
La Grande	1.41	0.90	0.22	2.52	1.41	0.90	0.22	2.53
Medford GTN	**7.00**	**4.24**	**-**	**11.23**	**7.09**	**4.27**	**-**	**11.36**
Medford NWP	**3.14**	**1.90**	**-**	**5.05**	**3.19**	**1.91**	**-**	**5.10**
Roseburg	2.61	2.11	0.04	4.77	2.67	2.13	0.04	4.84
OR Sub-Total	**16.59**	**10.76**	**0.26**	**27.61**	**16.81**	**10.84**	**0.26**	**27.91**
Spokane Both	24.38	16.97	1.50	42.85	24.60	17.18	1.51	43.28
Spokane GTN	3.37	2.34	0.21	5.92	3.40	2.37	0.21	5.98
Spokane NWP	14.32	9.95	0.88	25.15	14.45	10.07	0.88	25.40
WA/ID Sub-Total	**42.07**	**29.27**	**2.58**	**73.92**	**42.44**	**29.61**	**2.60**	**74.65**
Low Case Total	**58.65**	**40.03**	**2.84**	**101.53**	**59.25**	**40.45**	**2.86**	**102.57**

Appendix 2.4 - B

Annual Avg. Demand (MDth/d)

By Class (Net of DSM Savings)

	2019/2020				2020/2021			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	2.97	1.83	0.00	4.80	3.02	1.85	0.00	4.87
La Grande	1.61	0.95	0.16	2.72	1.63	0.95	0.16	2.74
Medford GTN	8.72	4.79	-	13.50	8.90	4.84	-	13.73
Medford NWP	3.92	2.15	-	6.07	4.00	2.17	-	6.17
Roseburg	3.44	2.40	0.04	5.88	3.55	2.43	0.04	6.02
OR Sub-Total	**20.66**	**12.11**	**0.20**	**32.98**	**21.10**	**12.23**	**0.21**	**33.54**
Spokane Both	29.65	20.38	1.62	51.65	30.21	20.78	1.63	52.62
Spokane GTN	4.10	2.81	0.22	7.13	4.17	2.87	0.22	7.26
Spokane NWP	17.41	11.95	0.95	30.30	17.74	12.18	0.96	30.87
WA/ID Sub-Total	**51.16**	**35.14**	**2.79**	**89.08**	**52.12**	**35.82**	**2.81**	**90.75**
Expected Case Total	**71.82**	**47.25**	**2.99**	**122.06**	**73.22**	**48.05**	**3.02**	**124.29**
High Case								
Klam Falls	3.40	1.99	0.01	5.39	3.48	2.01	0.01	5.50
La Grande	1.77	1.00	0.42	3.18	1.80	1.00	0.42	3.22
Medford GTN	10.11	5.22	-	15.33	10.37	5.29	-	15.66
Medford NWP	4.54	2.35	-	6.89	4.66	2.38	-	7.04
Roseburg	4.12	2.69	0.04	6.86	4.28	2.73	0.04	7.06
OR Sub-Total	**23.94**	**13.25**	**0.47**	**37.65**	**24.58**	**13.42**	**0.47**	**38.47**
Spokane Both	34.34	23.37	1.92	59.62	35.19	23.95	1.94	61.08
Spokane GTN	4.74	3.22	0.26	8.23	4.86	3.30	0.27	8.43
Spokane NWP	20.15	13.70	1.12	34.98	20.65	14.04	1.13	35.83
WA/ID Sub-Total	**59.23**	**40.30**	**3.30**	**102.83**	**60.70**	**41.29**	**3.34**	**105.33**
High Case Total	**83.17**	**53.55**	**3.77**	**140.48**	**85.28**	**54.72**	**3.81**	**143.80**
Low Case								
Klam Falls	2.48	1.64	0.01	4.12	2.50	1.64	0.01	4.15
La Grande	1.42	0.90	0.21	2.54	1.43	0.90	0.22	2.55
Medford GTN	7.21	4.31	-	11.52	7.28	4.33	-	11.61
Medford NWP	3.24	1.93	-	5.17	3.27	1.94	-	5.21
Roseburg	2.73	2.15	0.04	4.92	2.77	2.16	0.04	4.98
OR Sub-Total	**17.07**	**10.93**	**0.26**	**28.26**	**17.26**	**10.98**	**0.26**	**28.50**
Spokane Both	24.87	17.42	1.51	43.80	25.07	17.59	1.52	44.19
Spokane GTN	3.44	2.40	0.21	6.05	3.46	2.43	0.21	6.10
Spokane NWP	14.61	10.21	0.89	25.71	14.72	10.31	0.89	25.93
WA/ID Sub-Total	**42.92**	**30.03**	**2.61**	**75.56**	**43.26**	**30.33**	**2.62**	**76.22**
Low Case Total	**59.99**	**40.96**	**2.87**	**103.82**	**60.52**	**41.31**	**2.88**	**104.71**

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

	2021/2022				2022/2023			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	3.08	1.87	0.00	4.96	3.14	1.89	0.00	5.04
La Grande	1.65	0.95	0.16	2.76	1.67	0.96	0.16	2.79
Medford GTN	9.09	4.89	-	13.99	9.28	4.96	-	14.24
Medford NWP	4.08	2.20	-	6.29	4.17	2.23	-	6.40
Roseburg	3.66	2.46	0.04	6.17	3.77	2.50	0.04	6.31
OR Sub-Total	**21.57**	**12.38**	**0.21**	**34.16**	**22.04**	**12.53**	**0.21**	**34.77**
Spokane Both	30.85	21.21	1.64	53.70	31.51	21.65	1.66	54.82
Spokane GTN	4.26	2.93	0.23	7.41	4.35	2.99	0.23	7.57
Spokane NWP	18.11	12.44	0.96	31.51	18.50	12.69	0.97	32.16
WA/ID Sub-Total	**53.22**	**36.58**	**2.83**	**92.63**	**54.36**	**37.33**	**2.86**	**94.55**
Expected Case Total	**74.79**	**48.96**	**3.04**	**126.78**	**76.40**	**49.86**	**3.06**	**129.33**
High Case								
Klam Falls	3.56	2.05	0.01	5.62	3.65	2.08	0.01	5.73
La Grande	1.82	1.00	0.42	3.25	1.85	1.01	0.42	3.28
Medford GTN	10.65	5.38	-	16.03	10.92	5.46	-	16.38
Medford NWP	4.79	2.42	-	7.20	4.91	2.46	-	7.36
Roseburg	4.45	2.78	0.04	7.27	4.61	2.83	0.04	7.48
OR Sub-Total	**25.27**	**13.63**	**0.47**	**39.37**	**25.93**	**13.84**	**0.47**	**40.24**
Spokane Both	36.16	24.59	1.95	62.71	37.12	25.21	1.98	64.31
Spokane GTN	4.99	3.39	0.27	8.66	5.13	3.48	0.27	8.88
Spokane NWP	21.22	14.42	1.15	36.79	21.79	14.78	1.16	37.73
WA/ID Sub-Total	**62.38**	**42.40**	**3.37**	**108.15**	**64.04**	**43.47**	**3.41**	**110.92**
High Case Total	**87.65**	**56.03**	**3.84**	**147.52**	**89.97**	**57.31**	**3.88**	**151.15**
Low Case								
Klam Falls	2.53	1.65	0.01	4.19	2.55	1.66	0.01	4.22
La Grande	1.44	0.90	0.22	2.56	1.44	0.90	0.22	2.56
Medford GTN	7.37	4.34	-	11.71	7.44	4.37	-	11.81
Medford NWP	3.31	1.95	-	5.26	3.34	1.96	-	5.31
Roseburg	2.83	2.18	0.04	5.05	2.88	2.19	0.04	5.11
OR Sub-Total	**17.47**	**11.04**	**0.26**	**28.77**	**17.65**	**11.09**	**0.26**	**29.01**
Spokane Both	**25.32**	**17.80**	**1.53**	**44.65**	**25.55**	**17.98**	**1.53**	**45.06**
Spokane GTN	3.50	2.46	0.21	6.16	3.53	2.48	0.21	6.22
Spokane NWP	14.87	10.44	0.89	26.20	15.00	10.54	0.90	26.44
WA/ID Sub-Total	**43.69**	**30.69**	**2.63**	**77.01**	**44.09**	**31.00**	**2.64**	**77.73**
Low Case Total	**61.17**	**41.73**	**2.89**	**105.78**	**61.74**	**42.09**	**2.91**	**106.74**

Appendix 2.4 - B

Annual Avg. Demand (MDth/d)

By Class (Net of DSM Savings)

	2023/2024				2024/2025			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	3.20	1.92	0.00	5.13	3.26	1.94	0.00	5.20
La Grande	1.69	0.96	0.16	2.81	1.70	0.97	0.16	2.83
Medford GTN	9.50	5.03	-	14.53	9.65	5.08	-	14.74
Medford NWP	4.27	2.26	-	6.53	4.34	2.29	-	6.62
Roseburg	3.89	2.54	0.04	6.47	4.00	2.57	0.04	6.61
OR Sub-Total	**22.55**	**12.71**	**0.20**	**35.46**	**22.95**	**12.85**	**0.21**	**36.00**
Spokane Both	32.24	22.13	1.67	56.04	32.85	22.54	1.68	57.07
Spokane GTN	4.45	3.05	0.23	7.74	4.54	3.11	0.23	7.88
Spokane NWP	18.93	12.98	0.98	32.88	19.28	13.21	0.98	33.48
WA/ID Sub-Total	**55.62**	**38.16**	**2.87**	**96.66**	**56.68**	**38.86**	**2.90**	**98.43**
Expected Case Total	**78.17**	**50.87**	**3.08**	**132.12**	**79.62**	**51.71**	**3.10**	**134.44**
High Case								
Klam Falls	3.74	2.11	0.01	5.85	3.81	2.15	0.01	5.96
La Grande	1.87	1.01	0.42	3.30	1.89	1.02	0.42	3.33
Medford GTN	11.22	5.56	-	16.78	11.44	5.64	-	17.07
Medford NWP	5.04	2.50	-	7.54	5.14	2.53	-	7.67
Roseburg	4.78	2.89	0.04	7.71	4.93	2.94	0.04	7.91
OR Sub-Total	**26.64**	**14.07**	**0.47**	**41.18**	**27.20**	**14.27**	**0.47**	**41.94**
Spokane Both	38.20	25.88	1.99	66.07	39.09	26.45	2.01	67.56
Spokane GTN	5.27	3.57	0.27	9.12	5.40	3.65	0.28	9.32
Spokane NWP	22.42	15.17	1.17	38.76	22.94	15.51	1.18	39.63
WA/ID Sub-Total	**65.89**	**44.63**	**3.43**	**113.95**	**67.43**	**45.61**	**3.47**	**116.51**
High Case Total	**92.53**	**58.70**	**3.90**	**155.14**	**94.63**	**59.88**	**3.94**	**158.45**
Low Case								
Klam Falls	2.57	1.67	0.01	4.25	2.59	1.68	0.01	4.27
La Grande	1.45	0.90	0.21	2.57	1.45	0.91	0.22	2.57
Medford GTN	7.54	4.40	-	11.94	7.59	4.42	-	12.00
Medford NWP	**3.39**	**1.98**	**-**	**5.37**	**3.41**	**1.99**	**-**	**5.40**
Roseburg	**2.93**	**2.21**	**0.04**	**5.18**	**2.97**	**2.23**	**0.04**	**5.24**
OR Sub-Total	**17.88**	**11.17**	**0.26**	**29.31**	**18.01**	**11.22**	**0.26**	**29.49**
Spokane Both	25.82	18.20	1.54	45.56	25.99	18.35	1.54	45.89
Spokane GTN	3.57	2.51	0.21	6.29	3.59	2.53	0.21	6.34
Spokane NWP	15.16	10.67	0.90	26.73	15.26	10.76	0.90	26.93
WA/ID Sub-Total	**44.55**	**31.38**	**2.65**	**78.58**	**44.85**	**31.64**	**2.66**	**79.15**
Low Case Total	**62.43**	**42.55**	**2.91**	**107.89**	**62.85**	**42.86**	**2.92**	**108.64**

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

	2025/2026				2026/2027			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	3.32	1.97	0.00	5.29	3.38	2.00	0.00	5.38
La Grande	1.72	0.97	0.16	2.85	1.73	0.97	0.16	2.87
Medford GTN	9.84	5.15	-	14.98	10.01	5.21	-	15.22
Medford NWP	4.42	2.32	-	6.73	4.50	2.34	-	6.84
Roseburg	4.11	2.61	0.04	6.77	4.23	2.65	0.04	6.92
OR Sub-Total	**23.40**	**13.01**	**0.21**	**36.62**	**23.85**	**13.18**	**0.21**	**37.23**
Spokane Both	33.52	22.99	1.69	58.20	34.17	23.44	1.71	59.31
Spokane GTN	4.63	3.17	0.23	8.03	4.72	3.23	0.24	8.19
Spokane NWP	19.67	13.48	0.99	34.14	20.05	13.74	1.00	34.80
WA/ID Sub-Total	**57.82**	**39.64**	**2.92**	**100.37**	**58.94**	**40.41**	**2.94**	**102.29**
Expected Case Total	**81.22**	**52.65**	**3.12**	**136.99**	**82.79**	**53.59**	**3.15**	**139.52**
High Case								
Klam Falls	3.90	2.18	0.01	6.09	3.99	2.22	0.01	6.21
La Grande	1.91	1.02	0.42	3.35	1.93	1.03	0.42	3.38
Medford GTN	11.71	5.73	-	17.43	11.96	5.82	-	17.78
Medford NWP	5.26	2.58	-	7.83	5.37	2.62	-	7.99
Roseburg	5.10	3.00	0.04	8.13	5.26	3.05	0.04	8.35
OR Sub-Total	**27.87**	**14.50**	**0.47**	**42.84**	**28.51**	**14.74**	**0.47**	**43.71**
Spokane Both	40.12	27.11	2.03	69.25	41.09	27.75	2.06	70.90
Spokane GTN	5.54	3.74	0.28	9.56	5.67	3.83	0.28	9.78
Spokane NWP	23.54	15.89	1.19	40.62	24.11	16.27	1.20	41.59
WA/ID Sub-Total	**69.20**	**46.74**	**3.50**	**119.43**	**70.88**	**47.85**	**3.54**	**122.27**
High Case Total	**97.07**	**61.24**	**3.97**	**162.28**	**99.39**	**62.58**	**4.01**	**165.98**
Low Case								
Klam Falls	2.61	1.69	0.01	4.31	2.63	1.70	0.01	4.34
La Grande	1.45	0.91	0.22	2.58	1.46	0.91	0.22	2.58
Medford GTN	7.66	4.44	-	12.10	7.73	4.47	-	12.19
Medford NWP	3.44	2.00	-	5.44	3.47	2.01	-	5.48
Roseburg	3.02	2.24	0.04	5.30	3.07	2.26	0.04	5.37
OR Sub-Total	**18.18**	**11.28**	**0.26**	**29.72**	**18.36**	**11.34**	**0.26**	**29.96**
Spokane Both	26.22	18.54	1.55	46.31	26.44	18.74	1.55	46.73
Spokane GTN	3.62	2.56	0.21	6.39	3.65	2.58	0.21	6.45
Spokane NWP	15.39	10.87	0.91	27.17	15.53	10.99	0.91	27.42
WA/ID Sub-Total	**45.23**	**31.97**	**2.67**	**79.87**	**45.62**	**32.31**	**2.68**	**80.61**
Low Case Total	**63.42**	**43.25**	**2.93**	**109.60**	**63.98**	**43.65**	**2.94**	**110.57**

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

	2007/2008				2008/2009			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	819.10	574.41	1.60	1,395.11	833.83	580.85	1.59	1,416.27
La Grande	498.01	332.29	58.14	888.45	503.05	332.31	58.09	893.45
Medford GTN	2,295.64	1,513.18	-	3,808.81	2,342.47	1,528.87	-	3,871.34
Medford NWP	1,031.37	679.86	-	1,711.24	1,052.41	686.95	-	1,739.36
Rosburg	809.71	725.26	15.28	1,550.25	828.25	733.18	15.23	1,576.66
OR Sub-Total	**5,453.83**	**3,825.01**	**75.02**	**9,353.86**	**5,560.02**	**3,862.16**	**74.91**	**9,497.08**
Spokane Both	**8,648.11**	**5,668.88**	**501.97**	**14,818.96**	**8,825.15**	**5,763.99**	**509.20**	**15,098.34**
Spokane GTN	1,193.09	781.91	69.24	2,044.24	1,217.76	795.03	70.23	2,083.02
Spokane NWP	5,070.64	3,323.14	294.26	8,688.03	5,175.46	3,378.89	298.50	8,852.85
WA/ID Sub-Total	**14,911.84**	**9,773.93**	**865.46**	**25,551.24**	**15,218.37**	**9,937.91**	**877.94**	**26,034.21**
Base Case Total	**20,365.67**	**13,598.94**	**940.48**	**34,905.10**	**20,778.38**	**13,800.06**	**952.84**	**35,531.29**
High Case								
Klam Falls	821.92	575.58	2.16	1,399.66	834.43	579.98	2.15	1,416.56
La Grande	498.07	337.83	153.91	989.80	498.95	334.13	153.79	986.87
Medford GTN	2,309.08	1,525.04	-	3,834.13	2,353.66	1,535.94	-	3,889.60
Medford NWP	1,037.41	685.20	-	1,722.61	1,057.44	690.12	-	1,747.57
Rosburg	816.43	740.28	15.28	1,571.99	835.52	746.40	15.16	1,597.08
OR Sub-Total	**5,482.91**	**3,863.93**	**171.34**	**9,518.19**	**5,580.00**	**3,886.57**	**171.10**	**9,637.67**
Spokane Both	**8,793.36**	**5,773.17**	**555.72**	**15,122.25**	**8,966.99**	**5,853.20**	**566.09**	**15,386.28**
Spokane GTN	1,213.13	796.30	76.65	2,086.08	1,237.32	807.34	78.08	2,122.74
Spokane NWP	5,155.78	3,384.27	325.77	8,865.82	5,258.61	3,431.19	331.85	9,021.64
WA/ID Sub-Total	**15,162.27**	**9,953.75**	**958.13**	**26,074.15**	**15,462.92**	**10,091.72**	**976.02**	**26,530.66**
High Case Total	**20,645.18**	**13,817.68**	**1,129.48**	**35,592.34**	**21,042.92**	**13,978.29**	**1,147.12**	**36,168.33**
Low Case								
Klam Falls	807.83	567.51	1.95	1,377.29	788.71	556.05	1.94	1,346.70
La Grande	493.33	332.21	78.66	904.21	479.57	322.53	78.55	880.65
Medford GTN	2,268.04	1,497.93	-	3,765.97	2,222.51	1,466.64	-	3,689.15
Medford NWP	1,018.97	673.02	-	1,691.99	998.52	658.99	-	1,657.51
Rosburg	800.02	729.47	15.28	1,544.76	786.11	715.23	15.09	1,516.42
OR Sub-Total	**5,388.19**	**3,800.14**	**95.89**	**9,284.21**	**5,275.41**	**3,719.44**	**95.58**	**9,090.43**
Spokane Both	**8,552.62**	**5,619.89**	**509.29**	**14,681.80**	**8,368.53**	**5,508.71**	**507.44**	**14,384.68**
Spokane GTN	1,179.92	775.16	70.25	2,025.32	1,154.77	759.82	69.99	1,984.59
Spokane NWP	5,014.66	3,294.42	298.55	8,607.63	4,907.78	3,229.24	297.47	8,434.49
WA/ID Sub-Total	**14,747.19**	**9,689.47**	**878.09**	**25,314.75**	**14,431.09**	**9,497.77**	**874.90**	**24,803.75**
Low Case Total	**20,135.38**	**13,489.61**	**973.98**	**34,598.97**	**19,706.50**	**13,217.21**	**970.48**	**33,894.19**

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

	2009/2010				2010/2011			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	855.13	588.71	1.59	1,445.43	880.99	595.00	1.59	1,477.59
La Grande	509.72	333.23	58.09	901.04	516.40	333.83	58.09	908.31
Medford GTN	2,411.29	1,548.49	-	3,959.78	2,482.40	1,565.43	-	4,047.83
Medford NWP	1,083.33	695.79	-	1,779.13	1,115.28	703.44	-	1,818.72
Rosburg	856.40	745.63	15.23	1,617.26	889.72	756.01	15.23	1,660.96
OR Sub-Total	**5,715.89**	**3,911.85**	**74.91**	**9,702.64**	**5,884.80**	**3,953.71**	**74.91**	**9,913.41**
Spokane Both	**9,051.04**	**5,895.55**	**520.33**	**15,466.92**	**9,279.48**	**6,035.43**	**532.28**	**15,847.20**
Spokane GTN	1,249.16	813.18	71.77	2,134.11	1,280.91	832.47	73.42	2,186.81
Spokane NWP	5,308.93	3,456.01	305.02	9,069.96	5,443.89	3,538.01	312.03	9,293.93
WA/ID Sub-Total	**15,609.13**	**10,164.75**	**897.11**	**26,670.99**	**16,004.28**	**10,405.92**	**917.73**	**27,327.93**
Base Case Total	**21,325.02**	**14,076.60**	**972.02**	**36,373.63**	**21,889.07**	**14,359.63**	**992.64**	**37,241.34**
High Case								
Klam Falls	878.71	598.71	2.15	1,479.57	923.80	611.02	2.15	1,536.97
La Grande	516.50	340.07	153.79	1,010.37	530.02	343.45	153.79	1,027.26
Medford GTN	2,488.80	1,583.63	-	4,072.43	2,611.86	1,618.75	-	4,230.61
Medford NWP	1,118.16	711.58	-	1,829.74	1,173.44	727.39	-	1,900.84
Rosburg	888.46	773.84	15.22	1,677.53	944.20	794.24	15.25	1,753.69
OR Sub-Total	**5,890.63**	**4,007.84**	**171.17**	**10,069.64**	**6,183.31**	**4,094.86**	**171.20**	**10,449.37**
Spokane Both	**9,440.50**	**6,124.69**	**585.60**	**16,150.79**	**9,861.85**	**6,372.11**	**606.17**	**16,840.13**
Spokane GTN	1,302.88	844.78	80.77	2,228.43	1,361.24	878.91	83.61	2,323.76
Spokane NWP	5,537.23	3,590.34	343.28	9,470.85	5,785.28	3,735.38	355.34	9,875.99
WA/ID Sub-Total	**16,280.61**	**10,559.81**	**1,009.65**	**27,850.07**	**17,008.37**	**10,986.40**	**1,045.12**	**29,039.88**
High Case Total	**22,171.24**	**14,567.65**	**1,180.82**	**37,919.71**	**23,191.68**	**15,081.26**	**1,216.31**	**39,489.25**
Low Case								
Klam Falls	800.93	560.91	1.94	1,363.77	816.47	565.46	1.94	1,383.86
La Grande	483.98	323.73	78.55	886.26	489.31	324.93	78.55	892.79
Medford GTN	2,261.65	1,478.58	-	3,740.23	2,305.16	1,490.62	-	3,795.78
Medford NWP	1,016.10	664.39	-	1,680.49	1,035.65	669.82	-	1,705.48
Rosburg	801.58	722.48	15.11	1,539.17	820.83	729.42	15.13	1,565.38
OR Sub-Total	**5,364.24**	**3,750.09**	**95.60**	**9,209.93**	**5,467.41**	**3,780.25**	**95.62**	**9,343.28**
Spokane Both	**8,492.49**	**5,589.13**	**514.02**	**14,595.64**	**8,623.80**	**5,680.51**	**521.81**	**14,826.12**
Spokane GTN	1,172.12	770.91	70.90	2,013.93	1,190.48	783.52	71.97	2,045.97
Spokane NWP	4,981.50	3,276.39	301.32	8,559.21	5,059.52	3,329.95	305.89	8,695.37
WA/ID Sub-Total	**14,646.10**	**9,636.44**	**886.23**	**25,168.78**	**14,873.79**	**9,793.98**	**899.68**	**25,567.45**
Low Case Total	**20,010.35**	**13,386.53**	**981.83**	**34,378.70**	**20,341.21**	**13,574.23**	**995.30**	**34,910.73**

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

	2011/2012				2012/2013			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	909.66	602.39	1.60	1,513.65	928.26	605.75	1.59	1,535.60
La Grande	525.09	335.59	58.14	918.82	531.27	335.13	58.09	924.48
Medford GTN	2,576.91	1,589.31	-	4,166.22	2,641.76	1,597.23	-	4,238.98
Medford NWP	1,157.74	714.20	-	1,871.94	1,186.88	717.78	-	1,904.66
Rosburg	933.86	769.74	15.28	1,718.89	969.57	776.81	15.23	1,761.61
OR Sub-Total	**6,103.26**	**4,011.24**	**75.02**	**10,189.52**	**6,257.73**	**4,032.70**	**74.91**	**10,365.34**
Spokane Both	**9,539.17**	**6,215.68**	**541.39**	**16,296.24**	**9,645.37**	**6,340.65**	**545.48**	**16,531.51**
Spokane GTN	1,316.99	857.33	74.68	2,249.00	1,331.72	874.57	75.24	2,281.54
Spokane NWP	5,597.19	3,643.54	317.37	9,558.10	5,659.84	3,716.94	319.77	9,696.55
WA/ID Sub-Total	**16,453.34**	**10,716.55**	**933.44**	**28,103.33**	**16,636.94**	**10,932.16**	**940.49**	**28,509.59**
Base Case Total	**22,556.60**	**14,727.79**	**1,008.46**	**38,292.85**	**22,894.67**	**14,964.86**	**1,015.39**	**38,874.93**
High Case								
Klam Falls	971.90	625.67	2.16	1,599.73	1,005.25	633.85	2.15	1,641.25
La Grande	546.03	347.88	153.91	1,047.82	557.88	348.88	153.79	1,060.56
Medford GTN	2,762.34	1,659.76	-	4,422.10	2,875.47	1,678.47	-	4,553.95
Medford NWP	1,241.05	745.25	-	1,986.30	1,291.88	754.39	-	2,046.27
Rosburg	1,013.76	817.49	15.33	1,846.58	1,072.62	832.21	15.29	1,920.13
OR Sub-Total	**6,535.08**	**4,196.06**	**171.40**	**10,902.53**	**6,803.10**	**4,247.81**	**171.24**	**11,222.15**
Spokane Both	**10,171.28**	**6,665.50**	**620.56**	**17,457.34**	**10,452.28**	**6,886.45**	**628.26**	**17,966.99**
Spokane GTN	1,423.27	919.57	85.59	2,428.43	1,458.28	950.04	86.66	2,494.97
Spokane NWP	5,967.21	3,907.47	363.77	10,238.46	6,132.86	4,037.02	368.29	10,538.17
WA/ID Sub-Total	**17,561.76**	**11,492.54**	**1,069.93**	**30,124.22**	**18,043.41**	**11,873.50**	**1,083.21**	**31,000.13**
High Case Total	**24,096.83**	**15,688.60**	**1,241.32**	**41,026.75**	**24,846.52**	**16,121.31**	**1,254.45**	**42,222.28**
Low Case								
Klam Falls	830.90	569.76	1.95	1,402.61	837.12	569.86	1.94	1,408.91
La Grande	493.81	325.88	78.66	898.36	495.56	324.76	78.55	898.87
Medford GTN	2,355.42	1,503.86	-	3,859.28	2,377.45	1,502.20	-	3,879.66
Medford NWP	1,058.23	675.81	-	1,734.04	1,068.91	675.15	-	1,744.06
Rosburg	843.67	736.89	15.18	1,595.75	858.64	738.02	15.13	1,611.80
OR Sub-Total	**5,582.04**	**3,812.20**	**95.79**	**9,490.03**	**5,637.69**	**3,810.00**	**95.62**	**9,543.30**
Spokane Both	**8,705.29**	**5,779.86**	**526.84**	**15,011.99**	**8,679.87**	**5,826.71**	**528.17**	**15,034.75**
Spokane GTN	1,201.84	797.22	72.67	2,071.73	1,198.55	803.65	72.85	2,075.06
Spokane NWP	5,107.83	3,388.20	308.84	8,804.87	5,093.85	3,415.66	309.62	8,819.13
WA/ID Sub-Total	**15,014.96**	**9,965.29**	**908.35**	**25,888.59**	**14,972.27**	**10,046.02**	**910.64**	**25,928.93**
Low Case Total	**20,597.00**	**13,777.49**	**1,004.14**	**35,378.62**	**20,609.96**	**13,856.02**	**1,006.26**	**35,472.23**

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

	2013/2014				2014/2015			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	950.09	611.88	1.59	1,563.56	971.92	619.30	1.59	1,592.81
La Grande	538.24	335.83	58.09	932.15	546.86	336.72	58.09	941.66
Medford GTN	2,715.47	1,610.56	-	4,326.03	2,791.34	1,628.74	-	4,420.07
Medford NWP	1,219.99	723.93	-	1,943.92	1,254.08	732.14	-	1,986.22
Rosburg	1,007.64	786.98	15.23	1,809.85	1,047.29	799.94	15.23	1,862.46
OR Sub-Total	**6,431.43**	**4,069.17**	**74.91**	**10,575.51**	**6,611.48**	**4,116.84**	**74.91**	**10,803.23**
Spokane Both	**9,825.79**	**6,495.56**	**553.03**	**16,874.38**	**9,862.20**	**6,648.76**	**561.00**	**17,071.96**
Spokane GTN	1,348.59	895.94	76.28	2,320.80	1,363.70	917.25	77.38	2,358.33
Spokane NWP	5,728.47	3,807.75	324.19	9,860.41	5,788.83	3,897.73	328.86	10,015.42
WA/ID Sub-Total	**16,902.84**	**11,199.25**	**953.50**	**29,055.59**	**17,014.74**	**11,463.74**	**967.24**	**29,445.71**
Base Case Total	**23,334.27**	**15,268.42**	**1,028.40**	**39,631.10**	**23,626.22**	**15,580.58**	**1,042.15**	**40,248.94**
High Case								
Klam Falls	1,042.14	645.18	2.15	1,689.46	1,076.09	656.93	2.15	1,735.17
La Grande	571.36	351.13	153.79	1,076.29	584.85	352.88	153.79	1,091.53
Medford GTN	2,997.84	1,708.19	-	4,706.03	3,115.03	1,737.33	-	4,852.36
Medford NWP	1,346.86	767.79	-	2,114.64	1,399.51	780.93	-	2,180.44
Rosburg	1,134.62	851.58	15.30	2,001.51	1,194.72	872.24	15.30	2,082.26
OR Sub-Total	**7,092.81**	**4,323.88**	**171.25**	**11,587.94**	**7,370.20**	**4,400.31**	**171.25**	**11,941.75**
Spokane Both	**10,762.81**	**7,140.88**	**641.34**	**18,545.03**	**11,037.78**	**7,376.36**	**653.74**	**19,067.88**
Spokane GTN	1,503.76	985.16	88.46	2,577.37	1,533.58	1,017.65	90.17	2,641.40
Spokane NWP	6,315.84	4,186.19	375.96	10,877.98	6,477.97	4,324.25	383.23	11,185.45
WA/ID Sub-Total	**18,582.41**	**12,312.22**	**1,105.76**	**32,000.39**	**19,049.33**	**12,718.26**	**1,127.14**	**32,894.73**
High Case Total	**25,675.22**	**16,636.10**	**1,277.00**	**43,588.33**	**26,419.53**	**17,118.57**	**1,298.39**	**44,836.48**
Low Case								
Klam Falls	846.56	572.14	1.94	1,420.63	856.00	575.10	1.94	1,433.04
La Grande	498.20	324.73	78.55	901.48	501.86	324.67	78.55	905.08
Medford GTN	2,412.25	1,507.82	-	3,920.07	2,447.26	1,514.81	-	3,962.06
Medford NWP	1,083.76	677.64	-	1,761.41	1,099.49	680.86	-	1,780.35
Rosburg	876.28	742.50	15.13	1,633.92	895.00	748.03	15.13	1,658.16
OR Sub-Total	**5,717.05**	**3,824.84**	**95.62**	**9,637.50**	**5,799.60**	**3,843.47**	**95.62**	**9,738.69**
Spokane Both	**8,689.03**	**5,900.46**	**532.52**	**15,122.00**	**8,725.53**	**5,973.80**	**536.48**	**15,235.81**
Spokane GTN	1,200.04	813.75	73.45	2,087.23	1,205.29	823.98	74.00	2,103.27
Spokane NWP	5,118.17	3,458.56	312.17	8,888.90	5,122.51	3,502.06	314.49	8,939.06
WA/ID Sub-Total	**15,007.23**	**10,172.76**	**918.14**	**26,098.13**	**15,053.33**	**10,299.83**	**924.97**	**26,278.14**
Low Case Total	**20,724.28**	**13,997.60**	**1,013.76**	**35,735.63**	**20,852.93**	**14,143.31**	**1,020.59**	**36,016.83**

