

DECEMBER 2003

2003 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY

Technical Appendix Volume 1 Energy Analysis



2003 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY

THE WHITE BOOK

TECHNICAL APPENDIX

VOLUME 1

ENERGY ANALYSIS

BONNEVILLE POWER ADMINISTRATION
December 2003

Cover Photo Montage:

(Top left clockwise)

Photographs provided by John Hyde P.E. Hydraulic Engineer, BPA,
Regional Coordination & Operations Planning Group

Lower Granite Dam is located at the head of Lake Bryan in southeastern Washington. Lower Granite dam is owned and operated by the U.S. Corps of Engineers. Construction for this project began in July 1964, and was completed in 1984. The installed capacity of Lower Granite dam is 810 MW.

Grand Coulee Dam spans the Columbia River and is 90 miles west of Spokane, Washington. The U.S. Bureau of Reclamation began operating this storage project in 1933. Grand Coulee dam has an installed capacity of 6,465 MW.

Bonneville Second Power House is part of Bonneville Dam and is located on the Washington side of the Columbia River. The U.S. Army Corps of Engineers began operating this unit in 1982. The installed capacity of the Second Power House is 532 MW. Total capacity of Bonneville Dam is 1,093 MW.

Libby Dam is located on the Kootenai River in northwestern Montana. Its reservoir, Koocanusa, extends 42 miles into British Columbia, Canada. The Columbia River Treaty allowed the construction of Libby dam, which was completion in 1972. The installed capacity is 525 MW.

ACKNOWLEDGMENTS

Preparation of the annual Pacific Northwest loads and resources study is a complex, multidisciplinary effort. BPA wishes to acknowledge the team—BPA staff and others—whose diligence and dedication result in a reliable, high quality document.

Bonneville Power Administration
Generation Supply: Regional Coordination Group
Office of General Counsel

Pacific Northwest Utilities Conference Committee
Northwest Power & Conservation Council

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Loads and Resources Information System

**2003 Pacific Northwest Loads and Resources Study
Technical Appendix Volume 1**

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Section 1
Annual Federal Table
Loads & Resources
Average Energy in Megawatts

Loads and Resources - Federal System
PNW Loads and Resources Study
2005 - 2014 Operating Years
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
Non-Utility Obligations										
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	119	119	120	120	121	121	122	119	118	118
USBR 2002 PSC Sale	149	149	149	149	149	149	149	149	149	149
DSI 2002 PSC Sale	267	271	45	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	535	539	314	270	270	271	271	268	268	268
Transfers Out										
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2716	2755	2917	2974	3009	3044	3078	3103	3137	3169
GPU 2002 PSC Sale	2142	2126	2367	2431	2443	2454	2463	2494	2511	2518
NGP Slice Sale	607	621	614	627	618	630	621	632	623	634
GPU Slice Sale	1011	1034	1022	1044	1030	1049	1034	1053	1038	1056
IOU 2002 PSC Sale	382	382	64	0	0	0	0	0	0	0
Exports	1007	968	783	697	633	705	694	686	679	672
Intra-Regional Transfers (Out)	512	413	380	370	370	370	370	199	184	178
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8376	8300	8146	8143	8103	8252	8261	8168	8172	8227
Total Firm Obligations	8911	8839	8460	8413	8373	8523	8532	8437	8439	8494
Hydro Resources										
Regulated Hydro	6446	6464	6492	6527	6545	6562	6577	6589	6603	6614
Independent Hydro	397	397	398	398	398	398	398	398	398	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	142	139	134	131	130	133	139	137	135	133
Restoration	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	6985	7000	7024	7056	7072	7092	7114	7123	7136	7145
Other Resources										
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0
Renewables	29	29	29	29	29	29	29	29	29	29
Cogeneration	0	0	0	0	0	0	0	0	0	0
Imports	256	246	226	199	184	183	175	175	175	175
Intra-Regional Transfers (In)	1367	1210	510	276	276	276	276	105	90	90
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0
Large Thermal	861	1000	877	1000	877	1000	877	1000	877	1000
Non-Utility Generation	92	92	110	119	119	119	119	119	119	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0
Total Other Resources	2605	2577	1751	1622	1485	1607	1476	1428	1289	1413
Total Resources	9590	9578	8775	8678	8557	8699	8589	8551	8425	8558
Reserves & Maintenance										
Hydro Reserves	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-270	-270	-247	-245	-241	-245	-242	-241	-238	-241
Total Reserves, Maintenance & Losses	-270	-270	-247	-245	-241	-245	-242	-241	-238	-241
Total Net Resources	9320	9307	8527	8433	8315	8454	8347	8310	8187	8317
Total Firm Surplus/Deficit	409	468	67	20	-58	-69	-185	-127	-252	-178