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

	2015/2016				2016/2017			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	998.05	631.98	1.60	1,631.63	1,016.07	639.74	1.59	1,657.41
La Grande	558.05	339.64	58.14	955.83	564.79	340.41	58.09	963.29
Medford GTN	2,885.20	1,657.50	-	4,542.70	2,947.56	1,674.17	-	4,621.74
Medford NWP	1,296.25	745.11	-	2,041.36	1,324.27	752.65	-	2,076.92
Rosburg	1,093.85	819.85	15.28	1,928.98	1,130.56	832.25	15.23	1,978.04
OR Sub-Total	**6,831.40**	**4,194.08**	**75.02**	**11,100.50**	**6,983.25**	**4,239.23**	**74.91**	**11,297.39**
Spokane Both	**10,070.40**	**6,836.08**	**570.96**	**17,477.44**	**10,191.07**	**6,957.97**	**573.80**	**17,722.83**
Spokane GTN	1,391.02	942.91	78.75	2,412.69	1,407.88	959.72	79.14	2,446.75
Spokane NWP	5,911.87	4,007.56	334.70	10,254.12	5,983.51	4,079.03	336.36	10,398.90
WA/ID Sub-Total	**17,373.29**	**11,786.54**	**984.42**	**30,144.25**	**17,582.45**	**11,996.72**	**989.31**	**30,568.48**
Base Case Total	**24,204.69**	**15,980.62**	**1,059.44**	**41,244.75**	**24,565.71**	**16,235.95**	**1,064.21**	**41,865.87**
High Case								
Klam Falls	1,115.50	675.32	2.16	1,792.98	1,143.38	686.93	2.15	1,832.46
La Grande	601.56	357.03	153.91	1,112.50	611.79	357.96	153.79	1,123.55
Medford GTN	3,253.38	1,779.93	-	5,033.31	3,349.46	1,805.91	-	5,155.37
Medford NWP	1,461.66	800.12	-	2,261.78	1,504.83	811.84	-	2,316.67
Rosburg	1,265.05	901.54	15.35	2,181.94	1,320.18	920.76	15.29	2,256.23
OR Sub-Total	**7,697.15**	**4,513.94**	**171.42**	**12,382.51**	**7,929.65**	**4,583.39**	**171.24**	**12,684.27**
Spokane Both	**11,374.24**	**7,653.64**	**668.83**	**19,696.71**	**11,588.07**	**7,839.88**	**673.69**	**20,101.64**
Spokane GTN	1,572.70	1,055.82	92.25	2,720.78	1,600.57	1,081.37	92.92	2,774.86
Spokane NWP	6,676.19	4,486.82	392.07	11,555.07	6,802.44	4,596.02	394.92	11,793.38
WA/ID Sub-Total	**19,623.13**	**13,196.28**	**1,153.15**	**33,972.56**	**19,991.08**	**13,517.26**	**1,161.53**	**34,669.88**
High Case Total	**27,320.28**	**17,710.22**	**1,324.57**	**46,355.07**	**27,920.73**	**18,100.65**	**1,332.77**	**47,354.15**
Low Case								
Klam Falls	869.17	582.29	1.95	1,453.40	875.13	585.10	1.94	1,462.17
La Grande	507.55	326.69	78.66	912.91	509.53	326.48	78.55	914.56
Medford GTN	2,497.00	1,530.23	-	4,027.23	2,519.46	1,534.79	-	4,054.25
Medford NWP	1,121.84	687.88	-	1,809.73	1,131.93	690.03	-	1,821.96
Rosburg	918.96	759.46	15.18	1,693.60	934.39	764.14	15.13	1,713.66
OR Sub-Total	**5,914.53**	**3,886.55**	**95.79**	**9,896.87**	**5,970.43**	**3,900.55**	**95.62**	**9,966.60**
Spokane Both	**8,813.28**	**6,076.77**	**542.33**	**15,432.38**	**8,822.85**	**6,121.93**	**542.97**	**15,487.75**
Spokane GTN	1,217.63	838.18	74.80	2,130.61	1,219.16	844.41	74.89	2,138.46
Spokane NWP	5,174.93	3,562.45	317.92	9,055.30	5,181.44	3,588.94	318.29	9,088.68
WA/ID Sub-Total	**15,205.84**	**10,477.40**	**935.05**	**26,618.29**	**15,223.45**	**10,555.28**	**936.15**	**26,714.88**
Low Case Total	**21,120.37**	**14,363.95**	**1,030.84**	**36,515.15**	**21,193.88**	**14,455.83**	**1,031.77**	**36,681.48**

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

	2017/2018				2018/2019			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	1,038.13	648.88	1.59	1,688.60	1,059.46	657.70	1.59	1,718.75
La Grande	572.99	342.03	58.09	973.11	580.41	343.56	58.09	982.06
Medford GTN	3,023.38	1,697.47	-	4,720.85	3,098.48	1,720.03	-	4,818.51
Medford NWP	1,358.33	763.17	-	2,121.50	1,392.07	773.35	-	2,165.42
Rosburg	1,171.89	846.62	15.23	2,033.74	1,212.82	860.26	15.23	2,088.31
OR Sub-Total	**7,164.73**	**4,298.17**	**74.91**	**11,537.80**	**7,343.25**	**4,354.89**	**74.91**	**11,773.05**
Spokane Both	**10,387.89**	**7,111.67**	**579.35**	**18,078.91**	**10,590.60**	**7,265.06**	**586.90**	**18,442.56**
Spokane GTN	1,435.03	980.92	79.91	2,495.86	1,462.99	1,002.08	80.95	2,546.02
Spokane NWP	6,098.88	4,169.15	339.62	10,607.66	6,217.71	4,259.10	344.04	10,820.85
WA/ID Sub-Total	**17,921.80**	**12,261.75**	**998.88**	**31,182.43**	**18,271.30**	**12,526.24**	**1,011.90**	**31,809.43**
Base Case Total	**25,086.53**	**16,559.91**	**1,073.79**	**42,720.23**	**25,614.55**	**16,881.13**	**1,086.80**	**43,582.48**
High Case								
Klam Falls	1,173.43	699.01	2.15	1,874.59	1,205.30	711.81	2.15	1,919.25
La Grande	622.49	359.36	153.79	1,135.65	633.39	361.39	153.79	1,148.57
Medford GTN	3,430.20	1,830.06	-	5,260.26	3,568.26	1,869.38	-	5,437.64
Medford NWP	1,541.10	822.74	-	2,363.84	1,603.13	840.45	-	2,443.58
Rosburg	1,379.41	940.50	15.28	2,335.19	1,440.92	960.70	15.27	2,416.89
OR Sub-Total	**8,146.64**	**4,651.66**	**171.22**	**12,969.52**	**8,451.00**	**4,743.73**	**171.21**	**13,365.94**
Spokane Both	**11,867.77**	**8,052.40**	**682.13**	**20,602.30**	**12,180.76**	**8,280.14**	**693.74**	**21,154.64**
Spokane GTN	1,639.15	1,110.68	94.09	2,843.91	1,682.32	1,142.09	95.69	2,920.10
Spokane NWP	6,966.40	4,720.62	399.87	12,086.89	7,149.88	4,854.14	406.68	12,410.69
WA/ID Sub-Total	**20,473.32**	**13,883.69**	**1,176.09**	**35,533.10**	**21,012.95**	**14,276.37**	**1,196.11**	**36,485.43**
High Case Total	**28,619.96**	**18,535.36**	**1,347.30**	**48,502.62**	**29,463.95**	**19,020.10**	**1,367.32**	**49,851.37**
Low Case								
Klam Falls	884.69	589.65	1.94	1,476.28	893.88	594.04	1.94	1,489.85
La Grande	512.98	327.25	78.55	918.79	516.07	327.96	78.55	922.58
Medford GTN	2,554.43	1,546.24	-	4,100.67	2,589.07	1,557.32	-	4,146.39
Medford NWP	1,147.64	693.87	-	1,841.51	1,163.20	698.77	-	1,861.97
Rosburg	953.92	771.36	15.13	1,740.40	973.26	778.14	15.13	1,766.53
OR Sub-Total	**6,053.65**	**3,928.37**	**95.62**	**10,077.64**	**6,135.47**	**3,956.23**	**95.62**	**10,187.32**
Spokane Both	**8,899.07**	**6,195.58**	**546.36**	**15,641.01**	**8,978.17**	**6,269.02**	**550.35**	**15,797.54**
Spokane GTN	1,229.67	854.57	75.36	2,159.60	1,240.58	864.70	75.91	2,181.19
Spokane NWP	5,226.13	3,632.14	320.28	9,178.55	5,272.49	3,675.21	322.62	9,270.32
WA/ID Sub-Total	**15,354.87**	**10,682.29**	**942.01**	**26,979.16**	**15,491.25**	**10,808.93**	**948.88**	**27,249.05**
Low Case Total	**21,408.52**	**14,610.66**	**1,037.63**	**37,056.80**	**21,626.72**	**14,765.16**	**1,044.50**	**37,436.37**

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

	2019/2020				2020/2021			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	1,085.74	669.33	1.60	1,756.66	1,103.02	674.36	1.59	1,778.96
La Grande	590.19	346.17	58.14	994.51	595.73	346.53	58.09	1,000.35
Medford GTN	3,190.98	1,751.80	-	4,942.78	3,246.93	1,764.82	-	5,011.75
Medford NWP	1,433.63	787.68	-	2,221.30	1,458.76	793.57	-	2,252.33
Rosburg	1,260.39	878.10	15.28	2,153.77	1,295.48	886.18	15.23	2,196.89
OR Sub-Total	**7,560.93**	**4,433.08**	**75.02**	**12,069.03**	**7,699.92**	**4,465.45**	**74.91**	**12,240.28**
Spokane Both	**10,853.28**	**7,458.48**	**592.22**	**18,903.99**	**11,027.27**	**7,582.90**	**595.29**	**19,205.46**
Spokane GTN	1,499.23	1,028.76	81.69	2,609.67	1,523.21	1,045.92	82.11	2,651.25
Spokane NWP	6,371.74	4,372.50	347.17	11,091.41	6,473.69	4,445.46	348.96	11,268.11
WA/ID Sub-Total	**18,724.25**	**12,859.75**	**1,021.08**	**32,605.07**	**19,024.17**	**13,074.29**	**1,026.36**	**33,124.82**
Base Case Total	**26,285.18**	**17,292.83**	**1,096.10**	**44,674.10**	**26,724.09**	**17,539.74**	**1,101.27**	**45,365.11**
High Case								
Klam Falls	1,243.29	727.58	2.16	1,973.02	1,269.43	735.04	2.15	2,006.62
La Grande	646.87	364.49	153.91	1,165.27	655.23	364.79	153.79	1,173.82
Medford GTN	3,698.92	1,912.29	-	5,611.21	3,784.12	1,932.34	-	5,716.47
Medford NWP	1,661.83	859.78	-	2,521.61	1,700.11	868.83	-	2,568.95
Rosburg	1,509.68	985.53	15.31	2,510.52	1,562.36	997.87	15.25	2,575.48
OR Sub-Total	**8,760.58**	**4,849.67**	**171.38**	**13,781.64**	**8,971.25**	**4,898.88**	**171.20**	**14,041.33**
Spokane Both	**12,566.73**	**8,553.70**	**701.34**	**21,821.77**	**12,844.25**	**8,741.75**	**706.45**	**22,292.45**
Spokane GTN	1,735.57	1,179.83	96.74	3,012.13	1,773.83	1,205.76	97.44	3,077.04
Spokane NWP	7,376.18	5,014.53	411.13	12,801.84	7,538.82	5,124.79	414.13	13,077.73
WA/ID Sub-Total	**21,678.48**	**14,748.05**	**1,209.21**	**37,635.74**	**22,156.90**	**15,072.30**	**1,218.02**	**38,447.22**
High Case Total	**30,439.06**	**19,597.73**	**1,380.59**	**51,417.38**	**31,128.15**	**19,971.18**	**1,389.22**	**52,488.55**
Low Case								
Klam Falls	907.11	598.71	1.95	1,507.77	912.79	599.99	1.94	1,514.72
La Grande	521.06	329.68	78.66	929.41	522.50	329.31	78.55	930.36
Medford GTN	2,638.10	1,576.40	-	4,214.50	2,657.63	1,579.31	-	4,236.95
Medford NWP	1,185.23	707.26	-	1,892.49	1,194.01	708.50	-	1,902.51
Rosburg	997.71	787.37	15.18	1,800.26	1,012.41	789.84	15.13	1,817.38
OR Sub-Total	**6,249.21**	**3,999.42**	**95.79**	**10,344.42**	**6,299.34**	**4,006.96**	**95.62**	**10,401.92**
Spokane Both	**9,103.92**	**6,375.04**	**553.59**	**16,032.55**	**9,151.75**	**6,421.46**	**554.72**	**16,127.94**
Spokane GTN	1,257.94	879.32	76.36	2,213.61	1,264.52	885.72	76.51	2,226.76
Spokane NWP	5,346.26	3,737.38	324.52	9,408.16	5,374.25	3,764.62	325.18	9,464.05
WA/ID Sub-Total	**15,708.12**	**10,991.74**	**954.46**	**27,654.32**	**15,790.53**	**11,071.80**	**956.42**	**27,818.75**
Low Case Total	**21,957.33**	**14,991.16**	**1,050.25**	**37,998.74**	**22,089.86**	**15,078.76**	**1,052.04**	**38,220.67**

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

	2021/2022				2022/2023			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	1,124.98	682.38	1.59	1,808.95	1,146.57	690.83	1.59	1,838.99
La Grande	602.84	347.93	58.09	1,008.86	609.25	349.42	58.09	1,016.75
Medford GTN	3,318.22	1,786.37	-	5,104.58	3,388.30	1,808.71	-	5,197.01
Medford NWP	1,490.79	803.30	-	2,294.09	1,522.28	813.38	-	2,335.65
Rosburg	1,336.54	898.59	15.23	2,250.36	1,377.23	911.53	15.23	2,303.98
OR Sub-Total	**7,873.37**	**4,518.56**	**74.91**	**12,466.84**	**8,043.62**	**4,573.86**	**74.91**	**12,692.39**
Spokane Both	**11,259.63**	**7,742.90**	**599.70**	**19,602.23**	**11,501.64**	**7,902.69**	**605.25**	**20,009.58**
Spokane GTN	1,555.27	1,067.99	82.72	2,705.97	1,588.65	1,090.03	83.48	2,762.16
Spokane NWP	6,609.90	4,539.27	351.55	11,500.72	6,751.77	4,632.97	354.80	11,739.54
WA/ID Sub-Total	**19,424.80**	**13,350.16**	**1,033.96**	**33,808.93**	**19,842.06**	**13,625.68**	**1,043.54**	**34,511.28**
Base Case Total	**27,298.17**	**17,868.73**	**1,108.87**	**46,275.77**	**27,885.68**	**18,199.54**	**1,118.45**	**47,203.67**
High Case								
Klam Falls	1,301.15	746.43	2.15	2,049.73	1,332.13	757.92	2.15	2,092.20
La Grande	665.39	366.58	153.79	1,185.76	673.79	368.16	153.79	1,195.74
Medford GTN	3,888.08	1,963.14	-	5,851.22	3,986.87	1,993.50	-	5,980.36
Medford NWP	1,746.82	882.72	-	2,629.53	1,791.20	896.40	-	2,687.60
Rosburg	1,622.79	1,015.93	15.25	2,653.96	1,681.26	1,034.09	15.24	2,730.58
OR Sub-Total	**9,224.22**	**4,974.79**	**171.19**	**14,370.21**	**9,465.24**	**5,050.06**	**171.18**	**14,686.48**
Spokane Both	**13,199.09**	**8,975.75**	**713.26**	**22,888.09**	**13,550.13**	**9,202.34**	**721.83**	**23,474.30**
Spokane GTN	1,822.78	1,238.04	98.38	3,159.20	1,871.19	1,269.29	99.56	3,240.05
Spokane NWP	7,746.82	5,261.98	418.12	13,426.92	7,952.61	5,394.83	423.12	13,770.56
WA/ID Sub-Total	**22,768.69**	**15,475.77**	**1,229.76**	**39,474.21**	**23,373.93**	**15,866.47**	**1,244.51**	**40,484.91**
High Case Total	**31,992.91**	**20,450.56**	**1,400.95**	**53,844.42**	**32,839.17**	**20,916.52**	**1,415.70**	**55,171.39**
Low Case								
Klam Falls	922.23	603.66	1.94	1,527.83	929.81	606.91	1.94	1,538.65
La Grande	525.34	329.90	78.55	933.79	527.04	330.01	78.55	935.59
Medford GTN	2,689.76	1,585.48	-	4,275.24	2,717.01	1,593.97	-	4,310.98
Medford NWP	1,208.44	713.04	-	1,921.48	1,220.68	716.90	-	1,937.58
Rosburg	1,031.70	795.84	15.13	1,842.67	1,049.53	801.17	15.12	1,865.82
OR Sub-Total	**6,377.47**	**4,027.92**	**95.62**	**10,501.01**	**6,444.06**	**4,048.96**	**95.61**	**10,588.63**
Spokane Both	**9,243.05**	**6,496.94**	**556.80**	**16,296.78**	**9,326.24**	**6,562.78**	**559.67**	**16,448.69**
Spokane GTN	1,277.12	896.13	76.80	2,250.05	1,288.59	905.22	77.20	2,271.00
Spokane NWP	5,427.77	3,808.88	326.40	9,563.05	5,476.54	3,847.50	328.08	9,652.12
WA/ID Sub-Total	**15,947.93**	**11,201.96**	**959.99**	**28,109.89**	**16,091.37**	**11,315.49**	**964.95**	**28,371.81**
Low Case Total	**22,325.41**	**15,229.88**	**1,055.61**	**38,610.90**	**22,535.43**	**15,364.45**	**1,060.55**	**38,960.44**

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

	2023/2024				2024/2025			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	1,172.48	702.48	1.60	1,876.56	1,188.55	709.56	1.59	1,899.71
La Grande	617.31	352.05	58.14	1,027.51	621.31	352.49	58.09	1,031.88
Medford GTN	3,475.63	1,840.58	-	5,316.21	3,523.21	1,855.34	-	5,378.54
Medford NWP	1,561.51	827.74	-	2,389.25	1,582.89	834.40	-	2,417.29
Rosburg	1,425.15	928.97	15.28	2,369.39	1,459.33	939.15	15.23	2,413.71
OR Sub-Total	**8,252.08**	**4,651.82**	**75.02**	**12,978.92**	**8,375.29**	**4,690.94**	**74.91**	**13,141.13**
Spokane Both	**11,800.31**	**8,101.26**	**610.22**	**20,511.79**	**11,991.38**	**8,226.55**	**613.22**	**20,831.16**
Spokane GTN	1,629.85	1,117.42	84.17	2,831.44	1,656.20	1,134.70	84.58	2,875.48
Spokane NWP	6,926.90	4,749.39	357.71	12,034.00	7,038.86	4,822.86	359.48	12,221.19
WA/ID Sub-Total	**20,357.06**	**13,968.07**	**1,052.10**	**35,377.23**	**20,686.44**	**14,184.11**	**1,057.28**	**35,927.83**
Base Case Total	**28,609.14**	**18,619.89**	**1,127.12**	**48,356.16**	**29,061.73**	**18,875.05**	**1,132.19**	**49,068.96**
High Case								
Klam Falls	1,367.41	773.11	2.16	2,142.68	1,390.34	783.39	2.15	2,175.88
La Grande	684.18	370.88	153.91	1,208.97	689.41	371.37	153.79	1,214.57
Medford GTN	4,105.71	2,034.75	-	6,140.46	4,174.37	2,056.89	-	6,231.26
Medford NWP	1,844.59	914.97	-	2,759.56	1,875.44	924.96	-	2,800.40
Rosburg	1,748.75	1,057.46	15.28	2,821.49	1,798.24	1,072.65	15.22	2,886.11
OR Sub-Total	**9,750.64**	**5,151.18**	**171.34**	**15,073.16**	**9,927.80**	**5,209.26**	**171.16**	**15,308.21**
Spokane Both	**13,980.67**	**9,473.34**	**728.89**	**24,182.91**	**14,268.64**	**9,656.03**	**734.35**	**24,659.02**
Spokane GTN	1,930.59	1,306.67	100.47	3,337.73	1,970.30	1,331.87	101.15	3,403.32
Spokane NWP	8,205.04	5,553.72	426.99	14,185.75	8,373.80	5,660.83	429.89	14,464.53
WA/ID Sub-Total	**24,116.30**	**16,333.74**	**1,256.35**	**41,706.39**	**24,612.75**	**16,648.74**	**1,265.38**	**42,526.87**
High Case Total	**33,866.95**	**21,484.91**	**1,427.69**	**56,779.55**	**34,540.54**	**21,858.00**	**1,436.54**	**57,835.08**
Low Case								
Klam Falls	941.07	612.55	1.95	1,555.57	944.28	614.03	1.94	1,560.25
La Grande	530.19	331.16	78.66	940.02	529.82	330.46	78.55	938.83
Medford GTN	2,759.69	1,610.47	-	4,370.16	2,769.89	1,611.64	-	4,381.53
Medford NWP	1,239.86	724.36	-	1,964.21	1,244.44	724.92	-	1,969.36
Rosburg	1,072.23	810.12	15.16	1,897.51	1,084.72	812.49	15.10	1,912.31
OR Sub-Total	**6,543.04**	**4,088.67**	**95.77**	**10,727.48**	**6,573.14**	**4,093.54**	**95.59**	**10,762.28**
Spokane Both	**9,450.13**	**6,660.95**	**562.52**	**16,673.59**	**9,487.16**	**6,698.63**	**563.19**	**16,748.98**
Spokane GTN	1,305.69	918.76	77.59	2,302.03	1,310.79	923.95	77.68	2,312.42
Spokane NWP	5,549.20	3,905.07	329.75	9,784.03	5,570.87	3,927.18	330.15	9,828.20
WA/ID Sub-Total	**16,305.01**	**11,484.78**	**969.85**	**28,759.65**	**16,368.82**	**11,549.76**	**971.02**	**28,889.60**
Low Case Total	**22,848.05**	**15,573.45**	**1,065.62**	**39,487.13**	**22,941.96**	**15,643.30**	**1,066.61**	**39,651.88**

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

	2025/2026				2026/2027			
Area	**Residential**	**Commercial**	**Firm Industrial**	**Total**	**Residential**	**Commercial**	**Firm Industrial**	**Total**
Expected Case								
Klam Falls	1,210.41	718.98	1.59	1,930.98	1,232.50	728.20	1.59	1,962.29
La Grande	626.56	354.02	58.09	1,038.67	632.22	355.56	58.09	1,045.87
Medford GTN	3,589.93	1,878.83	-	5,468.76	3,654.17	1,902.78	-	5,556.95
Medford NWP	1,612.87	845.00	-	2,457.86	1,641.73	855.77	-	2,497.49
Rosburg	1,501.43	953.19	15.23	2,469.84	1,543.45	966.85	15.23	2,525.53
OR Sub-Total	**8,541.19**	**4,750.01**	**74.91**	**13,366.11**	**8,704.06**	**4,809.16**	**74.91**	**13,588.13**
Spokane Both	**12,233.24**	**8,390.51**	**617.63**	**21,241.38**	**12,470.65**	**8,554.48**	**623.19**	**21,648.31**
Spokane GTN	1,689.55	1,157.32	85.19	2,932.06	1,722.30	1,179.93	85.96	2,988.19
Spokane NWP	7,180.64	4,919.00	362.06	12,461.69	7,319.81	5,015.14	365.32	12,700.26
WA/ID Sub-Total	**21,103.43**	**14,466.83**	**1,064.88**	**36,635.14**	**21,512.75**	**14,749.55**	**1,074.46**	**37,336.76**
Base Case Total	**29,644.61**	**19,216.84**	**1,139.79**	**50,001.24**	**30,216.81**	**19,558.71**	**1,149.36**	**50,924.89**
High Case								
Klam Falls	1,422.14	796.85	2.15	2,221.15	1,454.71	809.94	2.15	2,266.79
La Grande	697.21	373.29	153.79	1,224.30	705.00	375.34	153.79	1,234.13
Medford GTN	4,272.44	2,090.73	-	6,363.17	4,364.14	2,124.66	-	6,488.81
Medford NWP	1,919.50	940.20	-	2,859.70	1,960.70	955.45	-	2,916.15
Rosburg	1,860.40	1,093.22	15.21	2,968.84	1,921.32	1,113.01	15.21	3,049.54
OR Sub-Total	**10,171.69**	**5,294.29**	**171.16**	**15,637.14**	**10,405.88**	**5,378.40**	**171.15**	**15,955.42**
Spokane Both	**14,642.42**	**9,894.13**	**741.24**	**25,277.79**	**14,998.50**	**10,129.47**	**750.30**	**25,878.27**
Spokane GTN	2,021.85	1,364.71	102.07	3,488.64	2,070.97	1,397.18	103.28	3,571.42
Spokane NWP	8,592.91	5,800.43	433.80	14,827.14	8,801.65	5,938.41	438.94	15,179.00
WA/ID Sub-Total	**25,257.19**	**17,059.28**	**1,277.11**	**43,593.58**	**25,871.12**	**17,465.06**	**1,292.52**	**44,628.70**
High Case Total	**35,428.88**	**22,353.57**	**1,448.26**	**59,230.72**	**36,277.00**	**22,843.46**	**1,463.67**	**60,584.12**
Low Case								
Klam Falls	952.45	617.53	1.94	1,571.92	960.26	621.25	1.93	1,583.44
La Grande	531.01	330.53	78.55	940.09	532.49	330.78	78.55	941.81
Medford GTN	2,795.13	1,620.53	-	4,415.66	2,820.67	1,630.05	-	4,450.72
Medford NWP	1,255.78	728.95	-	1,984.73	1,267.25	733.24	-	2,000.49
Rosburg	1,102.95	818.25	15.10	1,936.30	1,121.46	824.21	15.09	1,960.77
OR Sub-Total	**6,637.32**	**4,115.80**	**95.58**	**10,848.70**	**6,702.13**	**4,139.52**	**95.57**	**10,937.22**
Spokane Both	**9,568.92**	**6,768.00**	**565.12**	**16,902.03**	**9,650.95**	**6,839.12**	**567.56**	**17,057.63**
Spokane GTN	1,322.06	933.52	77.95	2,333.53	1,333.38	943.33	78.28	2,354.99
Spokane NWP	5,618.79	3,967.87	331.27	9,917.94	5,666.88	4,009.58	332.71	10,009.17
WA/ID Sub-Total	**16,509.77**	**11,669.39**	**974.34**	**29,153.50**	**16,651.21**	**11,792.04**	**978.55**	**29,421.79**
Low Case Total	**23,147.10**	**15,785.19**	**1,069.92**	**40,002.21**	**23,353.34**	**15,931.56**	**1,074.12**	**40,359.01**

Appendix 2.4 D
Peak Day Demand - 11/2007 - 10/2027 (Net of DSM Savings)
Peak Day = February 15

Gas Year	Klam Falls	La Grande	Medford GTN	Medford NWP	Rosburg	Oregon	Spokane Both	Spokane GTN	Spokane NWP	WA/ID	Total
Base											
2007-2008	10.76	9.72	26.84	12.06	12.87	**72.25**	152.66	21.06	89.50	**263.22**	**335.46**
2008-2009	10.97	9.82	27.42	12.32	13.19	**73.71**	156.11	21.54	91.53	**269.18**	**342.89**
2009-2010	11.21	9.91	28.07	12.61	13.55	**75.35**	159.79	22.05	93.70	**275.54**	**350.89**
2010-2011	11.48	10.01	28.71	12.90	13.94	**77.04**	163.58	22.57	95.94	**282.09**	**359.14**
2011-2012	11.72	10.11	29.44	13.23	14.41	**78.92**	167.30	23.09	98.13	**288.51**	**367.43**
2012-2013	11.95	10.23	30.13	13.54	14.85	**80.69**	170.87	23.58	100.23	**294.69**	**375.38**
2013-2014	12.18	10.33	30.80	13.84	15.28	**82.44**	174.37	24.07	102.29	**300.72**	**383.16**
2014-2015	12.43	10.46	31.51	14.16	15.76	**84.31**	177.81	24.55	104.32	**306.68**	**390.99**
2015-2016	12.68	10.60	32.24	14.49	16.26	**86.27**	181.31	25.03	106.38	**312.72**	**398.99**
2016-2017	12.94	10.72	32.98	14.82	16.76	**88.22**	184.82	25.52	108.45	**318.79**	**407.01**
2017-2018	13.19	10.84	33.69	15.14	17.23	**90.08**	188.54	26.03	110.63	**325.20**	**415.28**
2018-2019	13.42	10.95	34.39	15.45	17.70	**91.91**	192.32	26.55	112.85	**331.72**	**423.63**
2019-2020	13.67	11.07	35.10	15.77	18.18	**93.79**	196.27	27.10	115.16	**338.52**	**432.31**
2020-2021	13.90	11.17	35.77	16.08	18.63	**95.55**	200.33	27.66	117.55	**345.54**	**441.09**
2021-2022	14.14	11.27	36.44	16.37	19.10	**97.33**	204.48	28.23	119.98	**352.69**	**450.01**
2022-2023	14.38	11.36	37.10	16.67	19.56	**99.07**	208.73	28.82	122.47	**360.01**	**459.08**
2023-2024	14.61	11.46	37.75	16.96	20.03	**100.81**	212.96	29.40	124.95	**367.30**	**468.11**
2024-2025	14.86	11.55	38.39	17.25	20.51	**102.56**	217.22	29.99	127.44	**374.65**	**477.21**
2025-2026	15.11	11.62	39.04	17.54	20.99	**104.30**	221.42	30.57	129.91	**381.90**	**486.20**
2026-2027	15.35	11.72	39.66	17.82	21.47	**106.02**	225.59	31.14	132.35	**389.09**	**495.11**
High											
2007-2008	10.84	9.86	27.06	12.16	13.07	**72.99**	155.95	21.51	91.43	**268.89**	**341.87**
2008-2009	10.99	9.84	27.48	12.35	13.33	**73.99**	158.95	21.93	93.20	**274.08**	**348.07**
2009-2010	11.52	10.15	28.91	12.99	14.09	**77.65**	167.59	23.12	98.28	**288.99**	**366.64**
2010-2011	12.01	10.37	30.09	13.52	14.79	**80.79**	175.14	24.17	102.72	**302.02**	**382.81**
2011-2012	12.47	10.60	31.40	14.10	15.59	**84.17**	181.09	25.20	106.21	**312.50**	**396.67**
2012-2013	12.85	10.81	32.54	14.62	16.32	**87.14**	187.41	26.03	109.93	**323.37**	**410.51**
2013-2014	13.26	11.00	33.67	15.13	17.04	**90.10**	193.52	26.90	113.52	**333.95**	**424.05**
2014-2015	13.64	11.21	34.76	15.62	17.76	**92.99**	199.08	27.59	116.79	**343.45**	**436.44**
2015-2016	14.03	11.43	35.91	16.13	18.54	**96.05**	204.78	28.29	120.14	**353.21**	**449.26**
2016-2017	14.40	11.59	36.96	16.61	19.26	**98.83**	209.99	28.99	123.21	**362.19**	**461.02**
2017-2018	14.72	11.74	37.90	17.03	19.91	**101.31**	215.05	29.69	126.17	**370.91**	**472.22**
2018-2019	15.07	11.88	38.95	17.50	20.62	**104.03**	220.80	30.48	129.55	**380.83**	**484.86**
2019-2020	15.43	12.05	39.98	17.97	21.32	**106.76**	226.65	31.29	132.97	**390.91**	**497.66**
2020-2021	15.76	12.18	40.92	18.39	21.96	**109.20**	232.54	32.10	136.43	**401.06**	**510.27**
2021-2022	16.10	12.32	41.87	18.82	22.64	**111.75**	238.77	32.96	140.08	**411.80**	**523.55**
2022-2023	16.42	12.44	42.78	19.23	23.29	**114.15**	244.72	33.78	143.57	**422.06**	**536.22**
2023-2024	16.74	12.55	43.67	19.62	23.95	**116.53**	250.78	34.62	147.12	**432.51**	**549.04**
2024-2025	17.07	12.65	44.52	20.01	24.60	**118.84**	256.68	35.43	150.57	**442.67**	**561.51**
2025-2026	17.42	12.76	45.46	20.43	25.31	**121.38**	262.92	36.29	154.22	**453.43**	**574.81**
2026-2027	17.78	12.88	46.33	20.82	25.99	**123.80**	269.08	37.14	157.84	**464.05**	**587.86**
Low											
2007-2008	10.58	9.69	26.50	11.91	12.79	**71.47**	151.44	20.89	88.79	**261.11**	**332.59**
2008-2009	10.33	9.41	25.93	11.65	12.54	**69.87**	148.15	20.44	86.87	**255.47**	**325.33**
2009-2010	10.48	9.49	26.34	11.83	12.75	**70.90**	150.59	20.78	88.31	**259.69**	**330.58**
2010-2011	10.66	9.58	26.77	12.03	13.01	**72.05**	153.28	21.15	89.90	**264.33**	**336.39**
2011-2012	10.77	9.62	27.11	12.18	13.23	**72.92**	154.57	21.33	90.66	**266.56**	**339.48**
2012-2013	10.87	9.68	27.42	12.32	13.43	**73.72**	155.61	21.48	91.29	**268.38**	**342.10**
2013-2014	10.97	9.72	27.73	12.46	13.64	**74.52**	156.55	21.61	92.06	**270.22**	**344.74**
2014-2015	11.08	9.77	28.05	12.61	13.86	**75.37**	157.83	21.79	92.61	**272.22**	**347.59**
2015-2016	11.20	9.83	28.39	12.76	14.10	**76.28**	159.24	21.99	93.45	**274.67**	**350.95**
2016-2017	11.32	9.89	28.74	12.91	14.34	**77.19**	160.66	22.19	94.29	**277.13**	**354.33**
2017-2018	11.43	9.94	29.06	13.05	14.56	**78.05**	162.25	22.40	95.22	**279.87**	**357.92**
2018-2019	11.53	9.99	29.39	13.20	14.79	**78.90**	163.86	22.63	96.17	**282.66**	**361.55**
2019-2020	11.63	10.04	29.72	13.34	15.00	**79.74**	165.56	22.86	97.16	**285.59**	**365.33**
2020-2021	11.73	10.08	30.04	13.49	15.22	**80.56**	167.31	23.10	98.19	**288.60**	**369.16**
2021-2022	11.84	10.13	30.31	13.62	15.44	**81.35**	169.10	23.35	99.24	**291.69**	**373.04**
2022-2023	11.92	10.15	30.55	13.73	15.63	**81.98**	170.58	23.55	100.10	**294.23**	**376.22**
2023-2024	12.00	10.16	30.80	13.84	15.82	**82.62**	172.03	23.75	100.96	**296.74**	**379.37**
2024-2025	12.08	10.18	31.02	13.94	16.01	**83.24**	173.50	23.96	101.82	**299.27**	**382.51**
2025-2026	12.17	10.19	31.25	14.05	16.21	**83.87**	174.92	24.15	102.65	**301.72**	**385.60**
2026-2027	12.26	10.21	31.48	14.15	16.41	**84.52**	176.47	24.37	103.56	**304.39**	**388.91**

Appendix 2.4 D

Peak Day Demand - 11/2007 - 10/2027 (Net of DSM Savings)

Peak Day = December 20

Gas Year	Klam Falls	La Grande	Medford GTN	Medford NWP	Rosburg	Oregon	Spokane Both	Spokane GTN	Spokane NWP	WA/ID	Total
Base											
2007-2008	13.86	8.48	41.02	18.43	16.33	**98.12**	125.17	17.27	73.38	**215.81**	**313.94**
2008-2009	14.15	8.57	42.00	18.87	16.62	**100.21**	128.21	17.69	75.17	**221.07**	**321.28**
2009-2010	14.46	8.66	43.05	19.34	17.06	**102.58**	131.40	18.13	77.06	**226.59**	**329.17**
2010-2011	14.80	8.74	44.10	19.81	17.53	**104.98**	134.74	18.59	79.02	**232.35**	**337.33**
2011-2012	15.15	8.82	45.18	20.30	18.04	**107.48**	138.09	19.06	80.99	**238.14**	**345.62**
2012-2013	15.48	8.91	46.35	20.82	18.64	**110.20**	141.01	19.46	82.71	**243.17**	**353.38**
2013-2014	15.78	9.01	47.41	21.30	19.21	**112.71**	143.66	19.83	84.26	**247.75**	**360.46**
2014-2015	16.09	9.10	48.48	21.79	19.78	**115.25**	146.09	20.18	85.71	**251.98**	**367.22**
2015-2016	16.42	9.22	49.61	22.29	20.40	**117.94**	149.01	20.57	87.43	**257.01**	**374.95**
2016-2017	16.76	9.34	50.79	22.82	21.05	**120.77**	151.97	20.98	89.17	**262.13**	**382.89**
2017-2018	17.10	9.45	51.96	23.35	21.70	**123.56**	155.05	21.41	90.97	**267.43**	**391.00**
2018-2019	17.43	9.55	53.07	23.85	22.32	**126.22**	158.21	21.84	92.83	**272.88**	**399.10**
2019-2020	17.74	9.64	54.19	24.35	22.93	**128.86**	161.42	22.28	94.71	**278.41**	**407.28**
2020-2021	18.07	9.75	55.31	24.86	23.56	**131.55**	164.77	22.75	96.67	**284.19**	**415.75**
2021-2022	18.38	9.84	56.38	25.34	24.15	**134.09**	168.23	23.22	98.70	**290.16**	**424.24**
2022-2023	18.70	9.93	57.43	25.81	24.75	**136.63**	171.76	23.71	100.77	**296.24**	**432.87**
2023-2024	19.02	10.01	58.48	26.28	25.35	**139.14**	175.38	24.21	102.89	**302.48**	**441.62**
2024-2025	19.33	10.09	59.51	26.74	25.97	**141.63**	178.99	24.71	105.01	**308.70**	**450.33**
2025-2026	19.66	10.17	60.52	27.20	26.59	**144.14**	182.62	25.21	107.13	**314.96**	**459.10**
2026-2027	19.98	10.24	61.55	27.66	27.22	**146.65**	186.20	25.70	109.23	**321.13**	**467.78**
High											
2007-2008	13.89	8.70	41.24	18.53	16.55	**98.91**	127.41	17.58	74.70	**219.69**	**318.60**
2008-2009	14.09	8.69	42.00	18.87	16.70	**100.36**	129.90	17.92	76.16	**223.98**	**324.34**
2009-2010	14.80	8.96	44.27	19.89	17.63	**105.56**	136.80	18.88	80.22	**235.90**	**341.46**
2010-2011	15.41	9.15	46.19	20.75	18.47	**109.98**	142.94	19.72	83.83	**246.49**	**356.47**
2011-2012	16.06	9.34	48.14	21.62	19.36	**114.53**	147.90	20.57	86.74	**255.21**	**369.73**
2012-2013	16.61	9.51	50.07	22.50	20.35	**119.05**	153.45	21.30	90.00	**264.75**	**383.80**
2013-2014	17.14	9.69	51.89	23.32	21.31	**123.35**	158.76	22.06	93.12	**273.94**	**397.29**
2014-2015	17.63	9.84	53.55	24.06	22.18	**127.25**	163.42	22.64	95.86	**281.92**	**409.18**
2015-2016	18.14	10.02	55.30	24.85	23.15	**131.46**	168.25	23.24	98.70	**290.19**	**421.65**
2016-2017	18.62	10.19	56.99	25.61	24.09	**135.50**	172.57	23.82	101.24	**297.64**	**433.14**
2017-2018	19.08	10.31	56.71	25.49	24.99	**136.58**	176.82	24.41	103.73	**304.95**	**441.53**
2018-2019	19.55	10.46	60.22	27.06	25.91	**143.21**	181.53	25.06	106.49	**313.08**	**456.29**
2019-2020	20.02	10.59	61.84	27.79	26.81	**147.05**	186.39	25.73	109.34	**321.46**	**468.51**
2020-2021	20.48	10.73	63.41	28.49	27.70	**150.81**	191.17	26.39	112.15	**329.70**	**480.51**
2021-2022	20.91	10.85	64.94	29.18	28.56	**154.44**	196.25	27.09	115.12	**338.46**	**492.90**
2022-2023	21.36	10.97	66.39	29.83	29.41	**157.96**	201.25	27.78	118.05	**347.08**	**505.04**
2023-2024	21.78	11.07	67.82	30.48	30.25	**161.40**	206.46	28.50	121.11	**356.07**	**517.47**
2024-2025	22.19	11.16	69.16	31.08	31.09	**164.68**	211.50	29.19	124.06	**364.75**	**529.43**
2025-2026	22.66	11.27	70.64	31.75	32.00	**168.32**	216.91	29.94	127.23	**374.07**	**542.39**
2026-2027	23.13	11.36	72.08	32.39	32.91	**171.87**	222.08	30.65	130.26	**382.98**	**554.85**
Low											
2007-2008	13.70	8.49	40.60	18.24	16.27	**97.29**	124.09	17.12	72.75	**213.96**	**311.26**
2008-2009	13.37	8.25	39.72	17.84	15.88	**95.05**	121.43	16.75	71.20	**209.38**	**304.43**
2009-2010	13.57	8.32	40.36	18.14	16.14	**96.53**	123.40	17.03	72.37	**212.80**	**309.33**
2010-2011	13.80	8.40	41.07	18.46	16.45	**98.17**	125.62	17.33	73.67	**216.62**	**314.79**
2011-2012	13.96	8.43	41.57	18.68	16.69	**99.32**	126.75	17.49	74.34	**218.58**	**317.90**
2012-2013	14.10	8.47	42.11	18.92	16.98	**100.58**	127.75	17.63	74.94	**220.32**	**320.89**
2013-2014	14.24	8.51	42.61	19.14	17.24	**101.74**	128.66	17.76	75.63	**222.05**	**323.79**
2014-2015	14.38	8.55	43.10	19.37	17.51	**102.91**	129.79	17.92	76.15	**223.86**	**326.76**
2015-2016	14.53	8.60	43.62	19.60	17.81	**104.16**	130.99	18.08	76.86	**225.94**	**330.09**
2016-2017	14.68	8.65	44.17	19.85	18.12	**105.47**	132.21	18.26	77.59	**228.06**	**333.53**
2017-2018	14.84	8.70	44.72	20.08	18.43	**106.77**	133.55	18.44	78.37	**230.36**	**337.13**
2018-2019	14.98	8.75	45.24	20.31	18.72	**108.00**	134.91	18.63	79.17	**232.71**	**340.72**
2019-2020	15.11	8.79	45.76	20.54	19.00	**109.20**	136.31	18.82	79.99	**235.12**	**344.31**
2020-2021	15.25	8.83	46.28	20.78	19.30	**110.44**	137.78	19.02	80.85	**237.65**	**348.09**
2021-2022	15.39	8.87	46.73	21.00	19.58	**111.57**	139.29	19.23	81.73	**240.25**	**351.82**
2022-2023	15.50	8.89	47.11	21.17	19.83	**112.50**	140.57	19.41	82.48	**242.46**	**354.96**
2023-2024	15.61	8.91	47.50	21.35	20.07	**113.43**	141.80	19.58	83.20	**244.58**	**358.01**
2024-2025	15.71	8.92	47.86	21.51	20.31	**114.31**	143.10	19.76	83.97	**246.83**	**361.14**
2025-2026	15.83	8.94	48.21	21.67	20.57	**115.22**	144.40	19.94	84.73	**249.07**	**364.29**
2026-2027	15.94	8.95	48.59	21.84	20.83	**116.17**	145.69	20.11	85.49	**251.29**	**367.46**

General Assumptions

Appendix 6.1

Appendix 6.1 – General Assumptions

Utility Natural Gas Escalation Rates*

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
0.8%	9.0%	0.0%	-3.2%	-1.4%	-1.9%	0.2%	0.7%	2.1%	2.6%
2017	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**
3.4%	3.2%	2.3%	2.2%	1.7%	1.7%	1.7%	1.7%	1.7%	1.4%

* Source: Global Insights, Inc 4/26/2007 Forecast.

GDP Inflation Rates*

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
1.89%	1.99%	2.07%	2.01%	1.98%	2.01%	1.97%	1.88%	1.85%	1.85%
2017	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**
1.88%	1.92%	1.95%	1.92%	1.96%	1.97%	1.99%	2.00%	1.99%	2.02%

* Source: Global Insights, Inc 4/26/2007 Forecast.

Real Discount Rate = 4.18% - Weighted Average after Tax Cost of Capital (jurisdictionally weighted).

AECO, Sumas, Rockies Prices – See Attached

NYMEX Prices – Were closing 5/9/2007 prices. More current NYMEX prices (11/26/2007) were analyzed and determined that the change was not significant enough to warrant updating.

Other Pricing:
Station 2 – Sumas minus $.4172
Malin = AECO plus $.2123
Spokane = AECo plus $.2967

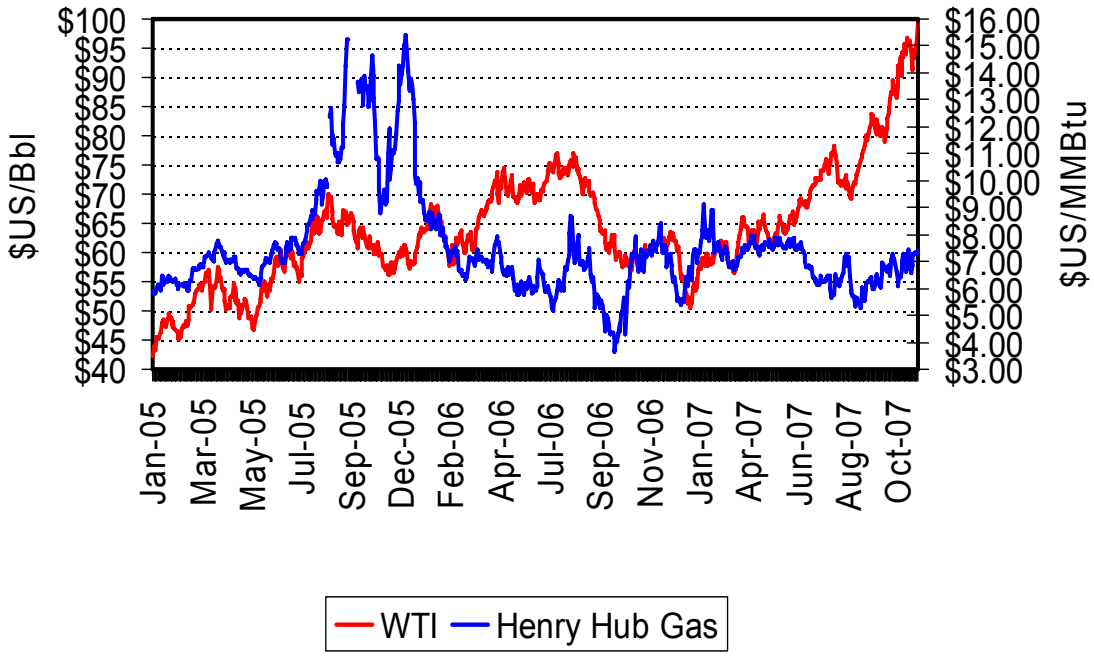
Consultant Price Assumptions

	Consultant 1			Consultant 2			AEO 2007		
	2008	**2010**	**2015**	**2008**	**2010**	**2015**	**2008**	**2010**	**2015**
Forecasted HH Price (2007 $)	$ 8.07	$ 7.06	$ 6.73	$ 7.83	$ 6.58	$ 6.18	$ 8.31	$ 6.62	$ 5.75
US Economic Growth (% GDP)	3.50%	3.20%	3.20%	3.00%	3.00%	3.00%	3.05%	3.01%	3.00%
Total US Gas Demand bcf/d)	63.41	65.86	68.27	60.61	62.06	67.8	63.95	65.8	69.38
EG Demand (bcf\d)	18.6	19.81	21.54	17.93	19.36	25.4	17.44	17.48	19.48
World Oil Prices (2007$)	$ 65.53	$ 61.17	$ 63.93	$ 55.32	$ 52.62	$ 46.87	$ 67.59	$ 60.61	$ 52.59
US Gas Prod. (bcf\d)	53.27	52.45	49.77	48.32	47.78	46.5	53.22	53.21	53.89
LNG Imports (bcf\d)	2.76	5.82	10.28	4.14	6.84	11.8	3.04	4.97	8.19
Net (Canada & Mexico) Imports (bcf\d)	7.47	7.6	8.22	7.78	7.39	9	7.69	7.62	7.30
Mackenzie Delta Pipeline		1 bcf/d in service 2014			In service 2012			1.2 bcf/d in service 2012	
Alaska Pipeline			4 bcf/d in service 2020			In service 2017			3.9 bcf/d in service 2018

Pipeline Rates

Northwest Pipeline – currently settled rates with pipeline rate increases every five years at GDP
GTN – currently filed rates with pipeline rate increases every five years at GDP
Canadian Pipelines – current rates with pipeline rate increases three years at GDP

Natural Gas and WTI Oil Price Relationship:



Heating Degree Days – See Attached

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	48	23	21	13	21	13	4	0	3	12	16	34	
2	37	26	32	21	24	12	8	0	9	9	22	27	
3	31	27	30	27	19	13	13	1	6	8	19	23	
4	38	22	35	22	14	10	15	2	5	8	19	28	
5	29	28	35	23	8	4	15	0	5	8	19	26	
6	23	26	34	30	9	6	12	1	1	9	22	31	
7	29	30	27	27	8	15	7	1	10	8	23	31	
8	27	23	23	21	11	12	5	2	9	22	18	35	
9	39	28	17	14	15	12	4	0	6	24	27	34	
10	42	35	22	10	8	13	3	0	1	21	29	43	
11	39	28	21	10	7	8	0	0	3	24	33	46	
12	41	22	23	25	10	12	0	0	3	25	31	47	
13	34	42	20	29	21	9	0	0	3	21	41	39	
14	29	51	21	20	27	2	3	0	0	23	43	41	
15	26	54	24	18	25	0	0	0	0	31	42	39	
16	35	53	20	34	25	0	0	2	0	24	37	39	
17	38	47	18	27	13	0	0	0	0	16	37	37	
18	40	35	20	25	8	0	0	0	0	12	38	54	
19	41	29	26	25	0	0	0	0	3	16	37	66	
20	41	22	25	32	0	3	0	1	2	15	36	72	
21	43	29	33	31	10	0	0	2	17	17	35	68	
22	36	38	33	25	15	0	0	3	19	13	30	58	
23	36	35	35	20	16	0	0	4	20	15	31	35	
24	31	31	33	26	16	11	0	9	22	21	24	33	
25	34	33	31	20	18	7	0	13	20	27	22	35	
26	29	32	28	19	18	1	1	5	19	22	31	37	
27	35	26	25	13	16	7	0	7	21	23	33	38	
28	34	22	22	12	6	11	0	9	19	16	24	38	
29	27	26	23	8	1	8	0	11	16	17	21	37	
30	32	0	21	2	13	16	0	7	13	16	26	35	
31	39	0	24	0	24	0	0	3	0	17	0	27	
	1083	923	802	629	426	205	90	83	255	540	866	1233	7135

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	35	22	17	23	28	22	1	0	0	10	34	28	
2	39	25	27	22	26	9	0	0	0	10	22	24	
3	41	24	24	23	20	12	0	0	0	11	17	28	
4	52	21	27	18	22	18	0	0	0	13	27	31	
5	66	29	24	14	22	15	0	4	5	14	28	37	
6	56	27	31	18	17	3	1	1	3	11	21	33	
7	39	26	24	11	20	0	2	3	0	5	23	35	
8	30	25	24	11	14	0	0	0	0	3	25	33	
9	25	28	18	11	13	0	0	0	7	14	30	31	
10	24	35	19	14	11	4	0	0	11	17	25	33	
11	34	31	22	22	3	8	0	0	18	18	24	49	
12	30	28	29	22	0	13	0	0	15	14	21	54	
13	27	61	23	24	0	8	0	0	9	12	14	37	
14	31	68	22	26	11	1	0	0	6	13	25	29	
15	33	74	31	14	14	0	0	0	4	9	33	30	
16	33	61	32	21	6	0	0	5	14	7	30	31	
17	34	60	28	19	9	0	5	0	6	11	32	33	
18	35	50	29	22	15	0	0	0	12	19	26	51	
19	33	49	31	22	14	0	0	0	3	15	30	58	
20	34	42	28	12	11	1	8	8	7	19	29	64	
21	31	32	30	6	6	3	9	3	7	21	26	58	
22	35	24	26	0	0	8	0	1	16	24	31	51	
23	34	22	22	23	0	2	0	5	12	21	31	26	
24	35	29	16	26	4	11	0	5	8	24	29	31	
25	34	30	21	19	2	4	4	8	17	28	33	35	
26	34	23	18	25	5	1	1	1	10	23	34	34	
27	32	15	18	18	0	0	4	5	7	18	31	35	
28	27	18	20	21	4	0	7	0	14	19	33	40	
29	24	0	30	23	15	0	0	0	6	26	26	34	
30	24	0	31	28	18	4	0	0	0	20	30	34	
31	31	0	24	0	14	0	0	4	0	24	0	36	
	1072	979	766	558	344	147	42	53	217	493	820	1163	6654

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	27	18	28	18	8	7	0	4	0	0	10	22	
2	33	21	22	19	13	7	2	0	0	1	13	23	
3	28	22	20	18	17	4	6	0	0	1	5	22	
4	32	25	20	16	10	9	2	0	0	0	16	26	
5	28	26	21	18	12	13	0	0	0	0	23	30	
6	31	25	11	18	8	9	0	0	0	0	21	26	
7	25	24	19	20	6	6	0	0	0	10	24	30	
8	30	26	18	20	3	0	0	0	0	15	28	25	
9	30	25	21	14	2	0	0	0	0	18	16	29	
10	29	25	19	18	3	0	0	0	7	16	14	22	
11	23	23	18	21	0	0	0	0	5	17	16	28	
12	19	22	12	23	0	0	0	0	4	17	19	28	
13	21	32	11	23	3	0	0	0	2	19	22	32	
14	25	36	12	22	9	0	0	0	0	15	27	28	
15	22	38	15	19	7	2	0	0	0	9	16	21	
16	20	32	14	17	2	6	0	0	0	3	18	16	
17	21	28	22	13	0	3	0	0	0	3	18	19	
18	23	19	21	10	4	3	0	0	0	8	21	50	
19	23	16	19	6	11	0	0	0	3	10	20	59	
20	23	21	17	6	10	0	0	0	10	15	24	61	
21	22	17	18	4	14	0	0	0	10	14	26	56	
22	25	21	17	5	10	0	0	0	5	6	30	55	
23	28	23	15	13	7	0	0	1	2	9	26	34	
24	31	20	13	14	10	0	0	0	2	10	23	34	
25	32	22	15	15	9	0	0	0	0	13	25	30	
26	28	28	18	10	7	0	0	0	2	15	26	28	
27	30	22	16	2	7	0	0	0	3	21	23	32	
28	23	27	19	0	9	0	0	0	6	13	26	29	
29	22	0	19	0	16	0	0	0	4	11	31	29	
30	23	0	19	0	9	0	0	2	4	16	25	31	
31	27	0	20	0	8	0	0	0	0	13	0	33	
	804	684	549	402	234	69	10	7	69	318	632	988	4766

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	25	25	11	13	7	5	6	0	1	0	15	25	
2	18	27	9	8	2	5	0	0	5	5	17	28	
3	23	23	15	6	14	8	0	0	2	10	19	28	
4	15	18	25	11	15	11	0	0	0	8	15	23	
5	15	11	24	11	16	9	0	0	0	5	20	24	
6	19	23	22	9	12	7	0	0	0	0	19	21	
7	23	25	18	13	15	7	0	0	0	0	16	22	
8	22	23	24	23	15	3	0	3	0	5	13	24	
9	24	26	16	18	13	0	0	0	0	8	14	27	
10	27	27	23	11	9	0	0	0	0	11	14	28	
11	22	25	17	11	13	6	0	0	0	11	11	25	
12	21	20	14	7	5	8	0	0	1	14	15	27	
13	20	32	16	17	0	4	1	0	1	6	12	22	
14	23	37	13	20	6	2	0	0	0	9	13	18	
15	24	42	11	20	13	0	0	0	0	9	17	20	
16	27	34	12	17	14	0	0	0	0	6	18	27	
17	29	28	13	19	16	0	3	0	5	6	17	25	
18	24	16	14	20	15	0	0	0	8	7	16	40	
19	22	14	11	19	7	0	0	0	11	2	17	53	
20	25	12	4	21	5	0	0	0	8	10	26	55	
21	18	15	14	11	0	0	0	0	8	15	23	46	
22	19	14	18	8	0	0	1	4	3	17	14	48	
23	20	26	15	0	0	0	0	4	2	13	14	17	
24	24	21	19	1	0	0	0	1	0	10	13	19	
25	22	17	22	7	7	0	0	0	5	10	12	20	
26	22	11	23	11	1	0	0	0	4	9	18	22	
27	27	10	19	13	0	0	0	0	0	9	21	18	
28	26	21	20	11	0	7	3	0	0	11	28	23	
29	23	0	17	10	0	3	3	0	6	14	25	22	
30	24	0	9	7	5	2	2	0	5	17	29	20	
31	26	0	7	0	1	0	0	0	0	13	0	23	
	699	623	495	373	226	87	19	12	75	270	521	840	4240

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	35	40	28	23	20	0	9	0	0	14	29	40	
2	40	45	27	26	18	5	6	0	0	18	26	37	
3	39	38	29	23	13	6	0	0	0	21	27	36	
4	33	30	27	26	12	2	0	0	0	15	29	41	
5	29	26	29	24	23	2	0	0	6	16	35	38	
6	38	34	26	25	20	7	0	0	10	12	35	34	
7	38	32	21	25	16	8	0	0	9	12	31	32	
8	38	34	20	22	13	15	0	0	7	7	27	32	
9	35	41	20	18	9	4	2	0	13	7	27	31	
10	35	43	24	20	9	6	5	0	11	7	34	32	
11	34	41	27	24	9	5	1	0	5	17	23	31	
12	34	38	38	18	10	5	0	0	1	14	27	24	
13	33	62	41	19	8	3	0	0	11	12	28	25	
14	38	72	42	16	14	0	0	0	12	20	29	34	
15	47	82	32	19	16	0	0	0	12	22	35	40	
16	46	67	26	18	8	9	0	0	15	23	42	41	
17	44	57	25	20	4	13	0	0	18	21	39	41	
18	41	26	24	20	0	10	0	1	22	13	33	51	
19	37	22	18	21	0	9	0	2	16	13	29	56	
20	38	29	23	22	7	8	6	0	6	12	25	61	
21	36	35	28	18	10	4	10	5	3	16	26	58	
22	36	34	29	10	12	4	6	1	0	16	21	53	
23	36	35	27	6	9	0	0	5	0	15	26	37	
24	35	32	26	13	11	0	0	7	0	20	29	40	
25	34	25	19	10	13	0	0	7	3	23	30	51	
26	42	21	16	5	11	0	0	7	4	23	28	58	
27	46	29	10	14	10	10	0	2	3	26	32	47	
28	41	33	20	17	6	10	1	0	2	30	34	48	
29	38	0	25	20	10	4	0	0	2	29	29	39	
30	40	0	23	15	13	0	0	2	3	30	32	30	
31	33	0	18		9	0	0	3	0	30	0	37	
	1169	1103	788	557	343	149	46	42	194	554	897	1255	7097

Appendix 6.1
Mid Price Case
Real 2007$

		86.0%	87.6%	80.5%		
	Nymex	AECo	Sumas	Rockies		
2008	8.53	7.34	7.47	6.87	Seasonal Shape	
2009	7.96	6.85	6.97	6.41	January	113%
2010	7.42	6.38	6.50	5.97	February	113%
2011	6.82	5.87	5.97	5.49	March	110%
2012	6.53	5.61	5.72	5.25	April	93%
2013	6.38	5.49	5.59	5.14	May	92%
2014	6.52	5.61	5.71	5.25	June	93%
2015	6.73	5.79	5.90	5.42	July	94%
2016	6.77	5.82	5.93	5.45	August	94%
2017	6.80	5.85	5.96	5.47	September	95%
2018	6.83	5.87	5.98	5.50	October	96%
2019	7.01	6.03	6.14	5.64	November	101%
2020	7.18	6.17	6.29	5.78	December	106%
2021	7.34	6.31	6.43	5.91		
2022	7.47	6.42	6.54	6.01		
2023	7.59	6.53	6.65	6.11		
2024	7.72	6.64	6.77	6.22		
2025	7.86	6.76	6.88	6.33		
2026	8.00	6.88	7.00	6.44		
2027	8.11	6.97	7.10	6.53		