Section 2
Annual Regional Table
Loads & Resources
Average Energy in Megawatts

Loads and Resources - Pacific Northwest Region
PNW Loads and Resources Study
2005 - 2014 Operating Years
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>2005 Avg.</i>	<i>2006 Avg.</i>	<i>2007 Avg.</i>	<i>2008 Avg.</i>	<i>2009 Avg.</i>	<i>2010 Avg.</i>	<i>2011 Avg.</i>	<i>2012 Avg.</i>	<i>2013 Avg.</i>	<i>2014 Avg.</i>
<u>Firm Regional Loads</u>										
Regional Firm Loads	19666	19957	20575	20914	21246	21556	21864	22160	22537	22849
Exports	1468	1307	1077	945	840	909	898	890	864	848
Federal Diversity	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	21135	21264	21652	21859	22086	22465	22762	23049	23400	23698
<u>Non-Firm Regional Loads</u>										
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0
Total Loads	21135	21264	21652	21859	22086	22465	22762	23049	23400	23698
<u>Hydro Resources</u>										
Regulated Hydro	10605	10622	10650	10686	10703	10721	10736	10748	10762	10773
Independent Hydro	1084	1084	1085	1085	1085	1085	1085	1085	1085	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	11688	11706	11735	11770	11788	11805	11821	11832	11846	11858
<u>Other Resources</u>										
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	1946	1976	1967	1937	1941	1921	1914	1923	1918	1922
Renewables	80	80	80	80	80	80	80	80	80	80
Cogeneration	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999
Imports	603	597	514	484	288	280	226	226	223	223
Large Thermal	5930	6034	5766	6026	5873	5973	5878	6009	5910	6047
Non-Utility Generation	1296	1292	1329	1337	1337	1338	1340	1340	1341	1341
Resource Acquisition	0	0	0	0	0	0	0	0	0	0
Total Other Resources	11870	11996	11672	11880	11535	11607	11454	11596	11488	11629
Total Resources	23559	23702	23407	23650	23323	23412	23275	23428	23335	23487
<u>Reserves & Maintenance</u>										
Hydro Reserves	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-664	-668	-660	-667	-657	-660	-656	-660	-658	-662
Total Reserves, Maintenance & Losses	-676	-680	-672	-679	-669	-672	-668	-672	-670	-674
Total Net Resources	22883	23022	22735	22972	22654	22740	22607	22755	22665	22813
<u>Surplus/Deficits</u>										
Firm Surplus/Deficit	1748	1758	1083	1112	567	275	-155	-294	-735	-885
Total Surplus/Deficit	1748	1758	1083	1112	567	275	-155	-294	-735	-885

Section 3
Annual OY 2005 – 2014
Average Energy in Megawatts

	<u>Table Number</u>
Total Retail Loads	A-1
Exports	A-2
Regulated Hydro Projects	A-3
Independent Hydro Projects	A-4
Imports	A-5
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<div> <div>Table A-1: Pacific Northwest Total Retail Loads</div> <div>PNW Loads and Resources Study</div> <div>2005 - 2014 Operating Years</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>										
Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
Firm Loads										
-Federal Entities-										
1 Federal Entities	128	129	129	130	130	131	131	132	133	133
2 Total Federal Entities	128	129	129	130	130	131	131	132	133	133
-U.S. Bureau of Reclamation-										
3 U.S. Bureau of Reclamation	149	149	149	149	149	149	149	149	149	149
4 Total U.S. Bureau of Reclamation	149	149	149	149	149	149	149	149	149	149
-Direct Service Industry-										
5 Direct Service Industry	292	296	611	674	674	674	674	674	674	674
6 Total Direct Service Industry	292	296	611	674	674	674	674	674	674	674
-Generating Public Entities-										
7 Generating Public Entities	4866	4936	5029	5104	5195	5268	5336	5431	5525	5592
8 Total Generating Public Entities	4866	4936	5029	5104	5195	5268	5336	5431	5525	5592
-Non-Generating Public Entities-										
9 Non-Generating Public Entities	3414	3462	3506	3541	3596	3646	3693	3721	3773	3819
10 Total Non-Generating Public Entities	3414	3462	3506	3541	3596	3646	3693	3721	3773	3819
-Investor-Owned Entities-										
11 Investor-Owned Entities	10636	10805	10970	11136	11322	11508	11700	11872	12103	12318
12 Total Investor-Owned Entities	10636	10805	10970	11136	11322	11508	11700	11872	12103	12318
-Other Firm Loads-										
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	165
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	165
- Total Regional Firm Loads-										
15 Federal Entities	278	278	279	279	280	280	281	281	282	283
16 Direct Service Industry	292	296	611	674	674	674	674	674	674	674
17 Public Entities	8281	8397	8535	8645	8791	8914	9028	9152	9298	9410
18 Investor-Owned Entities	10636	10805	10970	11136	11322	11508	11700	11872	12103	12318
19 Other Entities	180	180	180	180	180	180	180	180	180	165
20 Total Regional Firm Loads	19666	19957	20575	20914	21246	21556	21864	22160	22537	22849
Non-Firm Loads										
-Investor-Owned Entities-										
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-										
23 Federal Entities	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0
27 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-										
28 Federal Entities	278	278	279	279	280	280	281	281	282	283
29 Direct Service Industry	292	296	611	674	674	674	674	674	674	674
30 Public Entities	8281	8397	8535	8645	8791	8914	9028	9152	9298	9410
31 Investor-Owned Entities	10636	10805	10970	11136	11322	11508	11700	11872	12103	12318
32 Other Entities	180	180	180	180	180	180	180	180	180	165
33 Total Regional Medium Loads	19666	19957	20575	20914	21246	21556	21864	22160	22537	22849

**Table A-2: Regional Exports
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>2005 Avg.</i>	<i>2006 Avg.</i>	<i>2007 Avg.</i>	<i>2008 Avg.</i>	<i>2009 Avg.</i>	<i>2010 Avg.</i>	<i>2011 Avg.</i>	<i>2012 Avg.</i>	<i>2013 Avg.</i>	<i>2014 Avg.</i>
-Exports East of Continental Divide-										
1 AVWP To PPLM PwrS	9	9	9	9	2.3	0	0	0	0	0
2 BPA To Other Entities	78	81	84	88	91	95	99	102	107	111
3 Total Exports To ECD	87	90	93	97	93	95	99	102	107	111
-Exports to Pacific Southwest-										
4 BPA To ANHM PwrX	3.3	0	0	0	0	0	0	0	0	0
5 BPA To BART PwrS	40	37	0	0	0	0	0	0	0	0
6 BPA To BURB C/N/X	3.8	3.8	3.8	2.5	0	0	0	0	0	0
7 BPA To GLEN C/N/X	4.2	4.2	4.2	2.7	0	0	0	0	0	0
8 BPA To MSR PwrS	75	15	0	0	0	0	0	0	0	0
9 BPA To Other Entities	177	204	118	42	0	0	0	0	0	0
10 BPA To PASA C/N/X	2.5	2.5	2.5	1.6	0	0	0	0	0	0
11 BPA To PASA C/N/X	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
12 BPA To PASA S/N/X	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
13 BPA To RVSD CapS	3.0	3.0	3.0	3.0	3.0	3.0	0	0	0	0
14 BPA To RVSD C/N/X	2.8	2.8	2.8	2.8	2.8	1.7	0	0	0	0
15 BPA To RVSD C/N/X	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
16 BPA To RVSD S/Pwr/X	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
17 IPC To CLTN PwrS	2.6	0	0	0	0	0	0	0	0	0
18 PGE To GLEN PwrS	20	20	20	20	20	20	20	20	3.3	0
19 PGE To GLEN S/Pwr/X	3.0	3.0	3.0	3.0	3.0	3.0	3.0	1.5	0	0
20 PPL To CDWR PwrS	30	0	0	0	0	0	0	0	0	0
21 PPL To SCE PwrS	54	54	9	0	0	0	0	0	0	0
22 PPL To SMUD PwrS	40	40	40	40	40	40	40	40	40	40
23 PSE To PGS S/Pwr/X	43	43	43	28	0	0	0	0	0	0
24 SCL To NCPA S/Pwr/X	10	10	10	10	10	10	10	10	10	5.3
25 SDGE To SDGE PwrS	57	57	57	57	57	57	57	57	57	57
26 SHPD To SMUD PwrS	29	29	29	6	0	0	0	0	0	0
27 TID To TID PwrS	39	39	39	39	39	39	39	39	39	39
28 BPA NW-SW Intertie Losses	9.7	8.5	4.4	1.9	0.5	0.5	0.3	0.3	0.3	0.3
29 Total Exports To PSW	660	586	399	270	186	185	180	178	160	152
-Exports to Inland Southwest-										
30 BPA To SPP PwrS	60	60	60	60	60	60	60	60	60	60
31 LVFBR To WAPA PwrS	36	36	36	36	36	36	36	36	36	36
32 PPL To WAPA PwrS	89	0	0	0	0	0	0	0	0	0
33 Total Exports To ISW	185	96	96	96	96	96	96	96	96	96
-Exports to Canada-										
34 BPA To BCHP CanEnt	537	535	488	483	465	534	524	513	501	490
35 Total Exports To Canada	537	535	488	483	465	534	524	513	501	490
-Exports to Other Entities-										
36 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0
-Total Exports-										
37 Federal Entities	1007	968	783	697	633	705	694	686	679	672
38 Public Entities	78	78	78	55	49	49	49	49	49	44
39 Investor-Owned Entities	347	226	181	157	122	120	120	118	100	97
40 Other Entities	36	36	36	36	36	36	36	36	36	36
41 Total Exports.	1468	1307	1077	945	840	909	898	890	864	848