AECO		113%	113%	110%	93%	92%	93%	94%	94%	95%	96%	101%	106%
		January	February	March	April	May	June	July	August	September	October	November	December
2008	7.34	8.30	8.29	8.08	6.85	6.74	6.80	6.87	6.92	6.95	7.04	7.42	7.80
2009	6.85	7.75	7.73	7.54	6.39	6.29	6.34	6.41	6.46	6.49	6.57	6.93	7.28
2010	6.38	7.22	7.21	7.03	5.95	5.86	5.91	5.97	6.02	6.05	6.12	6.46	6.78
2011	5.87	6.64	6.63	6.46	5.47	5.38	5.44	5.49	5.53	5.56	5.63	5.93	6.23
2012	5.61	6.35	6.34	6.18	5.24	5.15	5.20	5.25	5.29	5.32	5.38	5.68	5.96
2013	5.49	6.21	6.20	6.05	5.12	5.04	5.09	5.14	5.18	5.20	5.27	5.55	5.84
2014	5.61	6.34	6.33	6.18	5.23	5.15	5.20	5.25	5.29	5.31	5.38	5.67	5.96
2015	5.79	6.55	6.54	6.38	5.40	5.32	5.37	5.42	5.46	5.49	5.55	5.86	6.15
2016	5.82	6.59	6.58	6.41	5.43	5.34	5.39	5.45	5.49	5.52	5.58	5.89	6.19
2017	5.85	6.62	6.61	6.44	5.46	5.37	5.42	5.47	5.51	5.54	5.61	5.91	6.22
2018	5.87	6.64	6.63	6.47	5.48	5.39	5.44	5.50	5.54	5.56	5.63	5.94	6.24
2019	6.03	6.82	6.81	6.64	5.62	5.53	5.58	5.64	5.68	5.71	5.78	6.10	6.41
2020	6.17	6.99	6.97	6.80	5.76	5.67	5.72	5.78	5.82	5.85	5.92	6.24	6.56
2021	6.31	7.14	7.13	6.95	5.89	5.79	5.85	5.91	5.95	5.98	6.05	6.38	6.71
2022	6.42	7.27	7.25	7.07	5.99	5.90	5.95	6.01	6.06	6.09	6.16	6.50	6.83
2023	6.53	7.39	7.38	7.19	6.09	6.00	6.05	6.11	6.16	6.19	6.26	6.61	6.94
2024	6.64	7.52	7.50	7.31	6.20	6.10	6.15	6.22	6.26	6.30	6.37	6.72	7.06
2025	6.76	7.65	7.63	7.44	6.31	6.20	6.26	6.33	6.37	6.41	6.48	6.84	7.18
2026	6.88	7.78	7.77	7.57	6.42	6.31	6.37	6.44	6.48	6.52	6.60	6.96	7.31
2027	6.97	7.89	7.87	7.68	6.50	6.40	6.46	6.53	6.57	6.61	6.69		

Appendix 6.1
Mid Price Case

Sumas		113%	113%	110%	93%	92%	93%	94%	94%	95%	96%	101%	106%
		January	February	March	April	May	June	July	August	September	October	November	December
2008	7.47	8.46	8.44	8.23	6.97	6.86	6.93	7.00	7.05	7.08	7.17	7.56	7.94
2009	6.97	7.89	7.88	7.68	6.51	6.40	6.46	6.53	6.58	6.61	6.69	7.05	7.41
2010	6.50	7.36	7.34	7.16	6.07	5.97	6.02	6.09	6.13	6.16	6.24	6.58	6.91
2011	5.97	6.76	6.75	6.58	5.57	5.48	5.54	5.59	5.63	5.66	5.73	6.04	6.35
2012	5.72	6.47	6.46	6.30	5.33	5.25	5.30	5.35	5.39	5.42	5.48	5.78	6.08
2013	5.59	6.33	6.32	6.16	5.22	5.13	5.18	5.24	5.27	5.30	5.36	5.66	5.94
2014	5.71	6.46	6.45	6.29	5.33	5.24	5.29	5.35	5.39	5.41	5.48	5.78	6.07
2015	5.90	6.67	6.66	6.50	5.50	5.41	5.47	5.52	5.56	5.59	5.66	5.97	6.27
2016	5.93	6.71	6.70	6.53	5.53	5.44	5.49	5.55	5.59	5.62	5.69	6.00	6.30
2017	5.96	6.74	6.73	6.56	5.56	5.47	5.52	5.58	5.62	5.65	5.71	6.02	6.33
2018	5.98	6.77	6.76	6.59	5.58	5.49	5.54	5.60	5.64	5.67	5.74	6.05	6.36
2019	6.14	6.95	6.93	6.76	5.73	5.64	5.69	5.75	5.79	5.82	5.89	6.21	6.53
2020	6.29	7.12	7.10	6.93	5.87	5.77	5.83	5.89	5.93	5.96	6.03	6.36	6.68
2021	6.43	7.28	7.26	7.08	6.00	5.90	5.96	6.02	6.06	6.09	6.17	6.50	6.83
2022	6.54	7.40	7.39	7.20	6.10	6.00	6.06	6.12	6.17	6.20	6.27	6.62	6.95
2023	6.65	7.53	7.51	7.33	6.21	6.11	6.16	6.23	6.27	6.31	6.38	6.73	7.07
2024	6.77	7.66	7.64	7.45	6.31	6.21	6.27	6.33	6.38	6.41	6.49	6.84	7.19
2025	6.88	7.79	7.78	7.58	6.42	6.32	6.38	6.44	6.49	6.52	6.60	6.96	7.32
2026	7.00	7.93	7.91	7.71	6.54	6.43	6.49	6.56	6.61	6.64	6.72	7.08	7.45
2027	7.10	8.03	8.02	7.82	6.63	6.52	6.58	6.65	6.70	6.73	6.81		

Rockies		113%	113%	110%	93%	92%	93%	94%	94%	95%	96%	101%	106%
		January	February	March	April	May	June	July	August	September	October	November	December
2008	6.87	7.77	7.76	7.56	6.41	6.30	6.36	6.43	6.48	6.51	6.59	6.95	7.30
2009	6.41	7.25	7.24	7.06	5.98	5.88	5.94	6.00	6.04	6.07	6.15	6.48	6.81
2010	5.97	6.76	6.75	6.58	5.57	5.48	5.54	5.59	5.63	5.66	5.73	6.04	6.35
2011	5.49	6.21	6.20	6.05	5.12	5.04	5.09	5.14	5.18	5.20	5.27	5.55	5.84
2012	5.25	5.94	5.93	5.78	4.90	4.82	4.87	4.92	4.95	4.98	5.04	5.31	5.58
2013	5.14	5.82	5.81	5.66	4.80	4.72	4.76	4.81	4.85	4.87	4.93	5.20	5.46
2014	5.25	5.94	5.93	5.78	4.90	4.82	4.86	4.91	4.95	4.97	5.03	5.31	5.58
2015	5.42	6.13	6.12	5.97	5.06	4.98	5.02	5.07	5.11	5.14	5.20	5.48	5.76
2016	5.45	6.16	6.15	6.00	5.08	5.00	5.05	5.10	5.14	5.16	5.23	5.51	5.79
2017	5.47	6.19	6.18	6.03	5.11	5.02	5.07	5.12	5.16	5.19	5.25	5.54	5.82
2018	5.50	6.22	6.21	6.05	5.13	5.04	5.09	5.14	5.18	5.21	5.27	5.56	5.84
2019	5.64	6.38	6.37	6.21	5.26	5.18	5.23	5.28	5.32	5.35	5.41	5.71	6.00
2020	5.78	6.54	6.53	6.36	5.39	5.31	5.36	5.41	5.45	5.48	5.54	5.85	6.14
2021	5.91	6.69	6.67	6.51	5.51	5.42	5.48	5.53	5.57	5.60	5.67	5.98	6.28
2022	6.01	6.80	6.79	6.62	5.61	5.52	5.57	5.63	5.67	5.70	5.77	6.08	6.39
2023	6.11	6.92	6.91	6.73	5.70	5.61	5.66	5.72	5.76	5.79	5.86	6.18	6.50
2024	6.22	7.03	7.02	6.85	5.80	5.71	5.76	5.82	5.86	5.89	5.96	6.29	6.61
2025	6.33	7.16	7.15	6.97	5.90	5.81	5.86	5.92	5.97	6.00	6.07	6.40	6.72
2026	6.44	7.28	7.27	7.09	6.01	5.91	5.96	6.03	6.07	6.10	6.17	6.51	6.84
2027	6.53	7.38	7.37	7.19	6.09	5.99	6.05	6.11	6.15	6.19	6.26		

Appendix 6.1
High Price Case
Real 2007$

	Nymex	AECo 86.0%	Sumas 87.6%	Rockies 80.5%
2008	9.00	7.74	7.88	7.24
2009	8.67	7.46	7.60	6.98
2010	8.27	7.11	7.25	6.66
2011	8.27	7.11	7.25	6.66
2012	8.27	7.11	7.25	6.66
2013	8.27	7.11	7.25	6.66
2014	8.27	7.11	7.25	6.66
2015	8.27	7.11	7.25	6.66
2016	8.27	7.11	7.25	6.66
2017	8.27	7.11	7.25	6.66
2018	8.27	7.11	7.25	6.66
2019	8.27	7.11	7.25	6.66
2020	8.27	7.11	7.25	6.66
2021	8.41	7.24	7.37	6.77
2022	8.56	7.36	7.50	6.89
2023	8.70	7.48	7.62	7.01
2024	8.85	7.62	7.76	7.13
2025	9.01	7.75	7.89	7.25
2026	9.13	7.86	8.00	7.35
2027	9.26	7.96	8.11	7.45

Seasonal Shape

January	113%
February	113%
March	110%
April	93%
May	92%
June	93%
July	94%
August	94%
September	95%
October	96%
November	101%
December	106%

AECO		January 113%	February 113%	March 110%	April 93%	May 92%	June 93%	July 94%	August 94%	September 95%	October 96%	November 101%	December 106%
2008	7.74	8.75	8.74	8.52	7.22	7.10	7.17	7.24	7.29	7.33	7.42	7.82	8.22
2009	7.46	8.44	8.43	8.21	6.96	6.85	6.91	6.98	7.03	7.07	7.16	7.54	7.93
2010	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2011	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2012	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2013	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2014	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2015	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2016	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2017	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2018	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2019	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2020	7.11	8.05	8.03	7.83	6.64	6.53	6.59	6.66	6.71	6.74	6.82	7.19	7.56
2021	7.24	8.19	8.17	7.97	6.75	6.64	6.71	6.77	6.82	6.86	6.94	7.32	7.69
2022	7.36	8.33	8.31	8.10	6.87	6.75	6.82	6.89	6.94	6.97	7.06	7.44	7.82
2023	7.48	8.47	8.45	8.24	6.98	6.87	6.93	7.01	7.06	7.09	7.18	7.57	7.95
2024	7.62	8.62	8.60	8.39	7.10	6.99	7.06	7.13	7.18	7.22	7.30	7.70	8.09
2025	7.75	8.77	8.75	8.53	7.23	7.11	7.18	7.25	7.31	7.34	7.43	7.84	8.24
2026	7.86	8.89	8.87	8.65	7.33	7.21	7.28	7.35	7.41	7.45	7.53	7.94	8.35
2027	7.96	9.01	8.99	8.77	7.43	7.31	7.38	7.45	7.51	7.55	7.64		

Appendix 6.1
High Price Case

Sumas		113%	113%	110%	93%	92%	93%	94%	94%	95%	96%	101%	106%
		January	February	March	April	May	June	July	August	September	October	November	December
2008	7.88	8.92	8.90	8.68	7.35	7.23	7.30	7.38	7.43	7.47	7.56	7.97	8.38
2009	7.60	8.60	8.58	8.37	7.09	6.97	7.04	7.11	7.17	7.20	7.29	7.69	8.08
2010	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2011	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2012	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2013	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2014	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2015	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2016	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2017	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2018	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2019	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2020	7.25	8.20	8.18	7.98	6.76	6.65	6.71	6.78	6.83	6.87	6.95	7.33	7.70
2021	7.37	8.34	8.33	8.12	6.88	6.77	6.83	6.90	6.95	6.99	7.07	7.46	7.83
2022	7.50	8.48	8.47	8.25	6.99	6.88	6.95	7.02	7.07	7.10	7.19	7.58	7.97
2023	7.62	8.63	8.61	8.40	7.11	7.00	7.06	7.14	7.19	7.23	7.31	7.71	8.10
2024	7.76	8.78	8.76	8.54	7.24	7.12	7.19	7.26	7.31	7.35	7.44	7.85	8.24
2025	7.89	8.93	8.91	8.69	7.36	7.24	7.31	7.39	7.44	7.48	7.57	7.98	8.39
2026	8.00	9.05	9.04	8.81	7.46	7.34	7.41	7.49	7.55	7.58	7.67	8.09	8.50
2027	8.11	9.18	9.16	8.93	7.57	7.44	7.52	7.59	7.65	7.69	7.78		

Rockies		113%	113%	110%	93%	92%	93%	94%	94%	95%	96%	101%	106%
		January	February	March	April	May	June	July	August	September	October	November	December
2008	7.24	8.19	8.18	7.97	6.76	6.65	6.71	6.78	6.83	6.86	6.95	7.32	7.70
2009	6.98	7.90	7.89	7.69	6.51	6.41	6.47	6.54	6.58	6.62	6.70	7.06	7.42
2010	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2011	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2012	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2013	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2014	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2015	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2016	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2017	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2018	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2019	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2020	6.66	7.53	7.52	7.33	6.21	6.11	6.17	6.23	6.28	6.31	6.39	6.73	7.08
2021	6.77	7.66	7.65	7.46	6.32	6.22	6.28	6.34	6.39	6.42	6.50	6.85	7.20
2022	6.89	7.79	7.78	7.59	6.43	6.32	6.38	6.45	6.50	6.53	6.61	6.97	7.32
2023	7.01	7.93	7.91	7.71	6.54	6.43	6.49	6.56	6.61	6.64	6.72	7.09	7.45
2024	7.13	8.06	8.05	7.85	6.65	6.54	6.60	6.67	6.72	6.76	6.84	7.21	7.58
2025	7.25	8.21	8.19	7.99	6.77	6.66	6.72	6.79	6.84	6.87	6.96	7.34	7.71
2026	7.35	8.32	8.31	8.10	6.86	6.75	6.81	6.88	6.93	6.97	7.05	7.44	7.82
2027	7.45	8.43	8.42	8.21	6.95	6.84	6.91	6.98	7.03	7.06	7.15		

Appendix 6.1
Low Price Case

Real 2007$		86.0%	87.6%	80.5%			
	Nymex	AECo	Sumas	Rockies			
2008	8.07	6.94	7.07	6.50	Seasonal Shape		
2009	7.01	6.03	6.14	5.65	January	113%	
2010	6.60	5.68	5.78	5.31	February	113%	
2011	6.25	5.38	5.48	5.03	March	110%	
2012	6.11	5.25	5.35	4.92	April	93%	
2013	5.96	5.12	5.22	4.80	May	92%	
2014	5.98	5.14	5.24	4.81	June	93%	
2015	5.97	5.13	5.23	4.80	July	94%	
2016	6.09	5.24	5.34	4.90	August	94%	
2017	6.28	5.40	5.50	5.06	September	95%	
2018	6.34	5.46	5.56	5.11	October	96%	
2019	6.42	5.52	5.62	5.17	November	101%	
2020	6.55	5.63	5.73	5.27	December	106%	
2021	6.62	5.70	5.80	5.33			
2022	6.76	5.81	5.92	5.44			
2023	6.89	5.93	6.04	5.55			
2024	7.04	6.06	6.17	5.67			
2025	7.11	6.11	6.22	5.72			
2026	7.19	6.18	6.30	5.79			
2027	7.29	6.27	6.38	5.87			

AECO		113%	113%	110%	93%	92%	93%	94%	94%	95%	96%	101%	106%
		January	February	March	April	May	June	July	August	September	October	November	December
2008	6.94	7.85	7.84	7.64	6.48	6.37	6.43	6.50	6.55	6.58	6.66	7.02	7.38
2009	6.03	6.82	6.81	6.64	5.63	5.54	5.59	5.65	5.69	5.72	5.79	6.10	6.41
2010	5.68	6.42	6.41	6.25	5.30	5.21	5.26	5.31	5.35	5.38	5.44	5.74	6.03
2011	5.38	6.08	6.07	5.92	5.02	4.94	4.98	5.03	5.07	5.10	5.16	5.44	5.72
2012	5.25	5.94	5.93	5.78	4.90	4.82	4.87	4.92	4.95	4.98	5.04	5.31	5.58
2013	5.12	5.80	5.79	5.64	4.78	4.70	4.75	4.80	4.83	4.86	4.91	5.18	5.45
2014	5.14	5.82	5.81	5.66	4.80	4.72	4.77	4.81	4.85	4.88	4.93	5.20	5.47
2015	5.13	5.81	5.80	5.65	4.79	4.71	4.76	4.80	4.84	4.86	4.92	5.19	5.46
2016	5.24	5.93	5.92	5.77	4.89	4.81	4.85	4.90	4.94	4.96	5.02	5.30	5.57
2017	5.40	6.11	6.10	5.95	5.04	4.96	5.01	5.06	5.10	5.12	5.18	5.47	5.74
2018	5.46	6.17	6.16	6.01	5.09	5.01	5.06	5.11	5.14	5.17	5.23	5.52	5.80
2019	5.52	6.25	6.24	6.08	5.15	5.07	5.12	5.17	5.21	5.23	5.30	5.58	5.87
2020	5.63	6.37	6.36	6.20	5.25	5.17	5.22	5.27	5.31	5.34	5.40	5.69	5.98
2021	5.70	6.45	6.44	6.27	5.32	5.23	5.28	5.33	5.37	5.40	5.46	5.76	6.06
2022	5.81	6.58	6.57	6.40	5.42	5.34	5.39	5.44	5.48	5.51	5.58	5.88	6.18
2023	5.93	6.71	6.70	6.53	5.53	5.44	5.49	5.55	5.59	5.62	5.69	6.00	6.30
2024	6.06	6.85	6.84	6.67	5.65	5.56	5.61	5.67	5.71	5.74	5.81	6.13	6.44
2025	6.11	6.91	6.90	6.73	5.70	5.61	5.66	5.72	5.76	5.79	5.86	6.18	6.50
2026	6.18	6.99	6.98	6.81	5.77	5.67	5.73	5.79	5.83	5.86	5.93	6.25	6.57
2027	6.27	7.09	7.08	6.90	5.85	5.75	5.81	5.87	5.91	5.94	6.01		

Appendix 6.1
Low Price Case

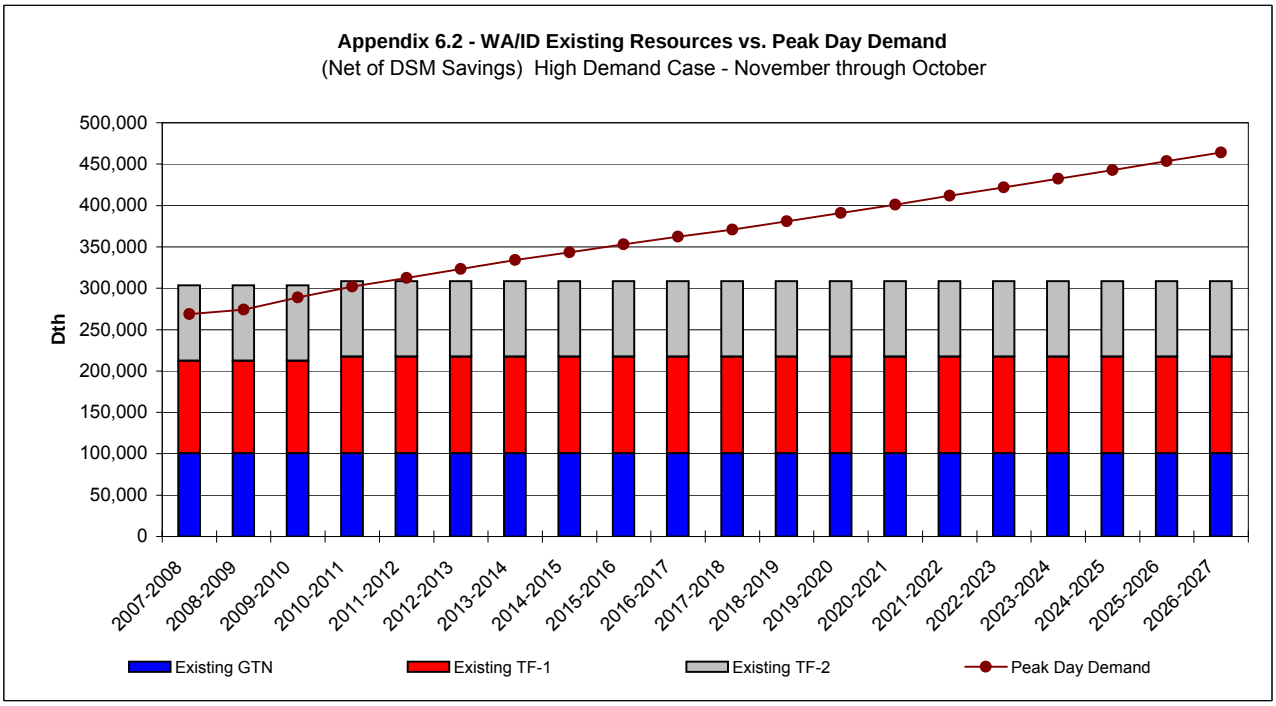
Sumas		113%	113%	110%	93%	92%	93%	94%	94%	95%	96%	101%	106%
		January	February	March	April	May	June	July	August	September	October	November	December
2008	7.07	8.00	7.99	7.79	6.60	6.49	6.55	6.62	6.67	6.70	6.78	7.15	7.51
2009	6.14	6.95	6.94	6.77	5.73	5.64	5.69	5.75	5.79	5.82	5.89	6.21	6.53
2010	5.78	6.54	6.53	6.37	5.39	5.31	5.36	5.41	5.45	5.48	5.55	5.85	6.15
2011	5.48	6.20	6.19	6.03	5.11	5.03	5.08	5.13	5.17	5.19	5.25	5.54	5.82
2012	5.35	6.05	6.04	5.89	4.99	4.91	4.96	5.01	5.04	5.07	5.13	5.41	5.69
2013	5.22	5.90	5.89	5.75	4.87	4.79	4.84	4.88	4.92	4.95	5.01	5.28	5.55
2014	5.24	5.93	5.92	5.77	4.89	4.81	4.85	4.90	4.94	4.97	5.03	5.30	5.57
2015	5.23	5.92	5.91	5.76	4.88	4.80	4.84	4.89	4.93	4.96	5.01	5.29	5.56
2016	5.34	6.04	6.03	5.88	4.98	4.90	4.94	4.99	5.03	5.06	5.12	5.40	5.67
2017	5.50	6.23	6.22	6.06	5.14	5.05	5.10	5.15	5.19	5.22	5.28	5.57	5.85
2018	5.56	6.29	6.28	6.12	5.18	5.10	5.15	5.20	5.24	5.27	5.33	5.62	5.91
2019	5.62	6.36	6.35	6.19	5.25	5.16	5.21	5.26	5.30	5.33	5.39	5.69	5.98
2020	5.73	6.49	6.48	6.32	5.35	5.26	5.31	5.37	5.41	5.44	5.50	5.80	6.10
2021	5.80	6.57	6.56	6.39	5.41	5.33	5.38	5.43	5.47	5.50	5.57	5.87	6.17
2022	5.92	6.70	6.69	6.52	5.53	5.44	5.49	5.54	5.58	5.61	5.68	5.99	6.29
2023	6.04	6.83	6.82	6.65	5.63	5.54	5.60	5.65	5.69	5.72	5.79	6.11	6.42
2024	6.17	6.98	6.97	6.79	5.76	5.66	5.72	5.77	5.82	5.85	5.92	6.24	6.56
2025	6.22	7.04	7.03	6.85	5.81	5.71	5.77	5.83	5.87	5.90	5.97	6.30	6.62
2026	6.30	7.12	7.11	6.93	5.87	5.78	5.83	5.89	5.94	5.97	6.04	6.37	6.69
2027	6.38	7.22	7.21	7.03	5.96	5.86	5.92	5.98	6.02	6.05	6.12		

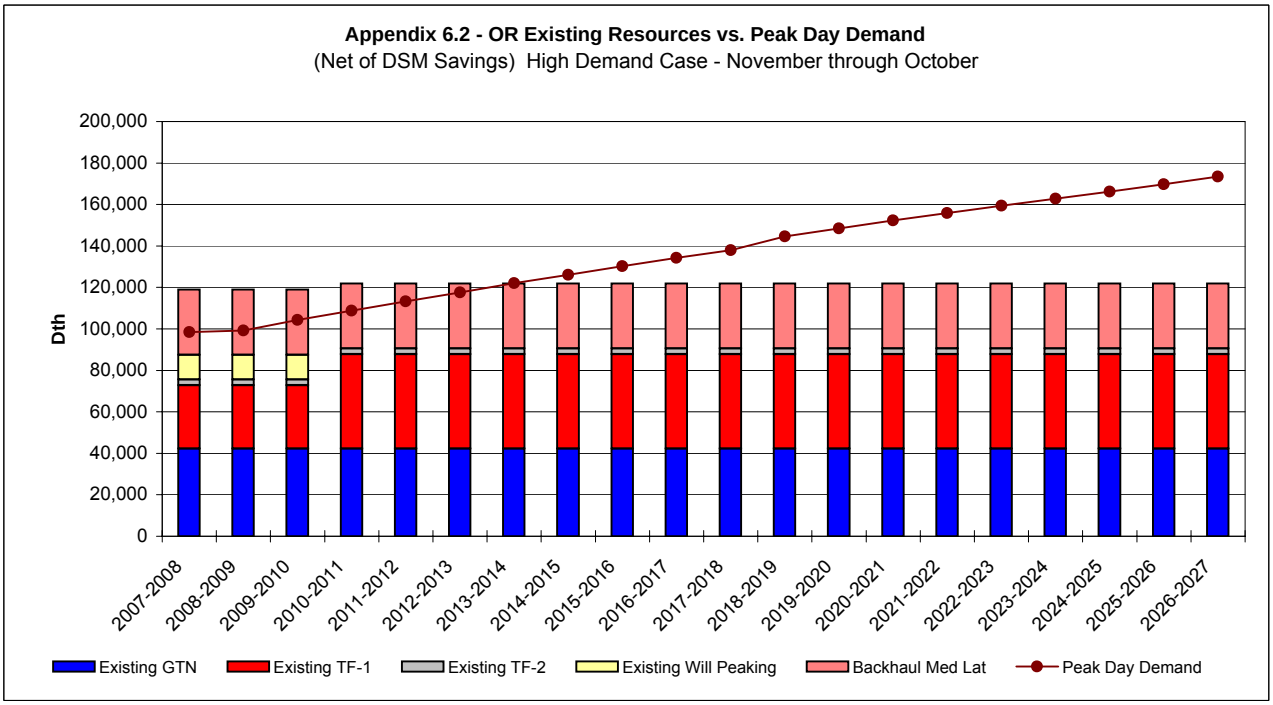
Rockies		113%	113%	110%	93%	92%	93%	94%	94%	95%	96%	101%	106%
		January	February	March	April	May	June	July	August	September	October	November	December
2008	6.50	7.35	7.34	7.15	6.06	5.96	6.02	6.08	6.13	6.16	6.23	6.57	6.91
2009	5.65	6.39	6.38	6.22	5.27	5.18	5.23	5.28	5.32	5.35	5.42	5.71	6.00
2010	5.31	6.01	6.00	5.85	4.96	4.88	4.92	4.97	5.01	5.04	5.10	5.37	5.65
2011	5.03	5.70	5.69	5.54	4.70	4.62	4.66	4.71	4.75	4.77	4.83	5.09	5.35
2012	4.92	5.56	5.55	5.41	4.59	4.51	4.55	4.60	4.64	4.66	4.71	4.97	5.22
2013	4.80	5.43	5.42	5.28	4.47	4.40	4.44	4.49	4.52	4.55	4.60	4.85	5.10
2014	4.81	5.45	5.44	5.30	4.49	4.42	4.46	4.51	4.54	4.56	4.62	4.87	5.12
2015	4.80	5.44	5.43	5.29	4.48	4.41	4.45	4.50	4.53	4.55	4.61	4.86	5.11
2016	4.90	5.55	5.54	5.40	4.57	4.50	4.54	4.59	4.62	4.65	4.70	4.96	5.21
2017	5.06	5.72	5.71	5.57	4.72	4.64	4.69	4.73	4.77	4.79	4.85	5.12	5.38
2018	5.11	5.78	5.77	5.62	4.76	4.69	4.73	4.78	4.82	4.84	4.90	5.17	5.43
2019	5.17	5.85	5.84	5.69	4.82	4.74	4.79	4.84	4.87	4.90	4.96	5.23	5.49
2020	5.27	5.96	5.95	5.80	4.92	4.84	4.88	4.93	4.97	5.00	5.05	5.33	5.60
2021	5.33	6.03	6.02	5.87	4.98	4.90	4.94	4.99	5.03	5.05	5.12	5.39	5.67
2022	5.44	6.16	6.15	5.99	5.08	5.00	5.04	5.09	5.13	5.16	5.22	5.50	5.78
2023	5.55	6.28	6.27	6.11	5.18	5.09	5.14	5.19	5.23	5.26	5.32	5.61	5.90
2024	5.67	6.41	6.40	6.24	5.29	5.20	5.25	5.31	5.35	5.37	5.44	5.73	6.03
2025	5.72	6.47	6.46	6.30	5.34	5.25	5.30	5.35	5.39	5.42	5.49	5.79	6.08
2026	5.79	6.55	6.54	6.37	5.40	5.31	5.36	5.42	5.46	5.48	5.55	5.85	6.15
2027	5.87	6.64	6.63	6.46	5.47	5.39	5.44	5.49	5.53	5.56	5.63		