<div> <div>Table A-3: Regional Regulated Hydro Projects</div> <div>PNW Loads and Resources Study</div> <div>2005 - 2014 Operating Years</div> <div>1937 Water Year</div> <div>2003 White Book</div> </div>										
Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
-Regulated Hydro Projects-										
1 Albeni Falls	25	25	25	25	25	25	25	25	25	25
2 Alder	21	21	21	21	21	21	21	21	21	21
3 Bonneville	341	343	343	345	345	345	345	345	345	345
4 Boundary	332	332	332	332	332	332	332	332	332	332
5 Box Canyon	48	48	48	48	48	48	48	48	48	48
6 Brownlee	235	235	235	235	235	235	235	235	235	235
7 Cabinet Gorge	85	85	85	85	85	85	85	85	85	85
8 Chelan	44	44	44	44	44	44	44	44	44	44
9 Chief Joseph	1062	1066	1073	1089	1095	1101	1105	1105	1105	1105
10 Cushman 1	14	14	14	14	14	14	14	14	14	14
11 Cushman 2	29	29	29	29	29	29	29	29	29	29
12 Diablo	79	79	79	79	79	79	79	79	79	79
13 Dworshak	126	126	126	127	127	127	127	127	127	127
14 Faraday	20	20	20	20	20	20	20	20	20	20
15 Gorge	91	91	91	91	91	91	91	91	91	91
16 Grand Coulee	1938	1952	1961	1975	1975	1975	1975	1975	1976	1976
17 Hells Canyon	189	189	189	189	189	189	189	189	189	189
18 Hungry Horse	77	77	77	78	78	78	78	78	78	78
19 Ice Harbor	138	137	137	136	136	136	136	136	136	136
20 John Day	797	800	801	805	805	805	805	805	805	805
21 La Grande	34	34	34	34	34	34	34	34	34	34
22 Libby	168	168	169	169	169	169	169	169	169	169
23 Little Falls	19	19	19	19	19	19	19	19	19	19
24 Little Goose	218	215	215	213	213	213	213	213	213	213
25 Long Lake	42	42	42	42	42	42	42	42	42	42
26 Lower Baker	35	35	35	35	35	35	35	35	35	35
27 Lower Granite	221	218	218	216	216	216	216	216	216	216
28 Lower Monumental	224	220	221	219	219	219	219	219	219	219
29 Mayfield	68	68	68	68	68	68	68	68	68	68
30 McNary	518	521	527	530	541	553	564	576	587	599
31 Merwin	52	52	52	52	52	52	52	52	52	52
32 Monroe Street	11	11	11	11	11	11	11	11	11	11
33 Mossyrock	95	95	95	95	95	95	95	95	95	95
34 Nine Mile	13	13	13	13	13	13	13	13	13	13
35 North Fork	23	23	23	23	23	23	23	23	23	23
36 Noxon	131	131	131	131	131	131	131	131	131	131
37 Oak Grove	25	25	25	25	25	25	25	25	25	25
38 Oxbow	97	97	97	97	97	97	97	97	97	97
39 Pelton	36	36	36	36	36	36	36	36	36	36
40 Post Falls	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
41 Priest Rapids	337	337	337	337	337	337	337	337	337	337
42 River Mill	11	11	11	11	11	11	11	11	11	11
43 Rock Island PH#1	172	172	172	172	172	172	172	172	172	172
44 Rock Island PH#2	116	116	116	116	116	116	116	116	116	116
45 Rocky Reach	548	548	548	548	548	548	548	548	548	548
46 Ross	83	83	83	83	83	83	83	83	83	83
47 Round Butte	89	89	89	89	89	89	89	89	89	89
48 Swift 1	61	61	61	61	61	61	61	61	61	61
49 Swift 2	22	22	22	22	22	22	22	22	22	22
50 The Dalles	595	597	598	601	601	601	601	601	601	601
51 Upper Baker	34	34	34	34	34	34	34	34	34	34
52 Upper Falls	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
53 Wanapum	362	362	362	362	362	362	362	362	362	362
54 Wells	350	350	350	350	350	350	350	350	350	350
55 White	32	32	32	32	32	32	32	32	32	32
56 Yale	57	57	57	57	57	57	57	57	57	57
Total Regulated Hydro w/Enc.	10605	10622	10650	10686	10703	10721	10736	10748	10762	10773
-Total Regulated Hydro W/Enc.-										
57 Federal System	6446	6464	6492	6527	6545	6562	6577	6589	6603	6614
58 Public Entities	1681	1734	1755	1755	1755	1799	1815	1818	1821	1825
59 Investor-Owned Entities	2311	2257	2236	2236	2236	2192	2176	2174	2170	2167
60 Other Entities	167	167	167	167	167	167	167	167	167	167
61 Total Regulated Hydro w/Enc.	10605	10622	10650	10686	10703	10721	10736	10748	10762	10773