Existing Resource Comparisons

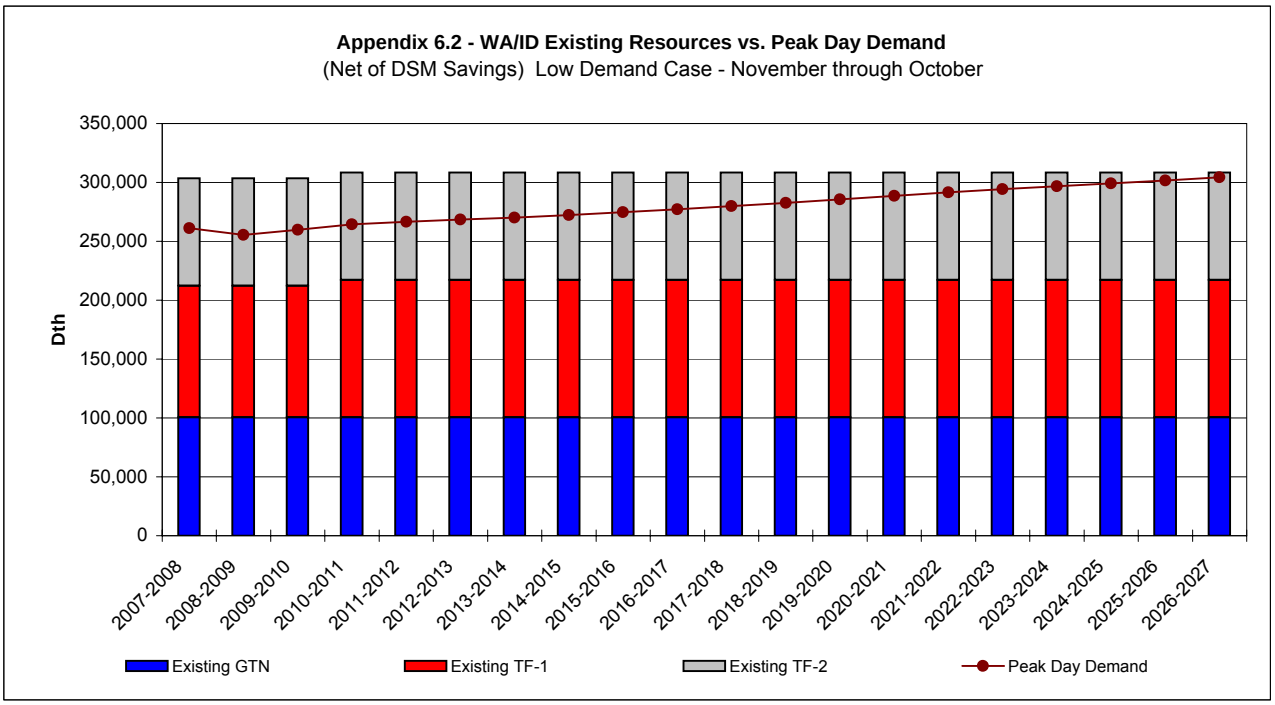
Appendix 6.2

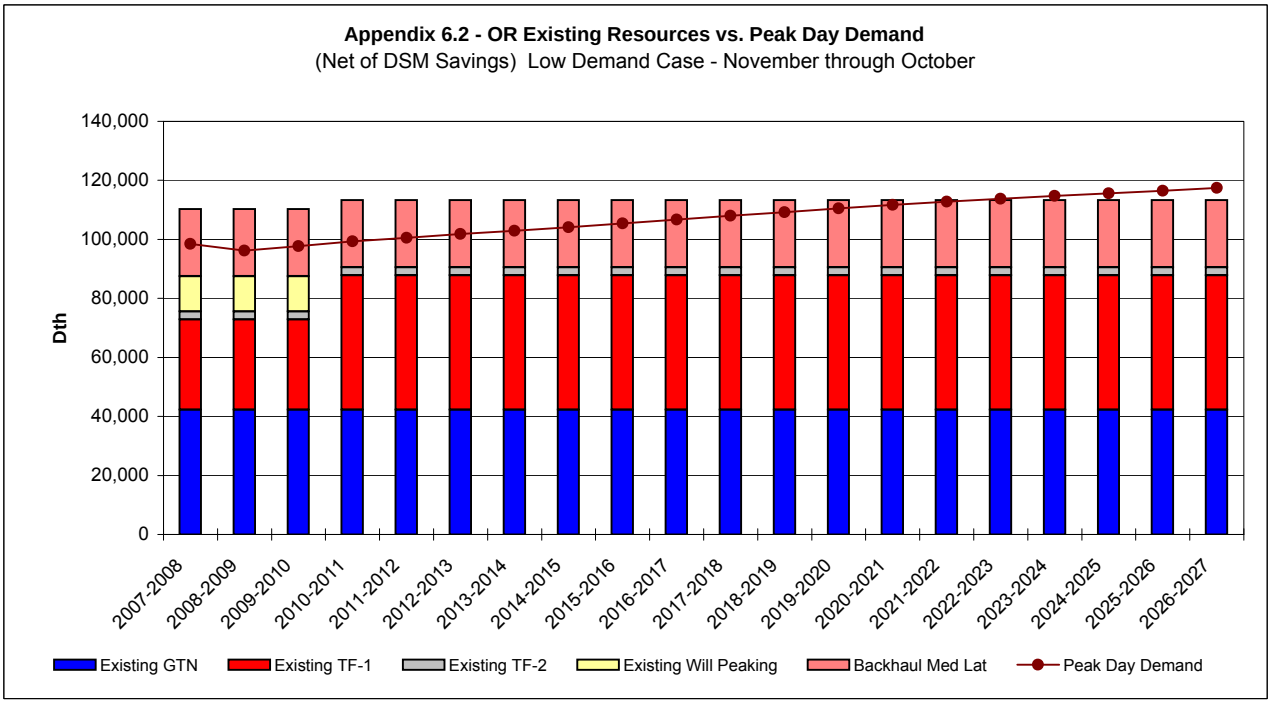
EXISTING RESOURCES





EXISTING RESOURCES





Served and Unserved Demand

Appendix 6.3

Appendix 6.3 - Peak Day Demand - Served and Unserved (MDth/d)

Before Resource Additions & Net of DSM Savings

Case	Gas Year	La Grande Served	La Grande Unserved	La Grande Total	WA/ID Served	WA/ID Unserved	WA/ID Total
High	2007-2008	9.86	-	9.86	268.89	-	268.89
High	2008-2009	9.84	-	9.84	274.08	-	274.08
High	2009-2010	10.15	-	10.15	288.99	-	288.99
High	2010-2011	10.25	0.12	10.37	302.02	-	302.02
High	2011-2012	10.25	0.35	10.60	307.42	5.08	312.50
High	2012-2013	10.25	0.55	10.81	307.52	15.85	323.37
High	2013-2014	10.25	0.75	11.00	307.67	26.28	333.95
High	2014-2015	10.25	0.96	11.21	307.63	35.82	343.45
High	2015-2016	10.25	1.18	11.43	307.23	45.98	353.21
High	2016-2017	10.25	1.34	11.59	305.66	56.53	362.19
High	2017-2018	10.25	1.48	11.74	302.65	68.27	370.91
High	2018-2019	10.25	1.63	11.88	301.21	79.62	380.83
High	2019-2020	10.25	1.80	12.05	299.82	91.08	390.91
High	2020-2021	10.25	1.93	12.18	298.64	102.42	401.06
High	2021-2022	10.25	2.07	12.32	297.43	114.37	411.80
High	2022-2023	10.25	2.18	12.44	296.29	125.77	422.06
High	2023-2024	10.25	2.29	12.55	295.18	137.33	432.51
High	2024-2025	10.25	2.40	12.65	295.99	146.68	442.67
High	2025-2026	10.25	2.51	12.76	296.85	156.57	453.43
High	2026-2027	10.25	2.63	12.88	297.70	166.35	464.05

Case	Gas Year	Klamath Falls Served	Klamath Falls Unserved	Klamath Falls Total	Medford/ Roseburg Served	Medford/ Roseburg Unserved	Medford/ Roseburg Total
High	2007-2008	13.89	-	13.89	74.72	-	74.72
High	2008-2009	14.09	-	14.09	75.36	-	75.36
High	2009-2010	14.80	-	14.80	79.39	-	79.39
High	2010-2011	15.03	0.38	15.41	83.01	-	83.01
High	2011-2012	15.03	1.03	16.06	86.65	-	86.65
High	2012-2013	15.03	1.58	16.61	87.24	2.98	90.22
High	2013-2014	15.03	2.11	17.14	87.24	6.73	93.97
High	2014-2015	15.03	2.59	17.63	87.24	10.04	97.28
High	2015-2016	15.03	3.11	18.14	87.24	13.44	100.68
High	2016-2017	15.03	3.59	18.62	87.24	16.73	103.97
High	2017-2018	15.03	4.04	19.08	87.24	19.95	107.19
High	2018-2019	15.03	4.52	19.55	87.24	25.96	113.20
High	2019-2020	15.03	4.98	20.02	87.24	29.20	116.44
High	2020-2021	15.03	5.44	20.48	87.24	32.36	119.60
High	2021-2022	15.03	5.88	20.91	87.24	35.44	122.68
High	2022-2023	15.03	6.32	21.36	87.24	38.39	125.63
High	2023-2024	15.03	6.75	21.78	87.24	41.30	128.54
High	2024-2025	15.03	7.16	22.19	87.24	44.09	131.33
High	2025-2026	15.03	7.63	22.66	87.24	47.15	134.39
High	2026-2027	15.03	8.10	23.13	87.24	50.13	137.37

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
Low	2007-2008	9.69	-	9.69	261.11	-	261.11
Low	2008-2009	9.41	-	9.41	255.47	-	255.47
Low	2009-2010	9.49	-	9.49	259.69	-	259.69
Low	2010-2011	9.58	-	9.58	264.33	-	264.33
Low	2011-2012	9.62	-	9.62	266.56	-	266.56
Low	2012-2013	9.68	-	9.68	268.38	-	268.38
Low	2013-2014	9.72	-	9.72	270.22	-	270.22
Low	2014-2015	9.77	-	9.77	272.22	-	272.22
Low	2015-2016	9.83	-	9.83	274.67	-	274.67
Low	2016-2017	9.89	-	9.89	277.13	-	277.13
Low	2017-2018	9.94	-	9.94	279.87	-	279.87
Low	2018-2019	9.99	-	9.99	282.66	-	282.66
Low	2019-2020	10.04	-	10.04	285.59	-	285.59
Low	2020-2021	10.08	-	10.08	288.60	-	288.60
Low	2021-2022	10.13	-	10.13	291.69	-	291.69
Low	2022-2023	10.15	-	10.15	294.23	-	294.23
Low	2023-2024	10.16	-	10.16	296.74	-	296.74
Low	2024-2025	10.18	-	10.18	299.27	-	299.27
Low	2025-2026	10.19	-	10.19	301.72	-	301.72
Low	2026-2027	10.21	-	10.21	304.39	-	304.39

Case	Gas Year	Klamath Falls Served	Klamath Falls Unserved	Klamath Falls Total	Medford/ Roseburg Served	Medford/ Roseburg Unserved	Medford/ Roseburg Total
Low	2007-2008	13.70	-	13.70	75.11	-	75.11
Low	2008-2009	13.37	-	13.37	73.44	-	73.44
Low	2009-2010	13.57	-	13.57	74.64	-	74.64
Low	2010-2011	13.80	-	13.80	75.98	-	75.98
Low	2011-2012	13.96	-	13.96	76.94	-	76.94
Low	2012-2013	14.10	-	14.10	78.00	-	78.00
Low	2013-2014	14.24	-	14.24	78.99	-	78.99
Low	2014-2015	14.38	-	14.38	79.98	-	79.98
Low	2015-2016	14.53	-	14.53	81.03	-	81.03
Low	2016-2017	14.68	-	14.68	82.14	-	82.14
Low	2017-2018	14.84	-	14.84	83.23	-	83.23
Low	2018-2019	14.98	-	14.98	84.27	-	84.27
Low	2019-2020	15.03	0.07	15.11	85.31	-	85.31
Low	2020-2021	15.03	0.22	15.25	86.36	-	86.36
Low	2021-2022	15.03	0.36	15.39	87.24	0.07	87.31
Low	2022-2023	15.03	0.47	15.50	87.24	0.87	88.11
Low	2023-2024	15.03	0.57	15.61	87.24	1.68	88.92
Low	2024-2025	15.03	0.68	15.71	87.24	2.44	89.68
Low	2025-2026	15.03	0.80	15.83	87.24	3.21	90.45
Low	2026-2027	15.03	0.91	15.94	87.24	4.03	91.27

Supply-Side Resources

Appendix 6.4

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)	Availability
WA/ID							
AECO Supply	Varies	Varies	1	<1 year	n/a	Commodity	Daily
Sumas/Station 2	Varies	Varies	1	<1 year	n/a	Commodity	Daily
Rockies	Varies	Varies	1	<1 year	n/a	Commodity	Daily
WA/ID Satellite LNG #1	25,000	5,000	10	7 years	7,000	Commodity + $1.0MM/yr	Peaking
WA/ID Satellite LNG #2	50,000	10,000	10	7 years	12,000	Commodity + $1.0MM/yr	Peaking
Oregon							
AECO Supply	Varies	Varies	1	<1 year	n/a	Commodity	Daily
Sumas/Station 2 Supply	Varies	Varies	1	<1 year	n/a	Commodity	Daily
Rockies Supply	Varies	Varies	1	<1 year	n/a	Commodity	Daily
Malin Supply	Varies	Varies	1	<1 year	n/a	Commodity	Daily
KFalls Lateral Purchase 2/	0	0	1	<1 year	3,000	none	n/a
KFalls Lateral Enhancement 2/	2,190,000	6,000	1	<1 year	0	Commodity	Annual
La Grande Dist. Enhance. #1	1,460,000	4,000	3	2 years	3,000	Commodity	Annual
Medford Satellite LNG #1	90,000	15,000	5	7 years	14,000	Commodity + $1.5MM/yr	Peaking
Medford Satellite LNG #2	90,000	15,000	10	7 years	14,000	Commodity + $1.5MM/yr	Peaking
California Storage 3/	1,000,000	10,000		<1 year	$2.00 per Dth Inventory	n/a	Peaking
California Storage 3/	1,000,000	10,000		<1 year	$2.00 per Dth Inventory	n/a	Peaking
Roseburg Satellite LNG	90,000	15,000	10	7 years	14,000	Commodity + $1.0MM/yr	Peaking
Klamath Falls Satellite LNG	25,000	5,000	5	7 years	7,000	Commodity + $1.0MM/yr	Peaking
Med. Company Owned LNG	n/a	n/a	n/a	n/a	n/a	n/a	Peaking

1/ Utilizes Malin supply

2/ 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

3/ Requires redelivery service via backhauls

Appendix 6.4 - Supply-Side Resources

Potential Contract Demand Expansions/Additions

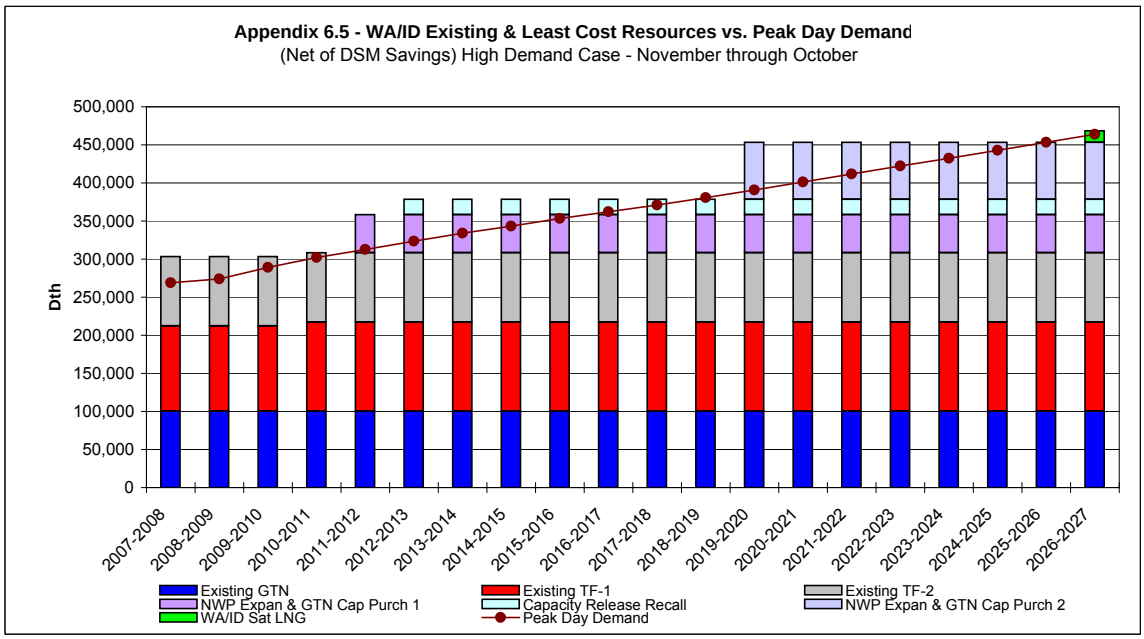
Appendix 6.5

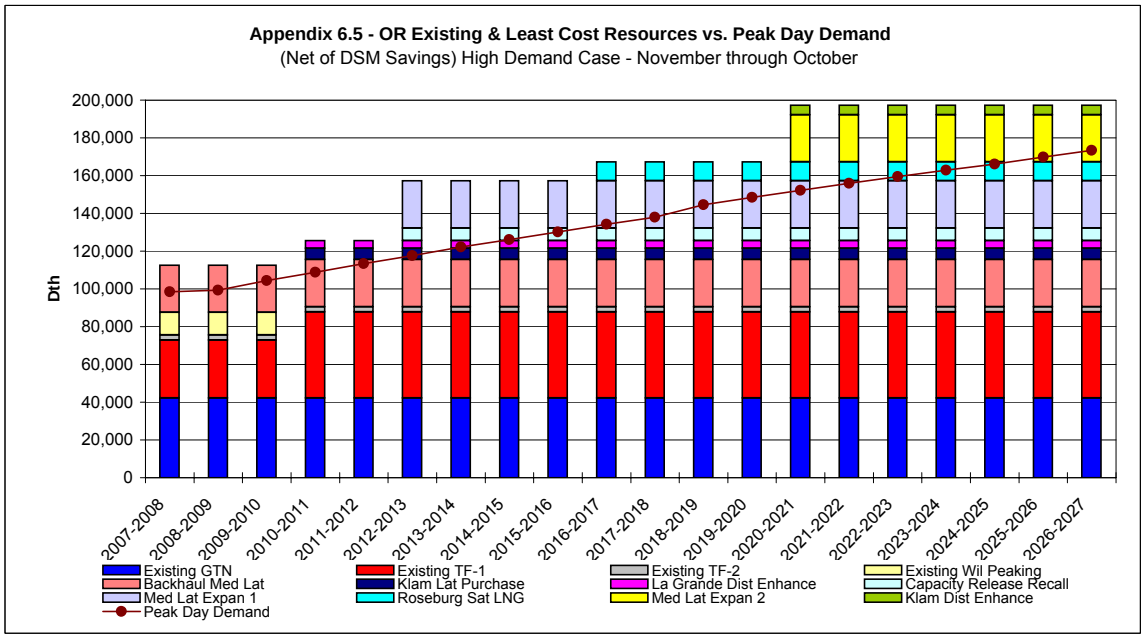
Location	Pipeline/ Facility	Identification	Daily (Dth) Capacity	Year 3/ Available	Lead Time	Capital Cost $ (000's)	Cost Dth 4/	Notes
WA/ID								
NWP Capacity for WA/ID	NWP	NWP Capacity Release Recalls	17,000	4	1 year	n/a	NWP Rate	Recall long-term capacity releases - 2012
NWP Zone 20 Spokane Area	NWP	NWP from GTN #1	25,000	4	3 years	4,000	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #2	25,000	8	3 years	4,300	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #3	25,000	12	3 years	4,600	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #4	50,000	4	3 years	8,000	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #5	75,000	8	3 years	12,000	NWP Rate	Expansion to facilitate additional GTN deliveries
NWP Zone 20 Spokane Area	NWP	NWP from GTN #6	40,000	12	3 years	6,500	NWP Rate	Expansion to facilitate additional GTN deliveries
TransCanada AECO to WA/ID	TC/GTN	AECo to Spokane #1	25,000	1	<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 Spokane #2	25,000	1	<1 year	n/a	GTN/TC Rates	Existing available capacity from AECO to Stanfield.
TransCanada AECO to WA/ID	TC/GTN	AECo to Spokane #3	25,000	1	<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 Spokane #4	50,000	1	<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	1	<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	40,000	1	<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 3.0	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 3.0	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 3.0	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 4.0	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 4.0	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 4.0	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 4.0	Transport Expansion for Rocks to WA/ID
Oregon								
NWP Capacity for OR	NWP	NWP Capacity Release Recalls	6,700	4	1 year	n/a	NWP Rate	Recall long-term capacity releases - 2012
Medford Lateral Expansion 2/ 5/	GTN	GTN Med. Lateral Expansion #1	20,000	4	3 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Allows NWP cap. to be redirected to Roseburg
Medford Lateral Expansion 2/ 5/	GTN	GTN Med. Lateral Expansion #1	25,000	4	3 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Allows NWP cap. to be redirected to Roseburg
Medford Lateral Expansion 2/ 5/	GTN	GTN Med. Lateral Expansion #2	20,000	8	3 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Allows NWP cap. to be redirected to Roseburg
Medford Lateral Expansion 2/ 5/	GTN	GTN Med. Lateral Expansion #2	25,000	8	3 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Allows NWP cap. to be redirected to Roseburg
Medford Lateral Expansion 2/ 5/	GTN	GTN Med. Lateral Expansion #3	25,000	12	3 years	n/a	Existing GTN Rate	Expansion of Medford lateral with compression. Allows NWP cap. to be redirected to Roseburg
Med. Lat. Klamath Expansion 2/	GTN	GTN Med. Lateral Expansion #4	5,000	4	3 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	4	4 years	n/a	NWP Rate X 5.0	Transport Expansion for Sumas to Medford
NWP Zone 24,26,16,12,9,8 1/	NWP	NWP Rocks to Medford Exp. #1	20,000	4	4 years	n/a	NWP Rate X 5.0	Transport Expansion for Rocks to Medford
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 Transport	CGT/GTN	CA Storage Backhaul #1	10,000	1	<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	1	<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 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.
6/ Transportation resources are assumed to be annual contracts. However, to the extent winter only capcity is available the company will pursue those options.

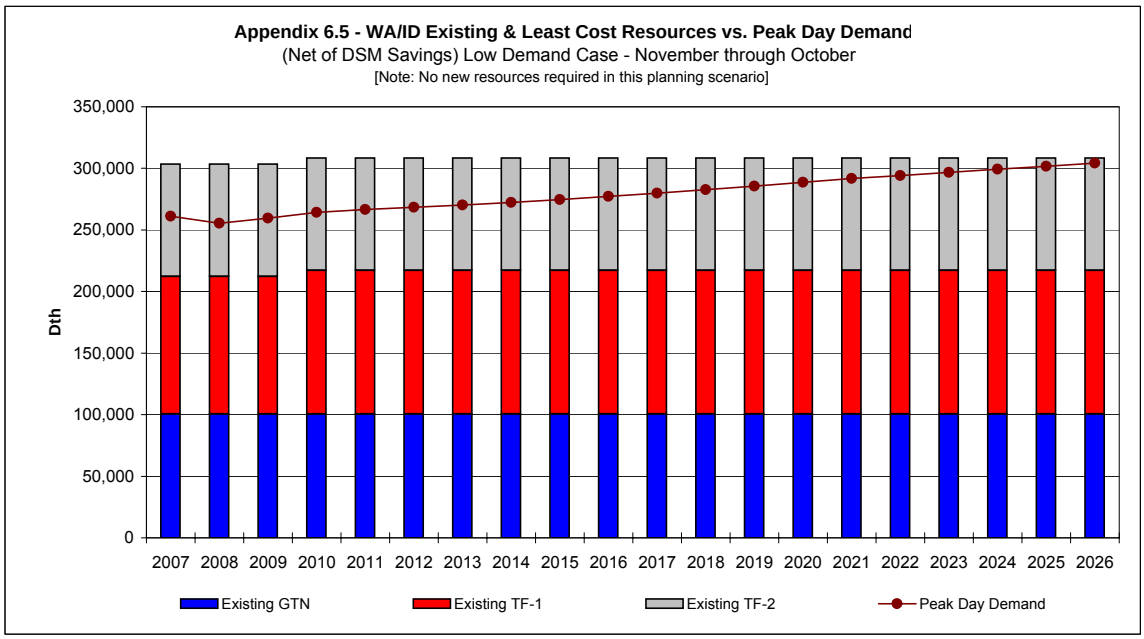
Future Resource Comparisons

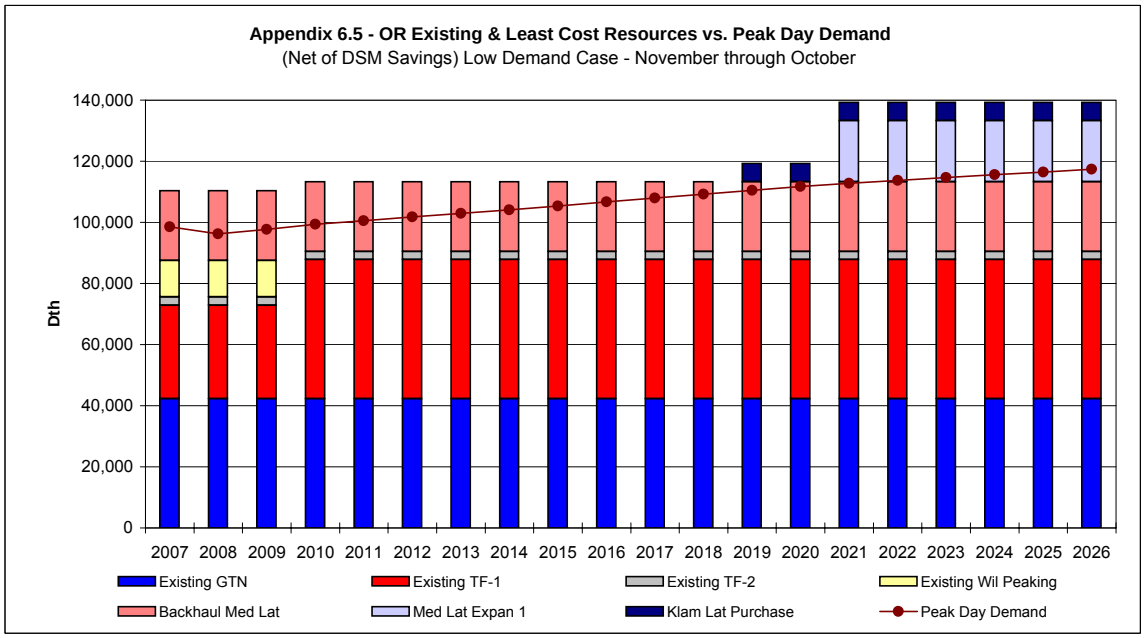
Appendix 6.5


Appendix 6.5 - WA/ID Existing & Least Cost Resources vs. Peak Day Demand
(Net of DSM Savings) High Demand Case - November through October
Dth
500,000
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
2007-2008
2008-2009
2009-2010
2010-2011
2011-2012
2012-2013
2013-2014
2014-2015
2015-2016
2016-2017
2017-2018
2018-2019
2019-2020
2020-2021
2021-2022
2022-2023
2023-2024
2024-2025
2025-2026
2026-2027
Existing GTN
Existing TF-1
Existing TF-2
NWP Expan & GTN Cap Purch 1
Capacity Release Recall
NWP Expan & GTN Cap Purch 2
WA/ID Sat LNG
Peak Day Demand


Appendix 6.5 - OR Existing & Least Cost Resources vs. Peak Day Demand
(Net of DSM Savings) High Demand Case - November through October
Dth
200,000
180,000
160,000
140,000
120,000
100,000
80,000
60,000
40,000
20,000
0
2007-2008
2008-2009
2009-2010
2010-2011
2011-2012
2012-2013
2013-2014
2014-2015
2015-2016
2016-2017
2017-2018
2018-2019
2019-2020
2020-2021
2021-2022
2022-2023
2023-2024
2024-2025
2025-2026
2026-2027
Existing GTN
Existing TF-1
Existing TF-2
Existing Wil Peaking
Backhaul Med Lat
Klam Lat Purchase
La Grande Dist Enhance
Capacity Release Recall
Med Lat Expan 1
Roseburg Sat LNG
Med Lat Expan 2
Klam Dist Enhance
Peak Day Demand