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2005 - 2014 Operating Years
1937 Water Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
-Independent Hydro Projects-										
1 American Falls	28	28	28	28	28	28	28	28	28	28
2 Anderson Ranch	16	16	16	16	16	16	16	16	16	16
3 Big Cliff	11	11	11	11	11	11	11	11	11	11
4 Big Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
5 Black Canyon	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
6 Bliss	42	42	42	42	42	42	42	42	42	42
7 Blue River	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
8 Bonneville Fishway	21	21	21	21	21	21	21	21	21	21
9 Bull Run	10	10	10	10	10	10	10	10	10	10
10 Calispel Creek	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
11 Carmen-Smith	16	16	16	16	16	16	16	16	16	16
12 Cascade	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
13 Cedar Falls & Newhalem	12	12	12	12	12	12	12	12	12	12
14 Chandler	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
15 CJ Strike	50	50	50	50	50	50	50	50	50	50
16 Condit Sm Plts	26	26	26	26	26	26	26	26	26	26
17 Cougar	16	16	16	16	16	16	16	16	16	16
18 Cowlitz Falls	26	26	26	26	26	26	26	26	26	26
19 Detroit	41	41	41	41	41	41	41	41	41	41
20 Dexter	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
21 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 Foster	12	12	12	12	12	12	12	12	12	12
23 Gem State Hydro	14	14	14	14	14	14	14	14	14	14
24 Green Peter	28	28	28	28	28	28	28	28	28	28
25 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
26 Hills Creek	18	18	18	18	18	18	18	18	18	18
27 Hood Street	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
28 Idaho Falls - City Plant	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
29 Idaho Falls - Lower Plant	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
30 Idaho Falls - Upper Plant	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
31 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
32 Jackson	43	43	43	43	43	43	43	43	43	43
33 Klamath	35	35	35	35	35	35	35	35	35	35
34 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
35 Leaburg	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
36 Lookout Point	35	35	35	35	35	35	35	35	35	35
37 Lost Creek	30	30	30	30	30	30	30	30	30	30
38 Lower Salmon	26	26	26	26	26	26	26	26	26	26
39 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
40 Mill Creek (WA)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
41 Miltown/Flint Creek	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3
42 Milner	2	2	2	2	2	2	2	2	2	2
43 Minidoka	16	16	16	16	16	16	16	16	16	16
44 Morse Creek	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
45 Moyie Springs	2	2	2	2	2	2	2	2	2	2
46 North Umpqua	107	107	107	107	107	107	107	107	107	107
47 Packwood	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
48 Palisades	66	66	66	66	66	66	66	66	66	66
49 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
50 Rogue	36	36	36	36	36	36	36	36	36	36
51 Roza	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
52 Shoshone Falls	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
53 Snoq Elect & Nooksack	46	46	46	46	46	46	46	46	46	46
54 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
55 South Fork Tolt	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
56 Spring Plants	28	28	28	28	28	28	28	28	28	28
57 Stone Creek	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
58 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59 Swan Falls	16	16	16	16	16	16	16	16	16	16
60 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
61 Trail Bridge	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62 TW Sullivan	14	14	14	14	14	14	14	14	14	14
63 Twin Falls	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
64 Upper Salmon 1 & 2	18	18	18	18	18	18	18	18	18	18
65 Upper Salmon 3 & 4	15	15	15	15	15	15	15	15	15	15
66 Walterville	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
67 Wynochee	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
68 Yelm	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Total Independent Hydro w/Enc.	1084	1084	1085	1085	1085	1085	1085	1085	1085	1085
-Total Independent Hydro W/Enc.-										
69 Federal System	397	397	398	398	398	398	398	398	398	398
70 Public Entities	166	166	166	166	166	166	166	166	166	166

**Table A-5: Regional Imports
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>2005 Avg.</i>	<i>2006 Avg.</i>	<i>2007 Avg.</i>	<i>2008 Avg.</i>	<i>2009 Avg.</i>	<i>2010 Avg.</i>	<i>2011 Avg.</i>	<i>2012 Avg.</i>	<i>2013 Avg.</i>	<i>2014 Avg.</i>
-Imports From East of Continental Divide-										
1 BEPC To NWE PwrS	42	42	42	42	42	42	0	0	0	0
2 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0
3 PPL To BPA PwrS	94	94	94	94	94	94	94	94	94	94
4 PPL To PPL PwrS	196	197	138	153	0	0	0	0	0	0
5 PPLM To IPC PwrS	8.6	11	11	11	11	3.7	0	0	0	0
6 Total Imports From ECD	341	345	286	301	148	140	94	94	94	94
-Imports From Pacific Southwest-										
7 ANHM To BPA PwrX	10	0	0	0	0	0	0	0	0	0
8 BURB To BPA XchgNrg	3.6	3.6	3.6	2.9	0	0	0	0	0	0
9 BURB To BPA PkRepl	3.8	3.8	3.8	2.5	0	0	0	0	0	0
10 GLEN To BPA XchgNrg	4	4	4	3.2	0	0	0	0	0	0
11 GLEN To BPA PkRepl	4.2	4.2	4.2	2.7	0	0	0	0	0	0
12 GLEN To PGE S/Pwr/X	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0	0
13 NCPA To SCL S/Pwr/X	12	12	12	12	12	12	12	12	12	12
14 PASA To BPA XchgNrg	2.4	2.4	2.4	1.9	0	0	0	0	0	0
15 PASA To BPA PkRepl	2.5	2.5	2.5	1.6	0	0	0	0	0	0
16 PASA To BPA XchgNrg	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
17 PASA To BPA S/N/X	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
18 PASA To BPA PkRepl	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
19 PG&E To PSE S/Pwr/X	46	46	46	27	0	0	0	0	0	0
20 RVSD To BPA XchgNrg	3.1	3.1	3.1	3.1	3.1	3.1	0	0	0	0
21 RVSD To BPA PkRepl	3.0	3.0	3.0	3.0	3.0	3.0	0	0	0	0
22 RVSD To BPA PkRepl	2.8	2.8	2.8	2.8	2.8	1.7	0	0	0	0
23 RVSD To BPA XchgNrg	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
24 RVSD To BPA S/Pwr/X	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
25 RVSD To BPA PkRepl	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
26 Total Imports From PSW	121	111	111	86	44	43	35	35	32	32
-Imports From Inland Southwest-										
27 Other Entities To BPA	42	42	21	0	0	0	0	0	0	0
28 SPP To BPA PwrS	60	60	60	60	60	60	60	60	60	60
29 WAPA To GLEC ARP	3.3	3.3	0.5	0	0	0	0	0	0	0
30 Total Imports From ISW	105	105	81	60	60	60	60	60	60	60
-Imports From Canada-										
31 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1
32 BCHP To SCL PwrS	36	36	36	36	36	36	36	36	36	36
33 Total Imports From Canada	37	37	37	37	37	37	37	37	37	37
-Imports From Other Entities-										
34 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0
-Total Imports-										
35 Federal System	256	246	226	199	184	183	175	175	175	175
36 Public Entities	51	51	49	48	48	48	48	48	48	48
37 Investor-Owned Entities	295	300	240	237	56	49	3.0	3.0	0	0
38 Other Entities	0	0	0	0	0	0	0	0	0	0
39 Total Imports.	603	597	514	484	288	280	226	226	223	223