EXISTING AND LEAST COST RESOURCES

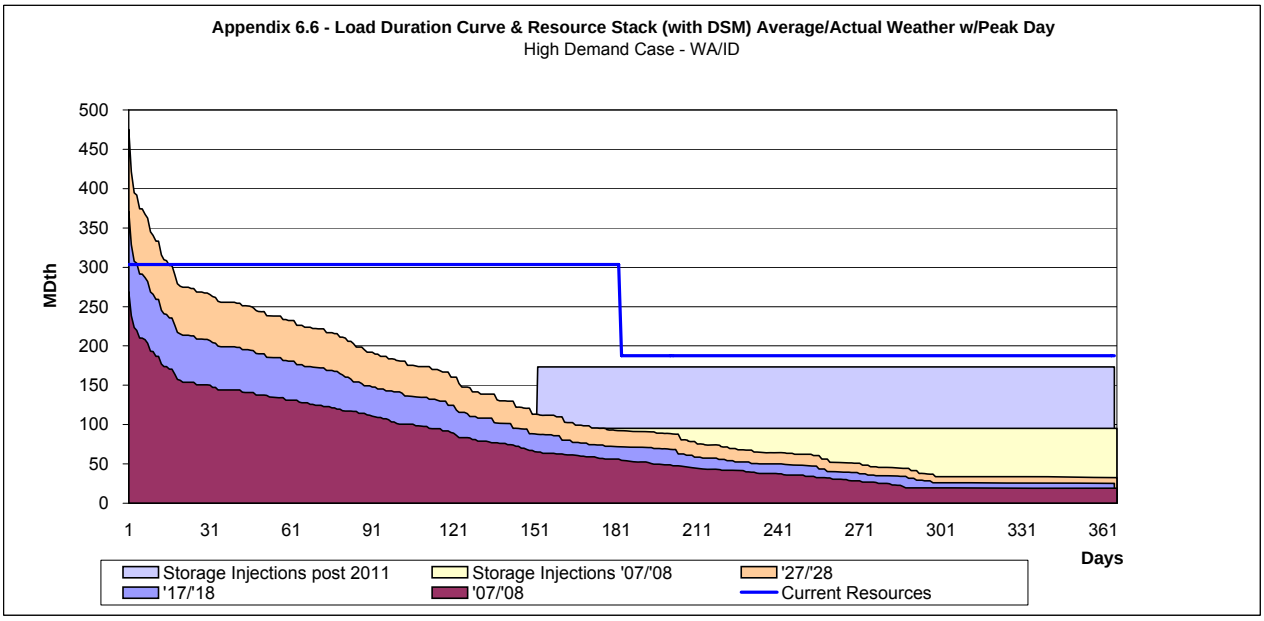


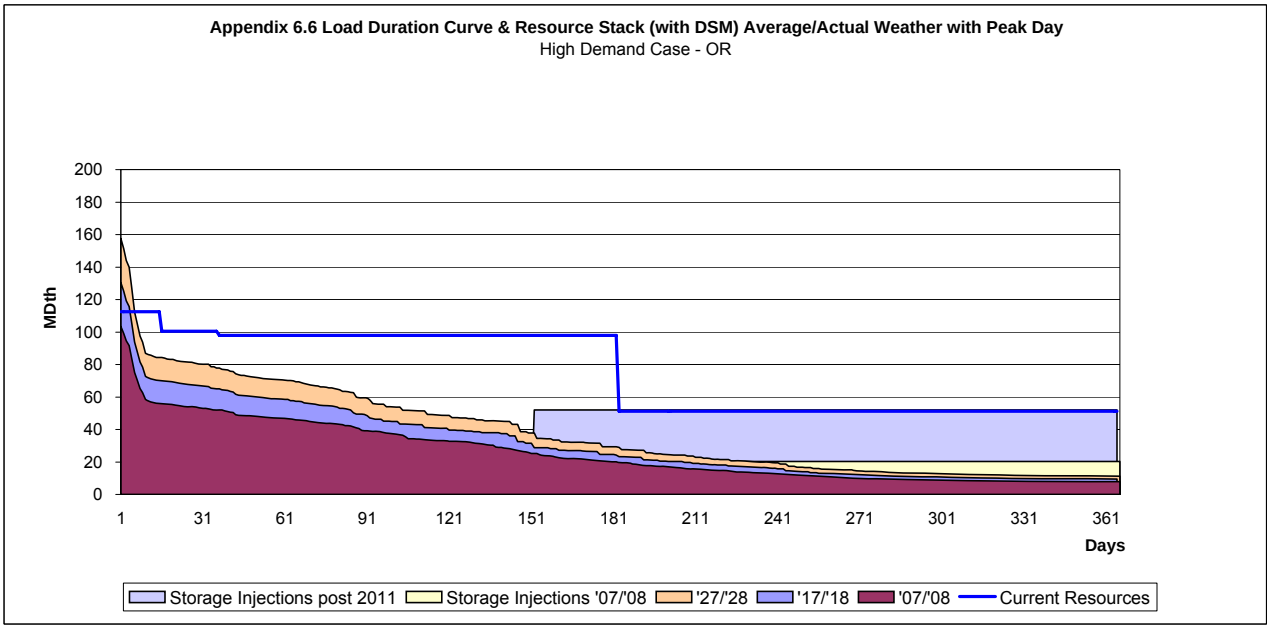


Load Duration Curves

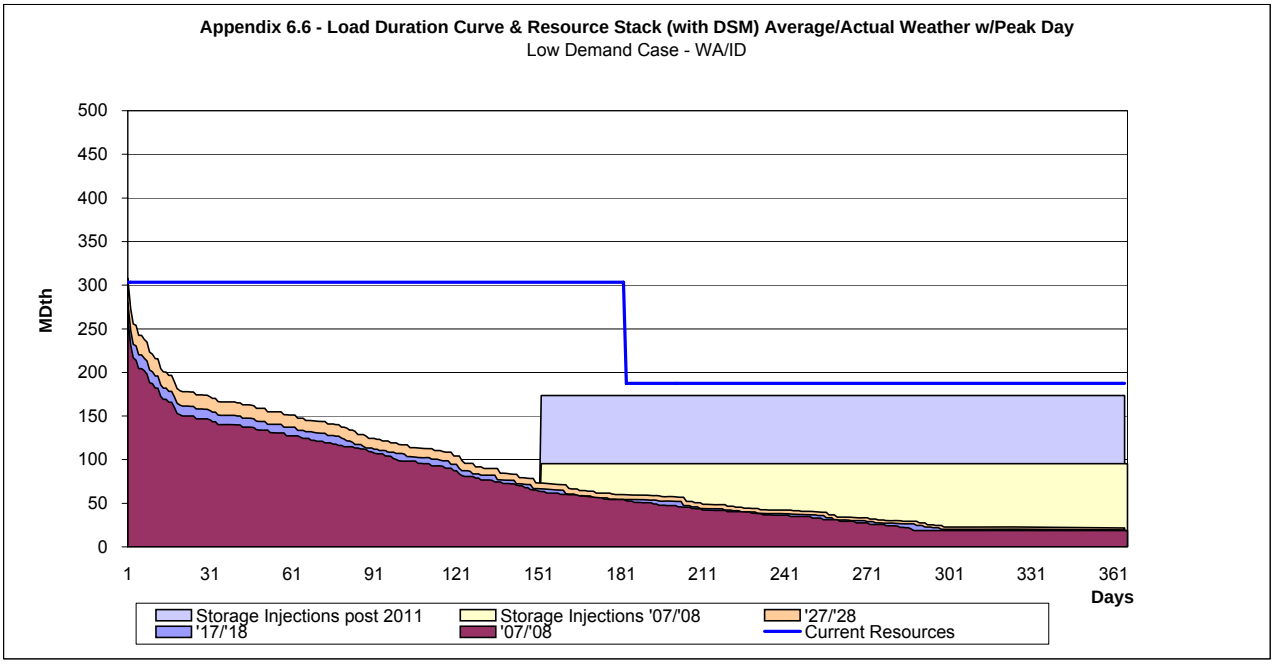
Appendix 6.6

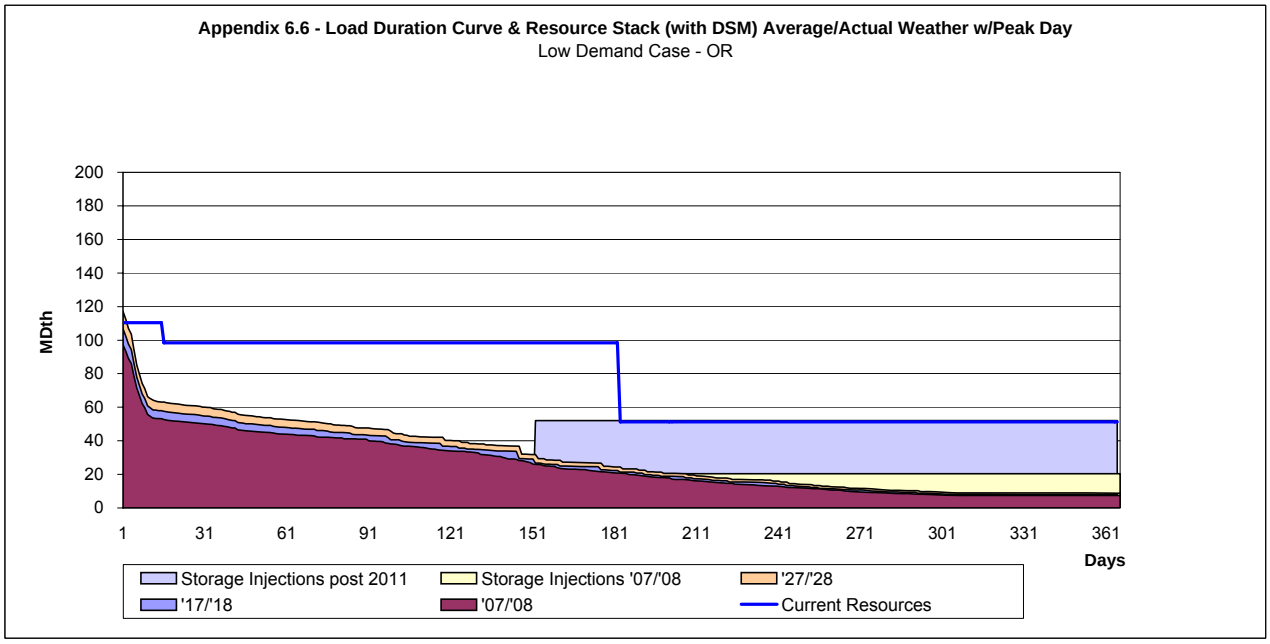
Load Duration Curves





Load Duration Curves





Resource Selections

Appendix 6.7

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

High Demand Case

Item #	Region	Type	Quantity 2/	Timing	Rates/Charges	Description
Washington/Idaho						
1	WA/ID	Capacity Release	20,078	November 2012	NWP TF-1 Rate	Recall long-term capacity releases - 2012
2	WA/ID	Transportation	50,000 - 75,000	November 2011 & 2019	NWP Expansion Rate	WA/ID area expansions to facilitate the delivery in and around Spokane, Lewiston, etc. from GTN into NWP
3	WA/ID	Transportation	50,000	November 2011	TransCanada Rates from Alberta to Stanfield	Acquisition of existing capacity from Alberta to Stanfield on the TransCanada pipelines. Assumed current transportation rates (escalated for inflation). Assumed winter-only capacity on GTN
4	WA/ID	Transportation	75,000	November 2019	TransCanada Rates from Alberta to Stanfield	Acquisition of existing capacity from Alberta to Stanfield on the TransCanada pipelines. Assumed current transportation rates (escalated for inflation). Assumed winter-only capacity on GTN
5	WA/ID	Satelite LNG	15,000	November 2026	Commodity plus Variable	Provides for peaking services and alleviates the need for further costly pipeline construction.
Oregon						
6	OR	Capacity Release	6,700	November 2012	NWP TF-1 Rate	Recall long-term capacity releases - 2012
7	Klamath Falls	Distribution Enhancement	6,000	November 2010	n/a	Purchase of NWP Klamath pipeline segment. Purchase price is approximately $3 MM capital cost. Purchase may occur as early as 2008/2009 and the price can be allocated towards additional infrastructure. Contract capacity is to be relocated elsewhere.
8	La Grande	Distribution Enhancement	4,000	November 2010	n/a	La Grande distribution system enhancement to install high-pressure distribution system looping from adjacent city gate station such that the La Grande distribution system will be reinforced. The expected capital cost for this enhancement is approximately $3MM
9	Medford/Roseburg	Distribution Enhancement	n/a	November 2012	n/a	Distribution system enhancement to allow more GTN-based deliveries to the Medford area. This will allow Avista to redirect NWP Grants Pass Lateral deliveries from Medford to Roseburg. The expected capital cost for this Integrity Management related activity is approximately $14.2MM.
10	Medford/Roseburg	Transportation	25,000	November 2012	GTN's Med. Lat. Rate	GTN expansion of the Medford Lateral. Assumed current lateral rates, escalated for inflation, for expansion. Item #9 above required to facilitate this option.
11	Medford/Roseburg	Transportation	25,000	November 2020	GTN's Med. Lat. Rate	GTN expansion of the Medford Lateral. Assumed current lateral rates, escalated for inflation, for expansion. Item #9 above required to facilitate this option.
12	Roseburg	Satelite LNG	10,000	November 2016	Commodity plus Variable	Supply alleviates Grants Pass Lateral issues and provides peaking services.
13	Klamath Falls	Trasportation	5,000	November 2020	GTN's Med. Lat. Rate	GTN expansion of the Medford Lateral. Assumed current lateral rates, escalated for inflation, for expansion. Item #7 above required to facilitate this option.

1/ Does not include DSM therm savings. Therms associated withDSM programs included in DSM Appendix.
2/ Quantity Dth/d unless othewise noted

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

Low Demand Case

Item #	Region	Type	Quantity 2/	Timing	Rates/Charges	Description
Oregon						
1	Klamath Falls	Distribution Enhancement	6,000	Nov-19	n/a	Purchase of NWP Klamath pipeline segment. Purchase price is approximately $3 MM capital cost. Purchase may occur as early as 2008/2009 and the price can be allocated towards additional infrastructure. Contract capacity is to be relocated elsewhere. Not needed for peak needs in this case but provides other core benefits.
2	Medford/Roseburg	Distribution Enhancement	n/a	Nov-21	n/a	Distribution system enhancement to allow more GTN-based deliveries to the Medford area. This will allow Avista to redirect NWP Grants Pass Lateral deliveries from Medford to Roseburg. The expected capital cost
3	Medford/Roseburg	Transportation	20,000	Nov-21	GTN's Med. Lat. Rate	GTN expansion of the Medford Lateral. Assumed current lateral rates, escalated by inflation, for expansion. Item #2 above required to facilitate this option

1/ Does not include DSM therm savings. Therms associated withDSM programs included in DSM Appendix.
2/ Quantity Dth/d unless othewise noted

Demand-Side Management Savings

Appendix 6.8

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

Case	Gas Year	Annual Klamath DSM (MDth)	Daily Klamath DSM (MDth/d)	Annual LaGrande DSM (MDth)	Daily LaGrande DSM (MDth/d)	Annual Medford DSM (MDth)	Daily Medford DSM (MDth/d)	Annual Roseburg DSM (MDth)	Daily Roseburg DSM (MDth/d)	Annual Oregon DSM (MDth)	Daily Oregon DSM (MDth/d)	Annual WA/ID DSM (MDth)	Daily WA/ID DSM (MDth/d)	Annual Total System DSM (MDth)	Daily Total System DSM (MDth/d)
Expected	**2007-2008**	3.589	0.010	1.695	0.005	11.117	0.030	3.112	0.009	19.513	0.053	67.664	0.185	87.177	0.239
Expected	**2008-2009**	7.408	0.020	3.381	0.009	22.142	0.060	6.202	0.017	39.134	0.107	134.837	0.368	173.971	0.475
Expected	**2009-2010**	11.112	0.030	5.072	0.014	33.214	0.091	9.303	0.025	58.701	0.161	202.255	0.554	260.956	0.715
Expected	**2010-2011**	14.816	0.041	7.044	0.019	44.285	0.121	12.404	0.034	78.549	0.215	269.674	0.739	348.223	0.954
Expected	**2011-2012**	18.580	0.051	8.829	0.024	55.584	0.152	15.561	0.043	98.554	0.269	338.321	0.924	436.875	1.194
Expected	**2012-2013**	22.223	0.061	10.566	0.029	66.427	0.182	18.607	0.051	117.824	0.323	500.544	1.371	618.368	1.694
Expected	**2013-2014**	25.927	0.071	12.327	0.034	77.644	0.213	21.708	0.059	137.606	0.377	694.854	1.904	832.461	2.281
Expected	**2014-2015**	29.789	0.081	14.695	0.040	92.751	0.253	25.609	0.070	162.845	0.445	881.620	2.409	1,044.465	2.854
Expected	**2015-2016**	32.318	0.089	15.868	0.043	104.962	0.288	27.237	0.075	180.385	0.494	1,020.652	2.796	1,201.038	3.291
Expected	**2016-2017**	34.645	0.095	16.937	0.046	110.941	0.304	28.610	0.078	191.134	0.524	1,155.248	3.165	1,346.381	3.689
Expected	**2017-2018**	37.091	0.101	18.063	0.049	117.471	0.321	30.109	0.082	202.734	0.554	1,232.522	3.368	1,435.256	3.921
Expected	**2018-2019**	39.481	0.108	19.181	0.053	125.588	0.344	31.605	0.087	215.855	0.591	1,309.797	3.588	1,525.652	4.180
Expected	**2019-2020**	42.011	0.115	20.359	0.056	132.596	0.363	33.179	0.091	228.145	0.625	1,392.710	3.816	1,620.854	4.441
Expected	**2020-2021**	44.125	0.121	21.356	0.058	137.980	0.377	35.662	0.097	239.124	0.653	1,464.292	4.001	1,703.415	4.654
Expected	**2021-2022**	48.821	0.134	22.407	0.061	143.930	0.394	37.075	0.102	252.232	0.691	1,541.539	4.223	1,793.772	4.914
Expected	**2022-2023**	51.104	0.140	23.383	0.064	149.423	0.409	38.385	0.105	262.296	0.719	1,617.415	4.431	1,879.711	5.150
Expected	**2023-2024**	53.570	0.147	24.424	0.067	155.608	0.426	39.853	0.109	273.454	0.749	1,700.313	4.658	1,973.767	5.408
Expected	**2024-2025**	55.672	0.152	25.334	0.069	160.410	0.438	41.006	0.112	282.422	0.772	1,762.283	4.815	2,044.705	5.587
Expected	**2025-2026**	57.956	0.159	26.309	0.072	165.904	0.455	42.316	0.116	292.485	0.801	1,831.275	5.017	2,123.760	5.819
Expected	**2026-2027**	60.221	0.165	27.280	0.075	171.243	0.469	43.603	0.119	302.348	0.828	1,900.267	5.206	2,202.615	6.035

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/d)	Annual LaGrande DSM (MDth)	Daily LaGrande DSM (MDth/d)	Annual Medford DSM (MDth)	Daily Medford DSM (MDth/d)	Annual Roseburg DSM (MDth)	Daily Roseburg DSM (MDth/d)	Annual Oregon DSM (MDth)	Daily Oregon DSM (MDth/d)	Annual WA/ID DSM (MDth)	Daily WA/ID DSM (MDth/d)	Annual Total System DSM (MDth)	Daily Total System DSM (MDth/d)
High	**2007-2008**	3.589	0.010	1.695	0.005	11.117	0.030	3.112	0.009	19.513	0.053	67.664	0.185	87.177	0.239
High	**2008-2009**	7.408	0.020	3.381	0.009	22.142	0.060	6.202	0.017	39.134	0.107	134.837	0.368	173.971	0.475
High	**2009-2010**	11.112	0.030	5.072	0.014	33.214	0.091	9.303	0.025	58.701	0.161	202.255	0.554	260.956	0.715
High	**2010-2011**	14.816	0.041	6.763	0.019	44.285	0.121	12.404	0.034	78.268	0.214	269.674	0.739	347.942	0.953
High	**2011-2012**	18.580	0.051	8.829	0.024	55.584	0.152	15.561	0.043	98.554	0.269	338.321	0.924	436.875	1.194
High	**2012-2013**	22.223	0.061	10.566	0.029	66.427	0.182	18.607	0.051	117.824	0.323	457.131	1.252	574.954	1.575
High	**2013-2014**	25.927	0.071	12.327	0.034	77.508	0.212	21.716	0.059	137.478	0.377	587.382	1.609	724.860	1.986
High	**2014-2015**	29.669	0.081	14.088	0.038	92.245	0.252	25.712	0.070	161.714	0.442	881.074	2.407	1,042.788	2.849
High	**2015-2016**	32.269	0.088	15.848	0.043	105.939	0.290	28.100	0.077	182.157	0.499	1,043.901	2.860	1,226.058	3.359
High	**2016-2017**	34.592	0.095	16.937	0.046	112.107	0.307	29.584	0.081	193.220	0.529	1,129.535	3.095	1,322.755	3.624
High	**2017-2018**	37.030	0.101	18.049	0.049	118.880	0.325	31.168	0.085	205.128	0.560	1,232.522	3.368	1,437.650	3.928
High	**2018-2019**	39.481	0.108	19.181	0.053	125.588	0.344	32.710	0.090	216.960	0.594	1,309.797	3.588	1,526.756	4.183
High	**2019-2020**	42.011	0.115	20.349	0.056	132.596	0.363	34.381	0.094	229.338	0.628	1,392.710	3.816	1,622.047	4.444
High	**2020-2021**	44.125	0.121	21.356	0.058	137.980	0.377	35.662	0.097	239.124	0.653	1,464.292	4.001	1,703.415	4.654
High	**2021-2022**	46.380	0.127	22.407	0.061	143.930	0.394	37.075	0.102	249.791	0.684	1,541.539	4.223	1,791.331	4.908
High	**2022-2023**	51.104	0.140	23.383	0.064	149.423	0.409	38.385	0.105	262.296	0.719	1,617.415	4.431	1,879.711	5.150
High	**2023-2024**	53.570	0.147	24.424	0.067	155.608	0.426	39.853	0.109	273.454	0.749	1,700.313	4.658	1,973.767	5.408
High	**2024-2025**	55.672	0.152	25.334	0.069	160.410	0.438	41.006	0.112	282.422	0.772	1,762.283	4.815	2,044.705	5.587
High	**2025-2026**	57.956	0.159	26.309	0.072	165.904	0.455	42.316	0.116	292.485	0.801	1,831.275	5.017	2,123.760	5.819
High	**2026-2027**	60.221	0.165	27.280	0.075	171.243	0.469	43.603	0.119	302.348	0.828	1,900.267	5.206	2,202.615	6.035

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/d)	Annual LaGrande DSM (MDth)	Daily LaGrande DSM (MDth/d)	Annual Medford DSM (MDth)	Daily Medford DSM (MDth/d)	Annual Roseburg DSM (MDth)	Daily Roseburg DSM (MDth/d)	Annual Oregon DSM (MDth)	Daily Oregon DSM (MDth/d)	Annual WA/ID DSM (MDth)	Daily WA/ID DSM (MDth/d)	Annual Total System DSM (MDth)	Daily Total System DSM (MDth/d)
Low	**2007-2008**	3.589	0.010	1.695	0.005	11.117	0.030	3.112	0.009	19.513	0.053	67.664	0.185	87.177	0.239
Low	**2008-2009**	7.408	0.020	3.381	0.009	22.142	0.060	6.202	0.017	39.134	0.107	134.837	0.368	173.971	0.475
Low	**2009-2010**	11.112	0.030	5.072	0.014	33.214	0.091	9.303	0.025	58.701	0.161	202.255	0.554	260.956	0.715
Low	**2010-2011**	14.816	0.041	7.044	0.019	44.285	0.121	12.404	0.034	78.549	0.215	269.674	0.739	348.223	0.954
Low	**2011-2012**	18.580	0.051	8.829	0.024	55.584	0.152	15.561	0.043	98.554	0.269	419.532	1.146	518.087	1.416
Low	**2012-2013**	22.252	0.061	10.566	0.029	68.291	0.187	18.607	0.051	119.716	0.328	603.431	1.653	723.147	1.981
Low	**2013-2014**	26.065	0.071	12.859	0.035	81.157	0.222	22.490	0.062	142.571	0.391	772.054	2.115	914.625	2.506
Low	**2014-2015**	29.840	0.082	14.713	0.040	92.922	0.254	25.702	0.070	163.178	0.446	924.198	2.525	1,087.376	2.971
Low	**2015-2016**	32.415	0.089	15.871	0.043	105.297	0.288	27.316	0.075	180.900	0.496	1,043.901	2.860	1,224.801	3.356
Low	**2016-2017**	34.700	0.095	16.953	0.046	111.453	0.305	28.706	0.079	191.812	0.526	1,155.248	3.165	1,347.060	3.691
Low	**2017-2018**	37.091	0.101	18.067	0.049	119.137	0.326	30.155	0.082	204.450	0.559	1,232.522	3.368	1,436.972	3.926
Low	**2018-2019**	39.481	0.108	19.190	0.053	125.588	0.344	31.605	0.087	215.864	0.591	1,309.797	3.588	1,525.660	4.180
Low	**2019-2020**	42.011	0.115	20.359	0.056	132.596	0.363	34.381	0.094	229.347	0.628	1,392.710	3.816	1,622.057	4.444
Low	**2020-2021**	46.403	0.127	21.356	0.058	137.980	0.377	35.662	0.097	241.402	0.660	1,464.292	4.001	1,705.694	4.660
Low	**2021-2022**	48.821	0.134	22.407	0.061	143.930	0.394	37.075	0.102	252.232	0.691	1,541.539	4.223	1,793.772	4.914
Low	**2022-2023**	51.104	0.140	23.383	0.064	149.423	0.409	38.385	0.105	262.296	0.719	1,617.415	4.431	1,879.711	5.150
Low	**2023-2024**	53.570	0.147	24.424	0.067	155.608	0.426	39.853	0.109	273.454	0.749	1,700.313	4.658	1,973.767	5.408
Low	**2024-2025**	55.672	0.152	25.334	0.069	160.410	0.438	41.006	0.112	282.422	0.772	1,762.283	4.815	2,044.705	5.587
Low	**2025-2026**	57.956	0.159	26.309	0.072	165.904	0.455	42.316	0.116	292.485	0.801	1,831.275	5.017	2,123.760	5.819
Low	**2026-2027**	60.221	0.165	27.280	0.075	176.733	0.484	43.603	0.119	307.837	0.843	1,900.267	5.206	2,208.104	6.050

Demand-Side Management Selected Measures

Appendix 6.9

Appendix 6.9 - Washington/Idaho Preliminary Evaluation Results

Program	WA/ID
Energy Star Pressure SteamerNon-residentialcooking	Must Take
Programmable ThermostatsNon-residentialHVAC	Must Take
Radiant heatNon-residentialHVAC	Must Take
Low Flow ShowerheadsNon-residentialDHW	Must Take
Pool blanketResidentialDHW	Must Take
Programmable ThermostatResidentialHVAC	Must Take
Wall insulationNon-residentialshell	Must Take
Pool blanketNon-residentialpool	Must Take
Pool blanketResidentialDHW	Must Take
horizontal axis clothes washerResidentialappliances	Must Take
CrematoriaNon-residentialcrematoria	Must Take
Programmable ThermostatResidentialHVAC	Must Take
Roof insulationNon-residentialshell	Must Take
Pizza / Deck OvenNon-residentialcooking	Must Take
Warm Up ControlNon-residentialHVAC	Must Take
Coin-Op Gas Clothers DryerNon-residentialappliances	Must Take
Demand control ventilationNon-residentialHVAC	Must Take
Conveyer BroilerNon-residentialcooking	Must Take
CheesemelterNon-residentialcooking	Must Take
SalamanderNon-residentialcooking	Must Take
Tankless Water HeaterNon-residentialDHW	Must Take
Fireplace dampersResidentialshell	Must Take
Vent DamperNon-residentialHVAC	Must Take
Comm. Gas Clothes DryerNon-residentialappliances	Must Take
BoilerNon-residentialDHW	Must Take
Condensing Storage Water HeaterNon-residentialDHW	Must Take
KilnNon-residentialkiln	Must Take
Boiler Tune-upNon-residentialHVAC	Must Take
Duct sealingResidentialHVAC	Must Take
High efficiency boilerResidentialHVAC	Must Take
high Efficiency furnaceResidentialHVAC	Must Take
Walls insulationResidentialshell	Must Take
Window (WA/ID)Residentialshell	Must Take
Attic insulationResidentialshell	Must Take
Duct sealingResidentialHVAC	Must Take
Condensing BoilerNon-residentialDHW	Must Take
Duct insulation retrofitResidentialHVAC	Must Take
Recirculation ControlsNon-residentialDHW	Must Take
CharbroilerNon-residentialcooking	Must Take
Recirculation ControlsNon-residentialHVAC	Must Take
Occupancy sensors for PTAC unitsNon-residentialHVAC	Must Take
Duct insulation retrofitResidentialHVAC	Must Take

Appendix 6.9 - Washington/Idaho Preliminary Evaluation Results

Program	WA/ID
Floor insulationResidentialshell	SENDOUT®
Condensing Tank Water HeaterNon-residentialDHW	SENDOUT®
BBQ / Rotisserie OvenNon-residentialcooking	SENDOUT®
High efficiency furnaceResidentialHVAC	SENDOUT®
Wall insulationResidentialshell	SENDOUT®
Window (WA/ID)Residentialshell	SENDOUT®
Condensing boilerResidentialDHW	SENDOUT®
Condensing boilerResidentialHVAC	SENDOUT®
Air sealing weatherstrippingResidentialshell	SENDOUT®
Air sealing weatherstrippingResidentialshell	SENDOUT®
Floor insulationResidentialshell	SENDOUT®
Tankless water heaterResidentialDHW	SENDOUT®
Convection OvenNon-residentialcooking	SENDOUT®
Coin-op clothes washerNon-residentialappliances	SENDOUT®
Attic insulationResidentialshell	SENDOUT®
Power BurnerNon-residentialHVAC	SENDOUT®
Gas Pool HeaterNon-residentialpool	SENDOUT®
Gas Pool HeaterResidentialHVAC	SENDOUT®
Gas Pool HeaterResidentialHVAC	SENDOUT®
Energy recovery ventilationNon-residentialHVAC	SENDOUT®
Rack / Tray OvenNon-residentialcooking	SENDOUT®
Infrared Fryer GriddleNon-residentialcooking	Screened Out
Combi OvenNon-residentialcooking	Screened Out
Infrared General Purpose FryerNon-residentialcooking	Screened Out
Direct vent gas unit heaterResidentialHVAC	SENDOUT®
Energy Star HomeResidentialwhole home	Screened Out
Direct vent gas unit heaterResidentialHVAC	SENDOUT®
Exterior doorsResidentialshell	Screened Out
Exterior doorsResidentialshell	Screened Out
Revolving OvenNon-residentialcooking	Screened Out
Pipe insulationResidentialDHW	Screened Out
Pipe insulationResidentialDHW	Screened Out
Passive solar water heatingResidentialDHW	Screened Out
Passive solar water heatingResidentialDHW	Screened Out
Oven ConveyerNon-residentialcooking	Screened Out
Window retrofitNon-residentialshell	Screened Out
Solar waterNon-residentialDHW	Screened Out
Salamander (Broiler)Non-residentialcooking	Screened Out
Comm clothes washerNon-residentialappliances	Screened Out
Cheesemelter (broiler)Non-residentialcooking	Screened Out
Gas Spa HeaterNon-residentialpool	Screened Out
Gas Spa HeaterResidentialHVAC	Screened Out
Gas Spa HeaterResidentialHVAC	Screened Out
Open BurnerNon-residentialcooking	Screened Out
Combo boiler (hydronic)ResidentialDHW	Screened Out
Combo boiler (air)ResidentialDHW	Screened Out
Exterior doorsResidentialshell	Screened Out
Exterior doorsResidentialshell	Screened Out

Appendix 6.9 - Oregon Program Preliminary Evaluation Results

Program	Roseburg	Medford	LaGrande	Klamath Falls
Wall insulationResidentialshell	Mandated	Mandated	Mandated	Mandated
Floor insulationResidentialshell	Mandated	Mandated	Mandated	Mandated
Attic insulationResidentialshell	Mandated	Mandated	Mandated	Mandated
Air sealing weatherstrippingResidentialshell	Mandated	Mandated	Mandated	Mandated
Pre-rinse sprayersNon-residentialDHW	Must Take	Must Take	Must Take	Must Take
horizontal axis clothes washerResidentialappliances	Must Take	Must Take	Must Take	Must Take
Energy Star Pressure SteamerNon-residentialcooking	Must Take	Must Take	Must Take	Must Take
Programmable ThermostatsNon-residentialHVAC	Must Take	Must Take	Must Take	Must Take
Radiant heatNon-residentialHVAC	Must Take	Must Take	Must Take	Must Take
Pool blanket - MFHResidentialDHW	Must Take	Must Take	Must Take	Must Take
Programmable ThermostatResidentialHVAC	Must Take	Must Take	Must Take	Must Take
Pool blanket - Non resNon-residentialpool	Must Take	Must Take	Must Take	Must Take
Pool blanket - SFHResidentialDHW	Must Take	Must Take	Must Take	Must Take
CrematoriaNon-residentialcrematoria	Must Take	Must Take	Must Take	Must Take
Wall insulationNon-residentialshell	Must Take	Must Take	Must Take	Must Take
Coin-Op Gas Clothers DryerNon-residentialappliances	Must Take	Must Take	Must Take	Must Take
Pizza / Deck OvenNon-residentialcooking	Must Take	Must Take	Must Take	Must Take
Roof insulationNon-residentialshell	Must Take	Must Take	Must Take	Must Take
Programmable ThermostatResidentialHVAC	Must Take	Must Take	Must Take	Must Take
Conveyer BroilerNon-residentialcooking	Must Take	Must Take	Must Take	Must Take
CheesemelterNon-residentialcooking	Must Take	Must Take	Must Take	Must Take
SalamanderNon-residentialcooking	Must Take	Must Take	Must Take	Must Take
Demand control ventilationNon-residentialHVAC	Must Take	Must Take	Must Take	Must Take
Warm Up ControlNon-residentialHVAC	Must Take	Must Take	Must Take	Must Take
Tankless Water HeaterNon-residentialDHW	Must Take	Must Take	Must Take	Must Take
BoilerNon-residentialDHW	Must Take	Must Take	Must Take	Must Take
KilnNon-residentialkiln	Must Take	Must Take	Must Take	Must Take
Comm. Gas Clothes DryerNon-residentialappliances	Must Take	Must Take	Must Take	Must Take
Condensing Storage Water HeaterNon-residentialDHW	Must Take	Must Take	Must Take	Must Take
High efficiency boilerResidentialDHW	Must Take	Must Take	Must Take	Must Take
Fireplace dampersResidentialshell	Must Take	Must Take	Must Take	Must Take
high Efficiency furnaceResidentialHVAC	Must Take	Must Take	Must Take	Must Take
Vent DamperNon-residentialHVAC	Must Take	Must Take	Must Take	Must Take
Condensing BoilerNon-residentialDHW	Must Take	Must Take	Must Take	Must Take
Duct sealing - SFHResidentialHVAC	Must Take	Must Take	Must Take	Must Take
High efficiency boilerResidentialHVAC	Must Take	Must Take	Must Take	Must Take
CharbroilerNon-residentialcooking	Must Take	Must Take	Must Take	Must Take
Recirculation ControlsNon-residentialDHW	Must Take	Must Take	Must Take	Must Take
Condensing Tank Water HeaterNon-residentialDHW	Must Take	Must Take	Must Take	Must Take
Boiler Tune-upNon-residentialHVAC	Must Take	Must Take	Must Take	Must Take
BBQ / Rotisserie OvenNon-residentialcooking	Must Take	Must Take	Must Take	Must Take
Duct sealing - MFHResidentialHVAC	Must Take	Must Take	Must Take	Must Take
Recirculation ControlsNon-residentialHVAC	Must Take	Must Take	Must Take	Must Take
Duct commissioningResidentialHVAC	Must Take	Must Take	Must Take	Must Take
High efficiency furnaceResidentialHVAC	Must Take	Must Take	Must Take	Must Take
Occupancy sensors for PTAC unitsNon-residentialHVAC	Must Take	Must Take	Must Take	Must Take