3/31/2004

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**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>2005 Avg.</i>	<i>2006 Avg.</i>	<i>2007 Avg.</i>	<i>2008 Avg.</i>	<i>2009 Avg.</i>	<i>2010 Avg.</i>	<i>2011 Avg.</i>	<i>2012 Avg.</i>	<i>2013 Avg.</i>	<i>2014 Avg.</i>
-Federal System-										
1 Total Federal System	0	0	0	0	0	0	0	0	0	0
-Public Entities-										
2 Benton CT	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
3 Frederickson CT	73	73	73	73	73	73	73	73	73	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4	4	4	4	4	4	4	4	4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0
8 River Road	221	235	188	172	179	179	172	180	191	201
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
12 Total Public Entities	309	323	276	260	267	267	260	268	279	289
-Investor-Owned Entities-										
13 Basin Creek Project	3.3	4	4	4	4	4	4	4	4	4
14 Beaver	453	452	449	450	452	449	450	454	448	451
15 Beaver 8	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	224	224	224	224	224	224	224	224	224	224
17 Boulder Park	23	23	23	23	23	23	23	23	23	23
18 Danskin	4	4	4	4	4	4	4	4	4	4
19 Encogen	85	96	104	106	105	103	97	94	89	89
20 Frederickson CT	73	73	73	73	73	73	73	73	73	73
21 Fredonia 1&2	31	24	20	16	16	0	16	16	16	15
22 Fredonia 3&4	14	23	31	32	30	31	26	29	23	18
23 Fredrickson 1&2	0.8	4	28	13	14	17	11	8.4	9.3	6.3
24 Kettle Falls CT	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
25 Northeastern 1 & 2	44	44	44	44	44	44	44	44	44	44
26 Whitehorn 2 & 3	0	0.5	6	6.3	4	0	0	0	0	0
27 Total Investor-Owned Entities	961	977	1015	1002	999	978	978	980	963	957
-Other Entities-										
28 Chehalis Generation Facility CCCT	417	417	417	417	417	417	417	417	417	417
29 Frederickson CT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30 Klamath Peaking Unit	14	14	14	14	14	14	14	14	14	14
31 Lancaster Power Project (Rathdrum)	244	244	244	244	244	244	244	244	244	244
32 Total Other Entities	676	676	676	676	676	676	676	676	676	676
-Combustion Turbines-										
33 Federal System	0	0	0	0	0	0	0	0	0	0
34 Public Entities	309	323	276	260	267	267	260	268	279	289
35 Investor-Owned Entities	961	977	1015	1002	999	978	978	980	963	957
36 Other Entities	676	676	676	676	676	676	676	676	676	676
37 Total Combustion Turbines	1946	1976	1967	1937	1941	1921	1914	1923	1918	1922

3/31/2004

[illegible]

3/31/2004

3/31/2004

Table A-10: Regional Large Thermal PNW Loads and Resources Study 2005 - 2014 Operating Years 2003 White Book										3/31/2004
Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
-Boardman: Coal-										
1 Idaho Power Company	43	43	43	43	43	43	43	43	43	43
2 Portland General Electric	283	283	283	283	283	283	283	283	283	283
3 San Diego Gas & Electric	64	64	64	64	64	64	64	64	64	64
4 Turlock Irrigation District	43	43	43	43	43	43	43	43	43	43
5 Boardman: Regional Total	434	434	434	434	434	434	434	434	434	434
-Centralia #1: Coal-										
6 Trans Alta Utilities Corp	626	577	626	577	626	554	626	577	626	577
7 Centralia #1: Regional Total	626	577	626	577	626	554	626	577	626	577
-Centralia #2: Coal-										
8 Trans Alta Utilities Corp	554	626	577	626	577	626	554	626	577	626
9 Centralia #2: Regional Total	554	626	577	626	577	626	554	626	577	626
-Colstrip #1: Coal-										
10 Puget Sound Energy	136	136	136	136	136	136	136	136	136	136
11 Colstrip #1: Regional Total	136	136	136	136	136	136	136	136	136	136
-Colstrip #2: Coal-										
12 Puget Sound Energy	126	132	131	117	125	125	125	125	133	125
13 Colstrip #2: Regional Total	126	132	131	117	125	125	125	125	133	125
-Colstrip #3: Coal-										
14 Avista Corp (WWP Division)	99	96	87	99	93	93	99	93	99	93
15 Pacific Power	66	64	58	66	62	62	66	62	66	62
16 Portland General Electric	132	129	116	132	124	124	132	124	132	124
17 Puget Sound Energy	165	161	145	165	155	155	165	155	165	155
18 Colstrip #3: Regional Total	462	450	406	462	433	433	462	433	462	433
-Colstrip #4: Coal-										
19 Avista Corp (WWP Division)	96	88	92	94	92	92	92	92	92	92
20 Northwestern Energy LLC (MPC)	192	176	184	187	184	184	184	184	184	184
21 Pacific Power	64	59	61	62	61	61	61	61	61	61
22 Portland General Electric	128	117	123	125	123	123	123	123	123	123
23 Puget Sound Energy	160	147	153	156	153	153	153	153	153	153
24 Colstrip #4: Regional Total	640	587	613	624	613	613	613	613	613	613
-Columbia Generating Station: Uranium-										
25 BPA - Power Business	861	1000	877	1000	877	1000	877	1000	877	1000
26 Columbia Generating Station: Regional Total	861	1000	877	1000	877	1000	877	1000	877	1000
-Jim Bridger #1: Coal-										
27 Idaho Power Company	161	161	137	161	157	161	148	161	158	161
28 Pacific Power	321	321	274	321	313	321	295	321	315	321
29 Jim Bridger #1: Regional Total	482	482	411	482	470	482	443	482	473	482
-Jim Bridger #2: Coal-										
30 Idaho Power Company	163	163	159	163	150	163	159	163	149	163
31 Pacific Power	325	325	317	325	299	325	317	325	298	325
32 Jim Bridger #2: Regional Total	488	488	476	488	449	488	476	488	446	488
-Jim Bridger #3: Coal-										
33 Idaho Power Company	155	159	141	159	159	146	159	159	159	159
34 Pacific Power	310	318	282	318	318	292	318	318	318	318
35 Jim Bridger #3: Regional Total	465	477	422	477	477	437	477	477	477	477
-Jim Bridger #4: Coal-										
36 Idaho Power Company	154	150	154	136	154	150	154	141	154	154
37 Pacific Power	307	300	307	272	307	300	307	282	307	307
38 Jim Bridger #4: Regional Total	461	449	461	408	461	450	461	424	461	461
-Valmy #1: Coal-										
39 Idaho Power Company	98	98	97	98	98	98	98	97	98	97
40 Valmy #1: Regional Total	98	98	97	98	98	98	98	97	98	97
-Valmy #2: Coal-										
41 Idaho Power Company	97	97	98	97	97	97	97	97	97	97
42 Valmy #2: Regional Total	97	97	98	97	97	97	97	97	97	97
-Total Large Thermal-										
43 Federal System	861	1000	877	1000	877	1000	877	1000	877	1000
44 Public Entities	43	43	43	43	43	43	43	43	43	43
45 Investor-Owned Entities	5026	4991	4846	4983	4953	4929	4958	4966	4990	5004

Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book

Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
46 Other Entities	0	0	0	0	0	0	0	0	0	0
47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	5930	6034	5766	6026	5873	5973	5878	6009	5910	6047

3/31/2004

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Supplemental & Entitlement Capacity

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>2005 Avg.</i>	<i>2006 Avg.</i>	<i>2007 Avg.</i>	<i>2008 Avg.</i>	<i>2009 Avg.</i>	<i>2010 Avg.</i>	<i>2011 Avg.</i>	<i>2012 Avg.</i>	<i>2013 Avg.</i>	<i>2014 Avg.</i>
-BPA Canada-										
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-										
2 AVWP to BPA	1.9	1.1	0.8	0.8	0.8	1.2	1.3	1.3	1.2	1.2
3 COPD to BPA	0.6	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
4 CWPC to BPA	0	0	0	0	0	0	0	0	0	0
5 EWEB to BPA	0.5	0.3	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.3
6 FGRV to BPA	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 FREC to BPA	0	0	0	0	0	0	0	0	0	0
8 GCPD to BPA	11	19	20	20	20	18	18	18	18	18
9 ICLP to BPA	0	0	0	0	0	0	0	0	0	0
10 KITT to BPA	0.1	0.1	0	0	0	0	0	0	0	0
11 KOOT to BPA	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1
12 LREC to BPA	0	0	0	0	0	0	0	0	0	0
13 LVE to BPA	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1
14 MCMN to BPA	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15 MTFR to BPA	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16 NLEC to BPA	0	0	0	0	0	0	0.1	0	0	0
17 PGE to BPA	4.3	2.5	1.9	1.9	1.8	2.6	3.0	2.9	2.8	2.7
18 PPL to BPA	4.3	2.5	1.9	1.9	1.8	2.6	3.0	2.9	2.8	2.7
19 PSE to BPA	2.5	1.5	1.1	1.1	1.1	1.5	1.7	1.7	1.6	1.6
20 RREC to BPA	0	0	0	0	0	0	0	0	0	0
21 SCL to BPA	2.5	1.4	1	1.0	1.0	0.8	0.7	0.7	0.7	0.7
22 SLEC to BPA	0	0	0	0	0	0	0	0	0	0
23 TPU to BPA	2.5	1.4	1	1.0	1.0	0.8	0.7	0.7	0.7	0.7
24 UNEC to BPA	0	0	0	0	0	0	0	0	0	0
25 Priest Rapids: Regional Totals	31	30	29	28	28	29	30	30	29	29
-Wanapum CER for Canada-										
26 AVWP to BPA	2.4	2.4	2.3	2.2	2.2	1.5	1.3	1.2	1.2	1.1
27 COPD to BPA	0.8	0.8	0.7	0.7	0.7	0.5	0.4	0.4	0.4	0.4
28 CWPC to BPA	0	0	0	0	0	0	0	0	0	0
29 EWEB to BPA	0.7	0.7	0.6	0.6	0.6	0.4	0.4	0.3	0.3	0.3
30 FGRV to BPA	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
31 FREC to BPA	0	0	0	0	0	0	0	0	0	0
32 GCPD to BPA	11	11	10	9.9	9.8	15	17	17	17	17
33 ICLP to BPA	0	0	0	0	0	0	0	0	0	0
34 KITT to BPA	0	0	0	0	0	0	0	0	0	0
35 KOOT to BPA	0	0	0	0	0	0	0.1	0.1	0.1	0
36 LREC to BPA	0	0	0	0	0	0	0	0	0	0
37 LVE to BPA	0	0	0	0	0	0	0.1	0.1	0.1	0.1
38 MCMN to BPA	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
39 MTFR to BPA	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
40 NLEC to BPA	0	0	0	0	0	0	0	0	0	0
41 PGE to BPA	5.5	5.4	5.2	5.1	5	3.3	2.9	2.8	2.7	2.6
42 PPL to BPA	5.5	5.4	5.2	5.1	5	3.3	2.9	2.8	2.7	2.6
43 PSE to BPA	3.2	3.1	3.0	2.9	2.9	1.9	1.6	1.6	1.6	1.5