Appendix 6.9 - Oregon Program Preliminary Evaluation Results

Program	Roseburg	Medford	LaGrande	Klamath Falls
Convection OvenNon-residentialcooking	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Tankless water heaterResidentialDHW	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Rack / Tray OvenNon-residentialcooking	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Infrared Fryer GriddleNon-residentialcooking	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Gas Pool HeaterNon-residentialpool	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Gas Pool HeaterResidentialHVAC	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Gas Pool HeaterResidentialHVAC	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Energy recovery ventilationNon-residentialHVAC	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Combi OvenNon-residentialcooking	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Infrared General Purpose FryerNon-residentialcooking	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Power BurnerNon-residentialHVAC	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Revolving OvenNon-residentialcooking	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Energy Star HomeResidentialwhole home	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Exterior doorsResidentialshell	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Exterior doorsResidentialshell	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Direct vent gas unit heaterResidentialHVAC	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Direct vent gas unit heaterResidentialHVAC	Screened Out	Screened Out	Screened Out	Screened Out
Window retrofitNon-residentialshell	SENDOUT®	SENDOUT®	SENDOUT®	SENDOUT®
Coin-op clothes washerNon-residentialappliances	Screened Out	Screened Out	Screened Out	Screened Out
Passive solar water heatingResidentialDHW	Screened Out	Screened Out	Screened Out	Screened Out
Passive solar water heatingResidentialDHW	Screened Out	Screened Out	Screened Out	Screened Out
Oven ConveyerNon-residentialcooking	Screened Out	Screened Out	Screened Out	Screened Out
Comm clothes washerNon-residentialappliances	Screened Out	Screened Out	Screened Out	Screened Out
Salamander (Broiler)Non-residentialcooking	Screened Out	Screened Out	Screened Out	Screened Out
Solar waterNon-residentialDHW	Screened Out	Screened Out	Screened Out	Screened Out
Cheesemelter (broiler)Non-residentialcooking	Screened Out	Screened Out	Screened Out	Screened Out
Gas Spa HeaterNon-residentialpool	Screened Out	Screened Out	Screened Out	Screened Out
Open BurnerNon-residentialcooking	Screened Out	Screened Out	Screened Out	Screened Out
Combo boiler (hydronic)ResidentialDHW	Screened Out	Screened Out	Screened Out	Screened Out
Gas Spa HeaterResidentialHVAC	Screened Out	Screened Out	Screened Out	Screened Out
Gas Spa HeaterResidentialHVAC	Screened Out	Screened Out	Screened Out	Screened Out
Combo boiler (air)ResidentialDHW	Screened Out	Screened Out	Screened Out	Screened Out
Exterior doorsResidentialshell	Screened Out	Screened Out	Screened Out	Screened Out
Exterior doorsResidentialshell	Screened Out	Screened Out	Screened Out	Screened Out

Demand-Side Management Programs – OR Only

Appendix 6.10

Appendix 6.10 - Oregon Measure Final Status and Resource Acquisition

Measure	Sector	Incremental measure cost	Measure life	Energy savings/unit	Non-Energy benefits	Levelized TRC	2007/2008 Annual acquisition	CY 2008 unit goal	CY 2008 therm goal	CY 2009 unit goal	CY 2009 therm goal	Category	Final status
Wall insulation	Residential	$ 744	45	66	$ -	$ 1.03	1,992	34	2,254	39	2,563	Dark green	Mandated
Air sealing weatherstripping	Residential	$ 250	10	38	$ -	$ 1.03	948	28	1,073	32	1,220	Dark green	Mandated
Floor insulation	Residential	$ 1,244	45	96	$ -	$ 1.19	7,698	91	8,714	103	9,906	Dark green	Mandated
Attic insulation	Residential	$ 666	45	44	$ -	$ 1.38	7,872	201	8,910	229	10,129	Dark green	Mandated
Pre-rinse sprayers	Non-residential	$ 10	5	176	$ 91	$ (0.12)	70,400	400	70,400	-	-	Green	Special pass
Energy Star Pressure Steamer	Non-residential	$ 111	20	643	$ -	$ 0.02	1,286	2	1,290	2	1,326	Green	Spreadsheet pass
Programmable Thermostats	Non-residential	$ 25	20	117	$ -	$ 0.02	1,172	10	1,176	10	1,209	Green	Spreadsheet pass
Radiant heat	Non-residential	$ 25	20	117	$ -	$ 0.02	586	5	588	5	604	Green	Spreadsheet pass
horizontal axis clothes washer	Residential	$ 70	13	17	$ 61	$ 0.07	6,800	453	7,697	515	8,750	Green	Spreadsheet pass
Pool blanket - MFH	Residential	$ 25	20	41	$ -	$ 0.07	0	-	-	-	-	Green	Spreadsheet pass
Programmable Thermostat	Residential	$ 25	20	31	$ -	$ 0.09	0	-	-	-	-	Green	Spreadsheet pass
Pool blanket - Non res	Non-residential	$ 2,200	10	2,720	$ -	$ 0.13	2,720	1	2,729	1	2,805	Green	Spreadsheet pass
Pool blanket - SFH	Residential	$ 1,100	10	1,360	$ -	$ 0.13	1,360	1	1,539	1	1,750	Green	Spreadsheet pass
Crematoria	Non-residential	$ 9,672	30	5,537	$ -	$ 0.17	0	-	-	-	-	Green	Spreadsheet pass
Coin-Op Gas Clothers Dryer	Non-residential	$ 613	11	419	$ 144	$ 0.16	1,257	3	1,261	3	1,296	Green	Spreadsheet pass
Wall insulation	Non-residential	$ 0	30	0	$ -	$ 0.17	1	5	1	5	1	Green	Spreadsheet pass
Pizza / Deck Oven	Non-residential	$ 466	20	256	$ -	$ 0.20	256	1	257	1	264	Green	Spreadsheet pass
Programmable Thermostat	Residential	$ 25	20	12	$ -	$ 0.22	309	28	350	32	398	Green	Spreadsheet pass
Conveyer Broiler	Non-residential	$ 1,182	15	661	$ -	$ 0.22	661	1	663	1	682	Green	Spreadsheet pass
Roof insulation	Non-residential	$ 0	30	0	$ -	$ 0.24	1	5	1	5	1	Green	Spreadsheet pass
Cheesemelter	Non-residential	$ 408	15	203	$ -	$ 0.25	203	1	204	1	209	Green	Spreadsheet pass
Warm Up Control	Non-residential	$ 300	10	180	$ -	$ 0.26	180	1	180	1	185	Green	Spreadsheet pass
Salamander	Non-residential	$ 300	15	137	$ -	$ 0.27	137	1	137	1	141	Green	Spreadsheet pass
Demand control ventilation	Non-residential	$ 1	20	0	$ -	$ 0.30	1	3	1	3	1	Green	Spreadsheet pass
Tankless Water Heater	Non-residential	$ 600	20	211	$ -	$ 0.31	1,055	5	1,058	5	1,088	Green	Spreadsheet pass
Comm. Gas Clothes Dryer	Non-residential	$ 1,586	11	740	$ -	$ 0.31	740	1	742	1	763	Green	Spreadsheet pass
Boiler	Non-residential	$ 11,928	20	3,854	$ -	$ 0.34	3,854	1	3,867	1	3,975	Green	Spreadsheet pass
Condensing Storage Water Heater	Non-residential	$ 848	15	308	$ -	$ 0.34	308	1	309	1	318	Green	Spreadsheet pass
Kiln	Non-residential	$ 199	30	49	$ -	$ 0.39	0	-	-	-	-	Green	Spreadsheet pass
Fireplace dampers	Residential	$ 500	15	150	$ -	$ 0.41	3,748	28	4,243	32	4,823	Green	Spreadsheet pass
Vent Damper	Non-residential	$ 304	12	101	$ -	$ 0.42	0	-	-	-	-	Green	Spreadsheet pass
High efficiency boiler	Residential	$ 160	20	40	$ -	$ 0.44	40	1	45	1	51	Green	Spreadsheet pass
High efficiency space heater	Residential	$ 275	20	64	$ -	$ 0.47	322	6	364	6	414	Green	Spreadsheet pass
Condensing Boiler	Non-residential	$ 36,701	20	7,524	$ -	$ 0.53	7,524	1	7,549	1	7,760	Green	Spreadsheet pass
Recirculation Controls	Non-residential	$ 1,311	10	386	$ -	$ 0.53	386	1	387	1	398	Green	Spreadsheet pass
Boiler Tune-up	Non-residential	$ 100	5	50	$ -	$ 0.51	50	1	50	1	51	Green	Spreadsheet pass
Charbroiler	Non-residential	$ 1,313	15	298	$ -	$ 0.55	298	1	299	1	307	Green	Spreadsheet pass
Duct sealing - SFH	Residential	$ 500	20	94	$ -	$ 0.58	4,687	57	5,305	64	6,031	Green	Spreadsheet pass
High efficiency boiler	Residential	$ 160	20	30	$ -	$ 0.58	30	1	34	1	39	Green	Spreadsheet pass
Condensing Tank Water Heater	Non-residential	$ 3,855	15	771	$ -	$ 0.62	771	1	774	1	795	Green	Spreadsheet pass
BBQ / Rotisserie Oven	Non-residential	$ 1,003	15	198	$ -	$ 0.63	198	1	199	1	204	Green	Spreadsheet pass
Duct sealing - MFH	Residential	$ 300	20	47	$ -	$ 0.70	235	6	266	6	302	Green	Spreadsheet pass
Duct commissioning	Residential	$ 300	20	45	$ -	$ 0.73	449	11	508	13	578	Green	Spreadsheet pass
Recirculation Controls	Non-residential	$ 200	25	26	$ -	$ 0.77	26	1	26	1	27	Green	Spreadsheet pass
High efficiency furnace	Residential	$ 450	20	64	$ -	$ 0.76	64,400	1,132	72,895	1,287	82,865	Green	Spreadsheet pass
Occupancy sensors for PTAC units	Non-residential	$ 200	20	26	$ -	$ 0.86	0	-	-	-	-	Green	Spreadsheet pass
Tankless water heater	Residential	$ 700	15	102	$ -	$ 0.85	7,650	85	8,659	97	9,843	Yellow	SENDOUT pass
Convection Oven	Non-residential	$ 2,696	20	324	$ -	$ 0.91	324	1	325	1	334	Yellow	SENDOUT pass
Rack / Tray Oven	Non-residential	$ 9,709	20	1,013	$ -	$ 1.05	1,013	1	1,016	1	1,045	Yellow	SENDOUT pass
Infrared Fryer Griddle	Non-residential	$ 2,146	20	194	$ -	$ 1.21	194	1	195	1	200	Yellow	SENDOUT pass
Combi Oven	Non-residential	$ 1,667	15	164	$ -	$ 1.26	164	1	165	1	169	Yellow	SENDOUT pass
Power Burner	Non-residential	$ 913	12	101	$ -	$ 1.26	101	1	101	1	104	Yellow	SENDOUT pass
Gas Pool Heater	Non-residential	$ 3,364	20	280	$ -	$ 1.32	280	1	280	1	288	Yellow	SENDOUT pass
Gas Pool Heater, SFH	Residential	$ 3,364	20	280	$ -	$ 1.32	280	1	316	1	360	Yellow	SENDOUT pass
Gas Pool Heater, MFH	Residential	$ 3,364	20	280	$ -	$ 1.32	280	1	316	1	360	Yellow	SENDOUT pass
Energy recovery ventilation	Non-residential	$ 4	20	0	$ -	$ 1.33	2	5	2	5	2	Yellow	SENDOUT pass
Infrared General Purpose Fryer	Non-residential	$ 3,186	15	300	$ -	$ 1.32	300	1	301	1	309	Yellow	SENDOUT pass
Revolving Oven	Non-residential	$ 4,870	20	364	$ -	$ 1.46	364	1	365	1	375	Yellow	SENDOUT pass
Energy Star Home	Residential	$ 2,870	31	145	$ -	$ 1.90	7,272	57	8,231	64	9,357	Yellow	SENDOUT fail
Exterior doors	Residential	$ 100	30	5	$ -	$ 1.95	0	0	0	0	0	Yellow	SENDOUT pass
Exterior doors	Residential	$ 100	30	5	$ -	$ 1.95	0	0	0	0	0	Yellow	SENDOUT pass

	CY 2008 therms	CY 2009 therms
SENDOUT-accepted residential programs	123,491	140,381
SENDOUT-accepted non-residential programs	26,498	27,240
Estimated site-specific acquisition	56,808	58,399
Adjustment for non-res porgram duplication	(2,650)	(2,724)
Estimated pre-rinse sprayer acquisition	70,400	-
Enhanced commercial / industrial delivery	75,000	75,000
	349,547	298,296

Oregon Public Utility Commission IRP Standard and Guidelines

Appendix 6.11

Appendix 6.11 Oregon Public Utility Commission IRP Standard and Guidelines

Guideline Number	Description of Requirement	Fulfillment of Requirement
Guideline 1: Substantive Requirements		
1.a.1	All resources must be evaluated on a consistent and comparable basis.	All resource options including Demand side and Supply side are modeled in SENDOUT utilizing the same common assumptions, approach and methodology.
1.a.2	All known resources for meeting the utility's load should be considered, including supply-side options which focus on the generation, purchase and transmission of power – or gas purchases, transportation, and storage – and demand-side options which focus on conservation and demand response.	Avista considered a range of resources including demand-side management, distribution system enhancements, interstate pipeline transportation, transport backhauls, and storage options including liquefied natural gas. Chapter 3 and Appendix 6.10 and 6.11 documents Avista's demand-side management resources considered. Chapter 5 and Appendix 6.4 documents supply-side resources. Chapter 6 documents how Avista developed and assessed each of these resources.
1.a.3	Utilities should compare different resource fuel types, technologies, lead times, in-service dates, durations and locations in portfolio risk modeling.	Avista considered various combinations of technologies, lead times, in-service dates, durations, and locations. Chapter 6 provides details about the modeling methodology and results. Chapter 5 describes resource attributes and Appendix 6.4 summarizes the resources' lead times, in-service dates and locations.
1.a.4	Consistent assumptions and methods should be used for evaluation of all resources.	Appendix 6.1 documents general assumptions used in Avista's SENDOUT® modeling software. All portfolio resources both demand and supply side were evaluated within SENDOUT using the same sets of inputs.
1.a.5	The after-tax marginal weighted-average cost of capital (WACC) should be used to discount all future resource costs.	Avista applied its after-tax WACC of 4.18% to discount all future resource costs. (See general assumptions at Appendix 6.1)
1.b.1	Risk and uncertainty must be considered. Electric utilities only	Not Applicable
1.b.2	Risk and uncertainty must be considered. Natural gas utilities should consider demand (peak, swing and base-load), commodity supply and price, transportation availability and price, and costs to comply with any regulation of greenhouse gas (GHG) emissions.	After considering the influencers on demand, Avista focused on three scenarios (Table 1.1) for SENDOUT modeling purposes. Demand coefficients were developed for base, shoulder and winter demand (Appendix 2.3) while peak demand was contemplated through modeling a weather planning standard of the coldest day on record (see heating degree day data in Appendix 6.1). Avista evaluated several price forecasts (Figure 6.12) and selected high, medium and low price scenarios for modeling purposes (Figures 6.13 & 6.14).

Guideline Number	Description of Requirement	Fulfillment of Requirement
		Avista also ran Monte Carlo simulations using VectorGas™ for price and weather variables to analyze demand sensitivity and resulting resource timing and selection. Avista considered potential GHG emissions regulatory compliance costs in Chapter 7.
	Utilities should identify in their plans any additional sources of risk and uncertainty.	Avista evaluated additional risks and uncertainties, including the level of DSM achievable potential (Chapter 3). See Chapter 6 for a discussion of the other sources of risk and uncertainty considered but not necessarily modeled for scenario and stochastic risk analysis.
1c	The primary goal must be the selection of a portfolio of resources with the best combination of expected costs and associated risks and uncertainties for the utility and its customers.	Gas utilities are different from electric utilities in the number and combinations of resources available. Gas utilities do not have multiple portfolios of resources. Therefore, Avista considers a resource mix of all the supply side and demand side options as our alternative to portfolios. Avista inputs the supply side and demand side measures into SENDOUT® and allows the model to pick a suite of resources. Each scenario has a different resource mix based on the assumptions of the scenario. Avista evaluated cost/risk tradeoffs for each of the scenarios considered. For example, we considered large scale LNG but after considering the lead time, cost, and assessment of the risks we determined it was not a viable option at this time. See Chapter 6 for the company's risk analysis and determination of the preferred resource mix.
	The planning horizon for analyzing resource choices should be at least 20 years and account for end effects. Utilities should consider all costs with a reasonable likelihood of being included in rates over the long term, which extends beyond the planning horizon and the life of the resource.	Avista used a 20-year study period for portfolio modeling. Avista contemplated possible costs beyond the planning period that could affect rates including end effects such as infrastructure decommission costs and concluded there were no significant costs reasonably likely to impact rates under different resource selection scenarios.
	Utilities should use present value of revenue requirement (PVRR) as the key cost metric. The plan should include analysis of current and estimated future costs of all long-lived resources such as power plants, gas storage facilities and pipelines, as well as all short-lived resources such as gas supply and short-term power purchases.	Avista's SENDOUT modeling software utilizes a PVRR cost metric methodology applied to both long and short-lived resources.
	To address risk, the plan should include at a minimum: 1) Two measures of PVRR risk: one	Avista, through its VectorGas software, modeled 200 scenarios around varying gas price inputs via Monte Carlo iterations developing a distribution of Total 20

Guideline Number	Description of Requirement	Fulfillment of Requirement
	that measures the variability of costs and one that measures the severity of bad outcomes. 2) Discussion of the proposed use and impact on costs and risks of physical and financial hedging.	year cost estimates utilizing SENDOUT's PVRR methodology. Chapter 6 further describes this analysis while Figure 6.15 summarizes this analysis graphically. The variability of costs is plotted against the Expected Case while the scenarios beyond the 95th percentile capture the severity of bad outcomes. Chapter 5 discusses Avista's physical and financial hedging methodology.
	The utility should explain in its plan how its resource choices appropriately balance cost and risk.	Chapter 6 and Appendix 6.7 summarizes the results of Avista's cost/risk tradeoff analysis, and describes what criteria the company used to determine what resource combinations provide an appropriate balance between cost and risk.
1d	The plan must be consistent with the long-run public interest as expressed in Oregon and federal energy policies.	Avista considered current and expected state and federal energy policies in portfolio modeling. Chapter 6 describes the decision process used to derive portfolios, which includes consideration of state resource policy directions.
Guideline 2: Procedural Requirements		
2a	The public, including other utilities, should be allowed significant involvement in the preparation of the IRP. Involvement includes opportunities to contribute information and ideas, as well as to receive information. Parties must have an opportunity to make relevant inquiries of the utility formulating the plan.	Chapter 1 provides an overview of the public process and documents the details on public meetings held for the 2007 IRP.
2b	While confidential information must be protected, the utility should make public, in its plan, any non-confidential information that is relevant to its resource evaluation and action plan.	The entire IRP, as well as the Technical Advisory Committee process, includes all of the non-confidential information the company used for portfolio evaluation and selection. Avista also provided stakeholders with non-confidential information to support public meeting discussions via email. The draft plan was also made available on Avista's website for public viewing during this period.
2c	The utility must provide a draft IRP for public review and comment prior to filing a final plan with the Commission.	Avista distributed a draft IRP document for external review to TAC members on September 6, 2007 and requested comments by October 31, 2007. The draft plan was also made available on Avista's website for public viewing during this period.
Guideline 3: Plan Filing, Review and Updates		
3a	Utility must file an IRP within two years of its previous IRP acknowledgement order.	This Plan complies with this requirement as the 2006 Natural Gas IRP was acknowledged on 9/16/06.
3b	Utility must present the results of its filed plan to	Avista will adhere to this guideline.

Guideline Number	Description of Requirement	Fulfillment of Requirement
	the Commission at a public meeting prior to the deadline for written public comment.	
3c - g	These guides discuss Commission comments and acknowledgement and the IRP annual update.	Not applicable.
Guideline 4: Plan Components		
	At a minimum, the plan must include the following elements:	
4a	An explanation of how the utility met each of the substantive and procedural requirements.	The purpose of this table is to comply with this guideline by providing an overview of how Avista met each of the substantive and procedural requirements for a natural gas IRP.
4b	Analysis of high and low load growth scenarios in addition to stochastic load risk analysis with an explanation of major assumptions.	Avista developed low, medium and high demand growth forecasts for scenario analysis. Stochastic variability of demand was also captured in the risk analysis. Chapter 2 describes the demand forecast data and Chapter 6 provides the scenario and risk analysis results. Appendix 6.1 details major assumptions.
4c	For electric utilities only	Not Applicable
4d	A determination of the peaking, swing and base-load gas supply and associated transportation and storage expected for each year of the plan, given existing resources; and identification of gas supplies (peak, swing and base-load), transportation and storage needed to bridge the gap between expected loads and resources.	This plan complies with the requirement with resource summaries documented in Figure 1.3 (and duplicated in Figure 6.17) for the expected case. Appendix 6.5 summarizes the high and low demand scenarios. Additionally, figure 6.21 shows that the need for resources primarily occurs on and around the peak day. Appendix 6.6 summarizes the high and low case. Appendix 6.4 details all the supply side options considered and Appendix 6.9 and 6.10 provides details on the demand side options. Table 6.6 identifies the resources selected by the model for the expected case, and Appendix 6.7 details the resources for the high and low cases.
4e	Identification and estimated costs of all supply-side and demand-side resource options, taking into account anticipated advances in technology	Chapter 3 and Appendix 6.9 and 6.10 identify the demand-side resources and costs included in this IRP. Chapter 6 and Appendix 6.4 identify the supply-side resources and costs.
4f	Analysis of measures the utility intends to take to provide reliable service, including cost-risk tradeoffs.	Chapter 4 discusses the modeling tools, customer growth forecasting and cost-risk considerations used to maintain and plan a reliable gas delivery system. The Chapter also captures a summary of the reliability analysis process demonstrated at the second TAC meeting. Chapter 5 discusses the diversified infrastructure and multiple supply basin approach that acts to mitigate certain reliability risks.
4g	Identification of key assumptions about the future	Appendix 6.1 and Chapter 6 describe the key assumptions and alternative

Guideline Number	Description of Requirement	Fulfillment of Requirement
	(e.g. fuel prices and environmental compliance costs) and alternative scenarios considered.	scenarios used in this IRP.
4h	Construction of a representative set of resource portfolios to test various operating characteristics, resource types, fuels and sources, technologies, lead times, in-service dates, durations and general locations - system-wide or delivered to a specific portion of the system.	This Plan documents the development and results for resource options evaluated in this IRP (see also Appendix 6.4, 6.9, and 6.10). See also guideline **1c** for further discussion on resource mix alternatives to portfolios.
4i	Evaluation of the performance of the candidate portfolios over the range of identified risks and uncertainties.	We evaluated our candidate portfolio by performing stochastic analysis using VectorGas™ varying price under 200 different scenarios. Additionally, we test the portfolio of options with the use of SENDOUT® under deterministic scenarios where demand and price vary. For resources selected, we assess other risk factors such as varying lead times required and potential for cost overruns outside of the amounts included in the modeling assumptions.
4j	Results of testing and rank ordering of the portfolios by cost and risk metric, and interpretation of those results	Avista's four distinct geographic Oregon service territories limit many resource option synergies which inherently reduces available portfolio options. Feasibility uncertainty, lead time variability and uncertain cost escalation around certain resource options also reduce reasonably viable options. Chapter 6 describes resource options reviewed including discussion on uncertainties in lead times and costs as well as viability and resource availability (e.g. LNG). Appendix 6.4 summarizes the potential resource options identifying investment and variable costs, asset availability and lead time requirements while results of resources selected are identified in Table 6.6 as well as graphically presented in Figure 6.19 for the expect case and Appendix 6.5 for High and Low demand cases.
4k	Analysis of the uncertainties associated with each portfolio evaluated	See the responses to 1.b above.
4l	Selection of a portfolio that represents the best combination of cost and risk for the utility and its customers	Avista evaluated cost/risk tradeoffs for each of the risk analysis portfolios considered. Chapter 6 shows the company's portfolio risk analysis, as well as the process and determination of the preferred portfolio.
4m	Identification and explanation of any inconsistencies of the selected portfolio with any state and federal energy policies that may affect a utility's plan and any barriers to implementation	This IRP is presumed to have no inconsistencies.
4n	An action plan with resource activities the utility intends to undertake over the next two to four years to acquire the identified resources,	Chapter 8 presents the 2008-09 IRP Action Plan with focus on the following areas: • Modeling

Guideline Number	Description of Requirement	Fulfillment of Requirement
	regardless of whether the activity was acknowledged in a previous IRP, with the key attributes of each resource specified as in portfolio testing.	• Supply/capacity • Forecasting • Regulatory communication • DSM Goals
Guideline 5: Transmission		
5	Portfolio analysis should include costs to the utility for the fuel transportation and electric transmission required for each resource being considered. In addition, utilities should consider fuel transportation and electric transmission facilities as resource options, taking into account their value for making additional purchases and sales, accessing less costly resources in remote locations, acquiring alternative fuel supplies, and improving reliability.	Not applicable to Avista's gas utility operations.
Guideline 6: Conservation		
6a	Each utility should ensure that a conservation potential study is conducted periodically for its entire service territory.	In our 2006 IRP, Avista retained the services of RLW Analytics to provide data regarding cost, energy-efficiency and technical potential characteristics for DM measures. Using the information from the work of RLW Analytics as a starting point and incorporating any new information, Avista completes a comprehensive assessment of the potential for utility acquisition of energy-efficiency resources into the regularly-scheduled Integrated Resource Planning process.
6b	To the extent that a utility controls the level of funding for conservation programs in its service territory, the utility should include in its action plan all best cost/risk portfolio conservation resources for meeting projected resource needs, specifying annual savings targets.	In Avista's Action Plan in Chapter 8 we include our conservation programs annual savings targets and reference to Appendix 6.10 for the program's specific details. A discussion on the treatment of conservation programs is included in Chapter 3 while selection methodology is documented in Chapter 6.
6c	To the extent that an outside party administers conservation programs in a utility's service territory at a level of funding that is beyond the utility's control, the utility should: 1) determine the amount of conservation resources in the best cost/ risk portfolio without regard to any limits on funding of conservation programs; and 2) identify	Not applicable. See the response for 6.b above.

Guideline Number	Description of Requirement	Fulfillment of Requirement
	the preferred portfolio and action plan consistent with the outside party's projection of conservation acquisition.	
Guideline 7: Demand Response		
7	Plans should evaluate demand response resources, including voluntary rate programs, on par with other options for meeting energy, capacity, and transmission needs (for electric utilities) or gas supply and transportation needs (for natural gas utilities).	Avista has periodically evaluated conceptual approaches to meeting capacity constraints using demand-response and similar voluntary programs. In the past these have failed to be the most cost-effective response to the constraint. Avista is in the process of developing a separate natural gas distribution capacity value as part of the overall avoided cost structure in anticipation of improvements in technology that may allow for the cost-effective use of demand-response options. Avista is currently testing an electric demand-response technology that may be expanded to incorporate natural gas demand-response if suitable equipment can be acquired.
Guideline 8: Environmental Costs		
8	Utilities should include, in their base-case analyses, the regulatory compliance costs they expect for CO2, NOx, SO2, and Hg emissions. Utilities should analyze the range of potential CO2 regulatory costs in Order No. 93-695, from $0 - $40 (1990$). In addition, utilities should perform sensitivity analysis on a range of reasonably possible cost adders for NOx, SO2, and Hg, if applicable.	Avista's current direct gas distribution system infrastructure does not result in any CO2, NOx, SO2, or Hg emissions. Upstream gas system infrastructure (pipelines, storage facilities, and gathering systems) do produce CO2 emissions via compressors used to pressurize and move gas throughout the system. The Environmental Externalities discussion in Chapter 7 describes our process for addressing these costs.
Guideline 9: Direct Access Loads		
9	An electric utility's load-resource balance should exclude customer loads that are effectively committed to service by an alternative electricity supplier.	Not applicable to Avista's gas utility operations.
Guideline 10: Multi-state utilities		
10	Multi-state utilities should plan their generation and transmission systems, or gas supply and delivery, on an integrated-system basis that achieves a best cost/risk portfolio for all their retail customers.	The 2007 IRP conforms to the multi-state planning approach.

Guideline Number	Description of Requirement	Fulfillment of Requirement
Guideline 11: Reliability		
11	Electric utilities should analyze reliability within the risk modeling of the actual portfolios being considered. Loss of load probability, expected planning reserve margin, and expected and worst-case unserved energy should be determined by year for top-performing portfolios. Natural gas utilities should analyze, on an integrated basis, gas supply, transportation, and storage, along with demand-side resources, to reliably meet peak, swing, and base-load system requirements. Electric and natural gas utility plans should demonstrate that the utility's chosen portfolio achieves its stated reliability, cost and risk objectives.	Avista analyzes on an integrated basis gas supply, transportation, and storage, along with demand-side resources to reliably meet peak, swing, and base-load system requirements. As stated in Chapter 5, Avista's strategy is to reliably serve our customers on all days, including the peak day. To emphasize our commitment to reliability our assessment of resources favors firm (contractually dependable) resources. Acquisition costs of non-firm resources may be less costly. However, after consideration of risk, these assets do not meet our reliability requirements.
Guideline 12: Distributed Generation		
12	Electric utilities should evaluate distributed generation technologies on par with other supply-side resources and should consider, and quantify where possible, the additional benefits of distributed generation.	Not applicable to Avista's gas utility operations.
Guideline 13: Resource Acquisition		
13a	An electric utility should: identify its proposed acquisition strategy for each resource in its action plan; Assess the advantages and disadvantages of owning a resource instead of purchasing power from another party; identify any Benchmark Resources it plans to consider in competitive bidding.	Not applicable to Avista's gas utility operations.
13b	Natural gas utilities should either describe in the IRP their bidding practices for gas supply and transportation, or provide a description of those practices following IRP acknowledgment.	This information will be provided following IRP acknowledgment.

Avoided Cost Determination

Appendix 7.1

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

Expected Case

Figures Include Transportation and Storage, Excludes Environmental Externalities - 2007$/Dth

		Annual						Winter					
Year	Year of Forecast	Klamath Falls	La Grande	Medford	Roseburg	OR Total	WA/ID	Klamath Falls	La Grande	Medford	Roseburg	OR Total	WA/ID
2007/2008	1	$7.37	$7.31	$7.29	$7.31	$7.32	$7.29	$7.99	$7.94	$7.85	$7.94	$7.93	$7.86
2008/2009	2	$7.10	$6.94	$6.99	$6.94	$6.99	$6.94	$8.03	$7.72	$7.80	$7.72	$7.82	$7.81
2009'2010	3	$6.62	$6.48	$6.51	$6.48	$6.52	$6.47	$7.51	$7.25	$7.31	$7.25	$7.33	$7.29
2010/2011	4	$6.15	$6.05	$6.06	$6.05	$6.08	$6.12	$6.95	$6.75	$6.78	$6.75	$6.81	$6.75
2011/2012	5	$5.79	$5.50	$5.64	$5.50	$5.61	$5.80	$6.42	$5.78	$6.10	$5.78	$6.02	$6.34
2012/2013	6	$5.65	$5.15	$5.39	$5.15	$5.34	$5.51	$6.23	$5.26	$5.74	$5.26	$5.62	$6.13
2013/2014	7	$5.73	$5.30	$5.54	$5.30	$5.47	$5.65	$6.26	$5.36	$5.84	$5.36	$5.71	$6.16
2014/2015	8	$5.91	$5.45	$5.70	$5.45	$5.62	$5.78	$6.44	$5.55	$6.03	$5.55	$5.89	$6.34
2015/2016	9	$5.97	$5.55	$5.79	$5.55	$5.72	$5.93	$6.54	$5.69	$6.15	$5.69	$6.02	$6.47
2016/2017	10	$6.00	$5.62	$5.84	$5.62	$5.77	$5.86	$6.57	$5.81	$6.22	$5.81	$6.10	$6.50
2017/2018	11	$6.02	$5.64	$5.86	$5.64	$5.79	$5.86	$6.60	$5.83	$6.25	$5.83	$6.13	$6.53
2018/2019	12	$6.16	$5.80	$6.01	$5.80	$5.94	$6.05	$6.72	$6.00	$6.39	$6.00	$6.28	$6.63
2019/2020	13	$6.32	$5.96	$6.17	$5.96	$6.10	$6.20	$6.89	$6.18	$6.57	$6.18	$6.45	$6.80
2020/2021	14	$6.46	$6.15	$6.33	$6.15	$6.27	$6.32	$7.04	$6.46	$6.78	$6.46	$6.68	$6.95
2021/2022	15	$6.58	$6.27	$6.46	$6.48	$6.45	$6.47	$7.17	$6.60	$6.92	$7.10	$6.95	$7.09
2022/2023	16	$6.69	$6.40	$6.58	$6.61	$6.57	$6.57	$7.30	$6.75	$7.06	$7.26	$7.09	$7.19
2023/2024	17	$6.81	$6.54	$6.70	$6.95	$6.75	$6.69	$7.42	$6.92	$7.21	$7.92	$7.37	$7.31
2024/2025	18	$6.92	$6.67	$6.83	$7.09	$6.88	$6.81	$7.54	$7.09	$7.35	$8.10	$7.52	$7.44
2025/2026	19	$7.05	$6.85	$6.98	$7.26	$7.03	$6.93	$7.67	$7.35	$7.55	$8.36	$7.73	$7.57
2026/20027	20	$7.15	$6.98	$7.09	$7.60	$7.20	$7.04	$7.78	$7.52	$7.69	$9.02	$8.01	$7.69

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

Expected Case

Figures Include Transportation and Storage, Excludes Environmental Externalities - 2007$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	OR Total	WA/ID
2007	Nov	6.65	6.48	6.53	6.48	6.54	6.46
2007	Dec	7.48	8.01	7.43	8.01	7.73	7.66
2008	Jan	8.73	8.58	8.54	8.58	8.61	8.53
2008	Feb	8.70	8.42	8.48	8.42	8.50	8.42
2008	Mar	8.39	8.20	8.26	8.20	8.26	8.20
2008	Apr	6.75	6.66	6.71	6.66	6.70	6.71
2008	May	6.98	6.88	6.93	6.88	6.92	6.86
2008	Jun	6.61	6.53	6.57	6.53	6.56	6.68
2008	Jul	7.11	7.16	7.11	7.16	7.13	7.03
2008	Aug	7.12	7.03	7.07	7.03	7.06	7.06
2008	Sep	6.79	6.71	6.75	6.71	6.74	6.85
2008	Oct	7.12	7.02	7.07	7.02	7.06	7.06
	Avg.	**7.37**	**7.31**	**7.29**	**7.31**	**7.32**	**7.29**
2008	Nov	7.75	7.53	7.59	7.53	7.60	7.53
2008	Dec	8.23	7.53	7.79	7.53	7.77	8.04
2009	Jan	8.17	8.04	8.00	8.04	8.06	7.98
2009	Feb	8.15	7.85	7.91	7.85	7.94	7.85
2009	Mar	7.84	7.65	7.71	7.65	7.71	7.65
2009	Apr	6.20	6.12	6.16	6.12	6.15	5.44
2009	May	6.47	6.38	6.43	6.38	6.42	6.38
2009	Jun	6.17	6.10	6.14	6.10	6.13	6.24
2009	Jul	6.63	6.68	6.63	6.68	6.66	6.56
2009	Aug	6.64	6.57	6.60	6.57	6.60	6.59
2009	Sep	6.34	6.26	6.30	6.26	6.29	6.39
2009	Oct	6.65	6.57	6.61	6.57	6.60	6.60
	Avg.	**7.11**	**6.94**	**6.99**	**6.94**	**6.99**	**6.94**
2009	Nov	7.26	7.03	7.10	7.03	7.11	7.03
2009	Dec	7.70	7.24	7.39	7.24	7.39	7.52
2010	Jan	7.63	7.51	7.47	7.51	7.53	7.45
2010	Feb	7.62	7.33	7.39	7.33	7.42	7.32
2010	Mar	7.33	7.14	7.20	7.14	7.20	7.14
2010	Apr	5.78	5.70	5.74	5.70	5.73	5.12
2010	May	6.03	5.95	5.99	5.95	5.98	5.95
2010	Jun	5.77	5.70	5.73	5.70	5.72	5.82
2010	Jul	6.18	6.23	6.18	6.23	6.21	6.12
2010	Aug	6.01	5.94	5.97	5.94	5.97	6.02
2010	Sep	5.91	5.84	5.88	5.84	5.87	5.97
2010	Oct	6.21	6.13	6.17	6.13	6.16	6.16
	Avg.	**6.62**	**6.48**	**6.52**	**6.48**	**6.52**	**6.47**
2010	Nov	6.77	6.56	6.62	6.56	6.62	6.56
2010	Dec	7.18	6.98	7.00	6.98	7.03	7.03
2011	Jan	7.03	6.92	6.87	6.92	6.93	6.86
2011	Feb	7.02	6.74	6.80	6.74	6.82	6.74
2011	Mar	6.76	6.57	6.62	6.57	6.63	6.56
2011	Apr	5.33	5.26	5.29	5.26	5.28	5.35
2011	May	5.57	5.50	5.54	5.50	5.53	5.47
2011	Jun	5.60	5.53	5.56	5.53	5.56	5.55
2011	Jul	5.69	5.86	5.69	5.86	5.77	6.52
2011	Aug	5.73	5.66	5.69	5.66	5.68	5.69
2011	Sep	5.43	5.37	5.40	5.37	5.39	5.49
2011	Oct	5.72	5.64	5.68	5.64	5.67	5.67
	Avg.	**6.15**	**6.05**	**6.06**	**6.05**	**6.08**	**6.12**
2011	Nov	6.13	6.02	6.08	6.02	6.06	6.02
2011	Dec	6.45	3.70	5.09	3.70	4.74	6.46
2012	Jan	6.58	6.62	6.58	6.62	6.60	6.56
2012	Feb	6.56	6.32	6.44	6.32	6.41	6.36
2012	Mar	6.39	6.29	6.34	6.29	6.33	6.28
2012	Apr	5.09	5.02	5.06	5.02	5.05	4.93
2012	May	5.30	5.23	5.26	5.23	5.25	5.23
2012	Jun	5.35	5.29	5.32	5.29	5.31	5.31
2012	Jul	5.44	5.61	5.44	5.61	5.52	6.27
2012	Aug	5.48	5.41	5.44	5.41	5.44	5.44
2012	Sep	5.21	5.14	5.17	5.14	5.17	5.26
2012	Oct	5.46	5.39	5.43	5.39	5.42	5.41
	Avg.	**5.79**	**5.50**	**5.64**	**5.50**	**5.61**	**5.79**

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

Expected Case

Figures Include Transportation and Storage, Excludes Environmental Externalities - 2007$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	OR Total	WA/ID
2012	Nov	5.88	5.77	5.82	5.77	5.81	5.77
2012	Dec	6.18	1.85	4.02	1.85	3.47	6.14
2013	Jan	6.44	6.47	6.44	6.47	6.45	6.42
2013	Feb	6.42	6.16	6.29	6.16	6.25	6.20
2013	Mar	6.26	6.14	6.20	6.14	6.19	6.14
2013	Apr	5.26	4.42	4.84	4.42	4.73	3.51
2013	May	5.21	5.12	5.16	5.12	5.15	5.12
2013	Jun	4.98	4.90	4.94	4.90	4.93	5.01
2013	Jul	5.32	5.50	5.32	5.50	5.41	6.06
2013	Aug	5.37	5.30	5.33	5.30	5.32	5.33
2013	Sep	5.10	5.03	5.06	5.03	5.05	5.14
2013	Oct	5.41	5.25	5.33	5.25	5.31	5.28
	Avg.	**5.65**	**5.16**	**5.40**	**5.16**	**5.34**	**5.51**
2013	Nov	5.75	5.63	5.72	5.63	5.68	5.63
2013	Dec	6.05	2.11	4.11	2.11	3.60	6.02
2014	Jan	6.56	6.61	6.62	6.61	6.60	6.55
2014	Feb	6.55	6.29	6.46	6.29	6.40	6.34
2014	Mar	6.40	6.28	6.37	6.28	6.33	6.28
2014	Apr	5.37	5.02	5.22	5.02	5.16	4.44
2014	May	5.32	5.23	5.30	5.23	5.27	5.23
2014	Jun	5.10	5.00	5.07	5.00	5.04	5.12
2014	Jul	5.44	5.61	5.49	5.61	5.54	6.17
2014	Aug	5.48	5.41	5.47	5.41	5.44	5.44
2014	Sep	5.23	5.13	5.20	5.13	5.17	5.24
2014	Oct	5.53	5.37	5.48	5.37	5.44	5.40
	Avg.	**5.73**	**5.31**	**5.54**	**5.31**	**5.47**	**5.65**
2014	Nov	5.87	5.76	5.84	5.76	5.81	5.76
2014	Dec	6.18	2.29	4.27	2.29	3.76	6.15
2015	Jan	6.78	6.83	6.84	6.83	6.82	6.77
2015	Feb	6.77	6.51	6.67	6.51	6.62	6.55
2015	Mar	6.60	6.48	6.57	6.48	6.53	6.48
2015	Apr	5.55	4.77	5.19	4.77	5.07	4.01
2015	May	5.50	5.40	5.48	5.40	5.44	5.40
2015	Jun	5.28	5.17	5.25	5.17	5.21	5.29
2015	Jul	5.61	5.79	5.67	5.79	5.71	6.34
2015	Aug	5.65	5.59	5.65	5.59	5.62	5.61
2015	Sep	5.41	5.31	5.38	5.31	5.35	5.42
2015	Oct	5.71	5.54	5.65	5.54	5.61	5.57
	Avg.	**5.91**	**5.45**	**5.71**	**5.45**	**5.63**	**5.78**
2015	Nov	6.07	5.95	6.04	5.95	6.00	5.95
2015	Dec	6.37	2.50	4.47	2.50	3.96	6.38
2016	Jan	6.82	6.87	6.88	6.87	6.86	6.81
2016	Feb	6.81	6.69	6.78	6.69	6.74	6.68
2016	Mar	6.63	6.51	6.61	6.51	6.57	6.51
2016	Apr	5.58	5.20	5.42	5.20	5.35	5.01
2016	May	5.52	5.42	5.50	5.42	5.46	5.42
2016	Jun	5.32	5.20	5.28	5.20	5.25	5.31
2016	Jul	5.64	5.82	5.70	5.82	5.75	6.37
2016	Aug	5.69	5.62	5.68	5.62	5.65	5.64
2016	Sep	5.45	5.35	5.42	5.35	5.39	5.46
2016	Oct	5.74	5.57	5.69	5.57	5.64	5.60
	Avg.	**5.97**	**5.56**	**5.79**	**5.56**	**5.72**	**5.93**
2016	Nov	6.10	5.98	6.07	5.98	6.03	5.98
2016	Dec	6.42	2.98	4.72	2.98	4.27	6.42
2017	Jan	6.85	6.90	6.91	6.90	6.89	6.84
2017	Feb	6.84	6.73	6.82	6.73	6.78	6.72
2017	Mar	6.67	6.54	6.64	6.54	6.60	6.54
2017	Apr	5.62	5.23	5.46	5.23	5.39	4.44
2017	May	5.55	5.45	5.53	5.45	5.50	5.45
2017	Jun	5.33	5.25	5.32	5.25	5.29	5.41
2017	Jul	5.67	5.72	5.72	5.72	5.71	5.61
2017	Aug	5.71	5.66	5.70	5.66	5.68	5.70
2017	Sep	5.49	5.41	5.47	5.41	5.44	5.56
2017	Oct	5.78	5.66	5.75	5.66	5.71	5.67
	Avg.	**6.00**	**5.63**	**5.84**	**5.63**	**5.77**	**5.86**

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

Expected Case

Figures Include Transportation and Storage, Excludes Environmental Externalities - 2007$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	OR Total	WA/ID
2017	Nov	6.12	6.00	6.09	6.00	6.05	6.00
2017	Dec	6.45	3.01	4.76	3.01	4.30	6.45
2018	Jan	6.87	6.93	6.94	6.93	6.92	6.87
2018	Feb	6.86	6.75	6.84	6.75	6.80	6.74
2018	Mar	6.70	6.57	6.67	6.57	6.63	6.57
2018	Apr	5.64	5.26	5.48	5.26	5.41	4.14
2018	May	5.57	5.47	5.55	5.47	5.52	5.47
2018	Jun	5.36	5.27	5.34	5.27	5.31	5.43
2018	Jul	5.70	5.75	5.75	5.75	5.74	5.64
2018	Aug	5.74	5.69	5.73	5.69	5.71	5.73
2018	Sep	5.51	5.44	5.50	5.44	5.47	5.58
2018	Oct	5.80	5.68	5.77	5.68	5.73	5.69
	Avg.	**6.03**	**5.65**	**5.87**	**5.65**	**5.80**	**5.86**
2018	Nov	6.15	6.03	6.12	6.03	6.08	6.03
2018	Dec	6.47	3.30	4.92	3.30	4.50	6.42
2019	Jan	7.06	7.11	7.12	7.11	7.10	7.04
2019	Feb	7.05	6.92	7.02	6.92	6.98	6.92
2019	Mar	6.87	6.74	6.84	6.74	6.80	6.74
2019	Apr	5.78	5.39	5.61	5.39	5.54	5.08
2019	May	5.72	5.61	5.69	5.61	5.66	5.61
2019	Jun	5.51	5.43	5.49	5.43	5.47	5.58
2019	Jul	5.84	5.90	5.90	5.90	5.88	5.78
2019	Aug	5.88	5.83	5.88	5.83	5.85	5.87
2019	Sep	5.71	5.60	5.67	5.60	5.64	5.74
2019	Oct	5.96	5.83	5.92	5.83	5.89	5.84
	Avg.	**6.17**	**5.81**	**6.02**	**5.81**	**5.95**	**6.06**
2019	Nov	6.32	6.19	6.29	6.19	6.25	6.19
2019	Dec	6.64	3.47	5.09	3.47	4.67	6.60
2020	Jan	7.23	7.28	7.29	7.28	7.27	7.22
2020	Feb	7.21	7.08	7.18	7.08	7.14	7.08
2020	Mar	7.04	6.91	7.01	6.91	6.96	6.90
2020	Apr	5.93	5.52	5.75	5.52	5.68	5.09
2020	May	5.86	5.76	5.84	5.76	5.80	5.76
2020	Jun	5.65	5.56	5.63	5.56	5.60	5.72
2020	Jul	5.98	6.05	6.05	6.05	6.03	5.93
2020	Aug	6.03	5.97	6.02	5.97	6.00	6.02
2020	Sep	5.85	5.74	5.81	5.74	5.78	5.88
2020	Oct	6.12	5.99	6.09	5.99	6.05	6.00
	Avg.	**6.32**	**5.96**	**6.17**	**5.96**	**6.10**	**6.20**
2020	Nov	6.46	6.33	6.43	6.33	6.39	6.33
2020	Dec	6.79	4.26	5.56	4.26	5.22	6.76
2021	Jan	7.39	7.44	7.45	7.44	7.43	7.38
2021	Feb	7.38	7.25	7.35	7.25	7.31	7.25
2021	Mar	7.19	7.06	7.16	7.06	7.12	7.06
2021	Apr	6.06	5.64	5.88	5.64	5.81	5.08
2021	May	5.98	5.88	5.96	5.88	5.92	5.88
2021	Jun	5.78	5.69	5.75	5.69	5.73	5.85
2021	Jul	6.12	6.18	6.18	6.18	6.17	6.06
2021	Aug	6.16	6.11	6.16	6.11	6.13	6.15
2021	Sep	5.97	5.86	5.94	5.86	5.91	6.01
2021	Oct	6.26	6.12	6.22	6.12	6.18	6.13
	Avg.	**6.46**	**6.15**	**6.34**	**6.15**	**6.28**	**6.33**
2021	Nov	6.60	6.48	6.57	6.48	6.53	6.48
2021	Dec	6.95	4.45	5.73	6.90	6.01	6.95
2022	Jan	7.52	7.57	7.58	7.57	7.56	7.50
2022	Feb	7.50	7.38	7.47	7.38	7.43	7.37
2022	Mar	7.32	7.19	7.29	7.19	7.25	7.18
2022	Apr	6.16	5.74	5.98	5.74	5.91	5.51
2022	May	6.10	5.99	6.07	5.99	6.04	5.99
2022	Jun	5.89	5.80	5.87	5.80	5.84	5.95
2022	Jul	6.22	6.29	6.29	6.29	6.27	6.16
2022	Aug	6.27	6.22	6.27	6.22	6.25	6.26
2022	Sep	6.12	5.97	6.07	5.97	6.03	6.11
2022	Oct	6.37	6.23	6.33	6.23	6.29	6.24
	Avg.	**6.58**	**6.27**	**6.46**	**6.48**	**6.45**	**6.48**

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

Expected Case

Figures Include Transportation and Storage, Excludes Environmental Externalities - 2007$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	OR Total	WA/ID
2022	Nov	6.73	6.60	6.70	6.60	6.65	6.60
2022	Dec	7.07	4.73	5.94	7.19	6.23	6.99
2023	Jan	7.64	7.70	7.71	7.70	7.69	7.57
2023	Feb	7.63	7.50	7.60	7.50	7.55	7.49
2023	Mar	7.44	7.31	7.41	7.31	7.37	7.30
2023	Apr	6.27	5.84	6.08	5.84	6.00	5.58
2023	May	6.20	6.09	6.18	6.09	6.14	6.09
2023	Jun	5.98	5.89	5.96	5.89	5.93	6.05
2023	Jul	6.33	6.52	6.39	6.52	6.44	6.31
2023	Aug	6.38	6.32	6.37	6.32	6.35	6.37
2023	Sep	6.24	6.09	6.19	6.09	6.15	6.23
2023	Oct	6.47	6.34	6.44	6.34	6.40	6.34
	Avg.	**6.70**	**6.41**	**6.58**	**6.61**	**6.58**	**6.58**
2023	Nov	6.84	6.71	6.81	6.71	6.77	6.71
2023	Dec	7.18	5.06	6.16	9.97	7.09	7.11
2024	Jan	7.77	7.83	7.84	7.83	7.82	7.71
2024	Feb	7.75	7.62	7.72	7.62	7.68	7.62
2024	Mar	7.56	7.43	7.53	7.43	7.49	7.42
2024	Apr	6.38	5.94	6.19	5.94	6.11	5.72
2024	May	6.30	6.19	6.28	6.19	6.24	6.19
2024	Jun	6.09	6.00	6.07	6.00	6.04	6.15
2024	Jul	6.44	6.63	6.50	6.63	6.55	6.42
2024	Aug	6.48	6.42	6.48	6.42	6.45	6.47
2024	Sep	6.35	6.19	6.29	6.19	6.26	6.33
2024	Oct	6.59	6.45	6.55	6.45	6.51	6.45
	Avg.	**6.81**	**6.54**	**6.70**	**6.95**	**6.75**	**6.69**
2024	Nov	6.95	6.82	6.92	6.82	6.88	6.82
2024	Dec	7.31	5.40	6.39	10.30	7.35	7.23
2025	Jan	7.90	7.96	7.97	7.96	7.95	7.84
2025	Feb	7.88	7.75	7.85	7.75	7.81	7.75
2025	Mar	7.69	7.57	7.67	7.57	7.62	7.56
2025	Apr	6.51	6.06	6.32	6.06	6.24	5.84
2025	May	6.41	6.29	6.38	6.29	6.34	6.29
2025	Jun	6.20	6.10	6.17	6.10	6.14	6.26
2025	Jul	6.55	6.74	6.62	6.74	6.66	6.53
2025	Aug	6.59	6.54	6.59	6.54	6.56	6.58
2025	Sep	6.46	6.30	6.41	6.30	6.37	6.44
2025	Oct	6.70	6.56	6.66	6.56	6.62	6.57
	Avg.	**6.93**	**6.67**	**6.83**	**7.08**	**6.88**	**6.81**
2025	Nov	7.08	6.94	7.05	6.94	7.00	6.94
2025	Dec	7.43	6.17	6.84	11.06	7.87	7.36
2026	Jan	8.03	8.11	8.11	8.11	8.09	7.98
2026	Feb	8.02	7.89	8.00	7.89	7.95	7.89
2026	Mar	7.82	7.70	7.80	7.70	7.76	7.69
2026	Apr	6.62	6.17	6.43	6.17	6.35	5.95
2026	May	6.52	6.40	6.50	6.40	6.46	6.40
2026	Jun	6.30	6.21	6.28	6.21	6.25	6.37
2026	Jul	6.67	6.87	6.73	6.87	6.78	6.65
2026	Aug	6.71	6.65	6.70	6.65	6.68	6.69
2026	Sep	6.57	6.41	6.52	6.41	6.48	6.56
2026	Oct	6.82	6.70	6.79	6.70	6.75	6.70
	Avg.	**7.05**	**6.85**	**6.98**	**7.26**	**7.03**	**6.93**
2026	Nov	7.20	7.06	7.17	7.06	7.12	7.06
2026	Dec	7.56	6.56	7.08	13.87	8.77	7.52
2027	Jan	8.14	8.21	8.21	8.21	8.19	8.08
2027	Feb	8.12	8.01	8.10	8.01	8.06	8.00
2027	Mar	7.93	7.81	7.91	7.81	7.87	7.80
2027	Apr	6.71	6.25	6.51	6.25	6.43	6.03
2027	May	6.62	6.50	6.59	6.50	6.55	6.50
2027	Jun	6.39	6.30	6.37	6.30	6.34	6.46
2027	Jul	6.76	6.96	6.83	6.96	6.88	6.74
2027	Aug	6.80	6.74	6.80	6.74	6.77	6.78
2027	Sep	6.77	6.56	6.69	6.56	6.64	6.68
2027	Oct	6.91	6.79	6.89	6.79	6.85	6.79
	Avg.	**7.16**	**6.98**	**7.10**	**7.59**	**7.21**	**7.04**

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

Expected Case

Figures Include Transportation and Storage, Excludes Environmental Externalities - 2007$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	OR Total	WA/ID
2007	Nov	6.65	6.48	6.53	6.48	6.54	6.46
2007	Dec	7.48	8.01	7.43	8.01	7.73	7.66
2008	Jan	8.73	8.58	8.54	8.58	8.61	8.53
2008	Feb	8.70	8.42	8.48	8.42	8.50	8.42
2008	Mar	8.39	8.20	8.26	8.20	8.26	8.20
	Avg.	**7.99**	**7.94**	**7.85**	**7.94**	**7.93**	**7.85**
2008	Nov	7.75	7.53	7.59	7.53	7.60	7.53
2008	Dec	8.23	7.53	7.79	7.53	7.77	8.04
2009	Jan	8.17	8.04	8.00	8.04	8.06	7.98
2009	Feb	8.15	7.85	7.91	7.85	7.94	7.85
2009	Mar	7.84	7.65	7.71	7.65	7.71	7.65
	Avg.	**8.03**	**7.72**	**7.80**	**7.72**	**7.82**	**7.81**
2009	Nov	7.26	7.03	7.10	7.03	7.11	7.03
2009	Dec	7.70	7.24	7.39	7.24	7.39	7.52
2010	Jan	7.63	7.51	7.47	7.51	7.53	7.45
2010	Feb	7.62	7.33	7.39	7.33	7.42	7.32
2010	Mar	7.33	7.14	7.20	7.14	7.20	7.14
	Avg.	**7.51**	**7.25**	**7.31**	**7.25**	**7.33**	**7.29**
2010	Nov	6.77	6.56	6.62	6.56	6.62	6.56
2010	Dec	7.18	6.98	7.00	6.98	7.03	7.03
2011	Jan	7.03	6.92	6.87	6.92	6.93	6.86
2011	Feb	7.02	6.74	6.80	6.74	6.82	6.74
2011	Mar	6.76	6.57	6.62	6.57	6.63	6.56
	Avg.	**6.95**	**6.75**	**6.78**	**6.75**	**6.81**	**6.75**
2011	Nov	6.13	6.02	6.08	6.02	6.06	6.02
2011	Dec	6.45	3.70	5.09	3.70	4.74	6.46
2012	Jan	6.58	6.62	6.58	6.62	6.60	6.56
2012	Feb	6.56	6.32	6.44	6.32	6.41	6.36
2012	Mar	6.39	6.29	6.34	6.29	6.33	6.28
	Avg.	**6.42**	**5.79**	**6.11**	**5.79**	**6.03**	**6.34**
2012	Nov	5.88	5.77	5.82	5.77	5.81	5.77
2012	Dec	6.18	1.85	4.02	1.85	3.47	6.14
2013	Jan	6.44	6.47	6.44	6.47	6.45	6.42
2013	Feb	6.42	6.16	6.29	6.16	6.25	6.20
2013	Mar	6.26	6.14	6.20	6.14	6.19	6.14
	Avg.	**6.24**	**5.28**	**5.75**	**5.28**	**5.64**	**6.13**
2013	Nov	5.75	5.63	5.72	5.63	5.68	5.63
2013	Dec	6.05	2.11	4.11	2.11	3.60	6.02
2014	Jan	6.56	6.61	6.62	6.61	6.60	6.55
2014	Feb	6.55	6.29	6.46	6.29	6.40	6.34
2014	Mar	6.40	6.28	6.37	6.28	6.33	6.28
	Avg.	**6.26**	**5.38**	**5.86**	**5.38**	**5.72**	**6.16**
2014	Nov	5.87	5.76	5.84	5.76	5.81	5.76
2014	Dec	6.18	2.29	4.27	2.29	3.76	6.15
2015	Jan	6.78	6.83	6.84	6.83	6.82	6.77
2015	Feb	6.77	6.51	6.67	6.51	6.62	6.55
2015	Mar	6.60	6.48	6.57	6.48	6.53	6.48
	Avg.	**6.44**	**5.57**	**6.04**	**5.57**	**5.91**	**6.34**
2015	Nov	6.07	5.95	6.04	5.95	6.00	5.95
2015	Dec	6.37	2.50	4.47	2.50	3.96	6.38
2016	Jan	6.82	6.87	6.88	6.87	6.86	6.81
2016	Feb	6.81	6.69	6.78	6.69	6.74	6.68
2016	Mar	6.63	6.51	6.61	6.51	6.57	6.51
	Avg.	**6.54**	**5.70**	**6.15**	**5.70**	**6.03**	**6.47**

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

Expected Case

Figures Include Transportation and Storage, Excludes Environmental Externalities - 2007$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	OR Total	WA/ID
2016	Nov	6.10	5.98	6.07	5.98	6.03	5.98
2016	Dec	6.42	2.98	4.72	2.98	4.27	6.42
2017	Jan	6.85	6.90	6.91	6.90	6.89	6.84
2017	Feb	6.84	6.73	6.82	6.73	6.78	6.72
2017	Mar	6.67	6.54	6.64	6.54	6.60	6.54
	Avg.	**6.57**	**5.82**	**6.23**	**5.82**	**6.11**	**6.50**
2017	Nov	6.12	6.00	6.09	6.00	6.05	6.00
2017	Dec	6.45	3.01	4.76	3.01	4.30	6.45
2018	Jan	6.87	6.93	6.94	6.93	6.92	6.87
2018	Feb	6.86	6.75	6.84	6.75	6.80	6.74
2018	Mar	6.70	6.57	6.67	6.57	6.63	6.57
	Avg.	**6.60**	**5.85**	**6.26**	**5.85**	**6.14**	**6.53**
2018	Nov	6.15	6.03	6.12	6.03	6.08	6.03
2018	Dec	6.47	3.30	4.92	3.30	4.50	6.42
2019	Jan	7.06	7.11	7.12	7.11	7.10	7.04
2019	Feb	7.05	6.92	7.02	6.92	6.98	6.92
2019	Mar	6.87	6.74	6.84	6.74	6.80	6.74
	Avg.	**6.72**	**6.02**	**6.40**	**6.02**	**6.29**	**6.63**
2019	Nov	6.32	6.19	6.29	6.19	6.25	6.19
2019	Dec	6.64	3.47	5.09	3.47	4.67	6.60
2020	Jan	7.23	7.28	7.29	7.28	7.27	7.22
2020	Feb	7.21	7.08	7.18	7.08	7.14	7.08
2020	Mar	7.04	6.91	7.01	6.91	6.96	6.90
	Avg.	**6.89**	**6.19**	**6.57**	**6.19**	**6.46**	**6.80**
2020	Nov	6.46	6.33	6.43	6.33	6.39	6.33
2020	Dec	6.79	4.26	5.56	4.26	5.22	6.76
2021	Jan	7.39	7.44	7.45	7.44	7.43	7.38
2021	Feb	7.38	7.25	7.35	7.25	7.31	7.25
2021	Mar	7.19	7.06	7.16	7.06	7.12	7.06
	Avg.	**7.04**	**6.47**	**6.79**	**6.47**	**6.69**	**6.95**
2021	Nov	6.60	6.48	6.57	6.48	6.53	6.48
2021	Dec	6.95	4.45	5.73	6.90	6.01	6.95
2022	Jan	7.52	7.57	7.58	7.57	7.56	7.50
2022	Feb	7.50	7.38	7.47	7.38	7.43	7.37
2022	Mar	7.32	7.19	7.29	7.19	7.25	7.18
	Avg.	**7.18**	**6.61**	**6.93**	**7.10**	**6.96**	**7.10**
2022	Nov	6.73	6.60	6.70	6.60	6.65	6.60
2022	Dec	7.07	4.73	5.94	7.19	6.23	6.99
2023	Jan	7.64	7.70	7.71	7.70	7.69	7.57
2023	Feb	7.63	7.50	7.60	7.50	7.55	7.49
2023	Mar	7.44	7.31	7.41	7.31	7.37	7.30
	Avg.	**7.30**	**6.77**	**7.07**	**7.26**	**7.10**	**7.19**
2023	Nov	6.84	6.71	6.81	6.71	6.77	6.71
2023	Dec	7.18	5.06	6.16	9.97	7.09	7.11
2024	Jan	7.77	7.83	7.84	7.83	7.82	7.71
2024	Feb	7.75	7.62	7.72	7.62	7.68	7.62
2024	Mar	7.56	7.43	7.53	7.43	7.49	7.42
	Avg.	**7.42**	**6.93**	**7.21**	**7.91**	**7.37**	**7.31**
2024	Nov	6.95	6.82	6.92	6.82	6.88	6.82
2024	Dec	7.31	5.40	6.39	10.30	7.35	7.23
2025	Jan	7.90	7.96	7.97	7.96	7.95	7.84
2025	Feb	7.88	7.75	7.85	7.75	7.81	7.75
2025	Mar	7.69	7.57	7.67	7.57	7.62	7.56
	Avg.	**7.54**	**7.10**	**7.36**	**8.08**	**7.52**	**7.44**
2025	Nov	7.08	6.94	7.05	6.94	7.00	6.94
2025	Dec	7.43	6.17	6.84	11.06	7.87	7.36
2026	Jan	8.03	8.11	8.11	8.11	8.09	7.98
2026	Feb	8.02	7.89	8.00	7.89	7.95	7.89
2026	Mar	7.82	7.70	7.80	7.70	7.76	7.69
	Avg.	**7.67**	**7.36**	**7.56**	**8.34**	**7.73**	**7.57**

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

Expected Case

Figures Include Transportation and Storage, Excludes Environmental Externalities - 2007$/Dth

Year	Month	Klam Falls	La Grande	Medford	Roseburg	OR Total	WA/ID
2026	Nov	7.20	7.06	7.17	7.06	7.12	7.06
2026	Dec	7.56	6.56	7.08	13.87	8.77	7.52
2027	Jan	8.14	8.21	8.21	8.21	8.19	8.08
2027	Feb	8.12	8.01	8.10	8.01	8.06	8.00
2027	Mar	7.93	7.81	7.91	7.81	7.87	7.80
	Avg.	**7.79**	**7.53**	**7.70**	**8.99**	**8.00**	**7.69**