44 RREC to BPA	0	0	0	0	0	0	0	0	0	0
45 SCL to BPA	0	0	0	0	0	0.5	0.7	0.7	0.7	0.6
46 SLEC to BPA	0	0	0	0	0	0	0	0	0	0
47 TPU to BPA	0	0	0	0	0	0.5	0.7	0.7	0.7	0.6
48 UNEC to BPA	0	0	0	0	0	0	0	0	0	0
49 Wanapum: Regional Totals	29	29	28	27	27	27	29	28	28	27
-Rock Island P.H. #1 CER for Canada-										
50 CHPD to BPA	5.7	5.6	5.4	5.2	5.2	5.3	5.5	5.5	5.4	5.3
51 PSE to BPA	5.7	5.6	5.4	5.2	5.2	5.3	5.5	5.5	5.4	5.3
52 Rock Island P.H. #1: Regional Totals	11	11	11	10	10	11	11	11	11	11
-Rock Island P.H. #2 CER for Canada-										
53 CHPD to BPA	3.6	3.6	3.4	3.3	3.3	3.4	3.5	3.5	3.4	3.4
54 PSE to BPA	3.6	3.6	3.4	3.3	3.3	3.4	3.5	3.5	3.4	3.4
55 Rock Island P.H. #2: Regional Totals	7.3	7.1	6.8	6.7	6.6	6.8	7.1	7.0	6.9	6.8
-Rocky Reach CER for Canada-										
56 AVWP to BPA	1.1	1.1	1.1	1	1	1	1.1	1.1	1.1	1
57 CHPD to BPA	5.8	5.7	5.5	5.4	5.3	5.4	5.7	5.6	5.5	5.5
58 CLKM to BPA	8.9	8.7	8.4	8.2	8.1	8.3	8.7	8.5	8.4	8.3
59 DOPD to BPA	1	1	1.0	1.0	1.0	1.0	1	1	1.0	1.0
60 PGE to BPA	4.7	4.6	4.4	4.3	4.3	4.4	4.6	4.5	4.4	4.4
61 PPL to BPA	2	2	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9
62 PSE to BPA	15	15	14	14	14	14	15	14	14	14
63 Rocky Reach: Regional Totals	39	38	36	36	35	36	38	37	37	36

<div> <div>Continued</div> <div> <div>Table A-15: Canadian Entitlement Return For Canada</div> <div>PNW Loads and Resources Study</div> <div>2005 - 2014 Operating Years</div> <div>2003 White Book</div> </div> <div>3/31/2004</div> </div>										
Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
-Wells CER for Canada-										
64 AVWP to BPA	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
65 DOPD to BPA	7.5	7.3	7.1	6.9	6.8	7.0	7.3	7.2	7.1	7
66 OKPD to BPA	2	2.0	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9
67 PGE to BPA	5.1	5.0	4.8	4.7	4.6	4.7	4.9	4.9	4.8	4.7
68 PPL to BPA	1.7	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.6	1.6
69 PSE to BPA	7.8	7.7	7.4	7.2	7.1	7.3	7.6	7.5	7.4	7.3
70 Wells: Regional Totals	25	24	24	23	23	23	24	24	24	23
-Total CER For Canada-										
71 Federal System	0	0	0	0	0	0	0	0	0	0
72 Public Entities	56	60	60	58	58	62	66	65	65	64
73 Investor-Owned Entities	77	71	66	65	64	62	64	63	62	61
74 Other Entities	8.9	8.7	8.4	8.2	8.1	8.3	8.7	8.5	8.4	8.3
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	142	139	134	131	130	133	139	137	135	133

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>2005 Avg.</i>	<i>2006 Avg.</i>	<i>2007 Avg.</i>	<i>2008 Avg.</i>	<i>2009 Avg.</i>	<i>2010 Avg.</i>	<i>2011 Avg.</i>	<i>2012 Avg.</i>	<i>2013 Avg.</i>	<i>2014 Avg.</i>
-Intra-Regional Transfers-										
1 AVWP To BPA WP3Set	42	42	42	42	42	42	42	42	42	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	42	42	42	42	42	42	42	42	42	42
4 BPA To EWEB PwrS	2	2	0.3	0	0	0	0	0	0	0
5 BPA To Other Entities	139	41	8.9	0	0	0	0	0	0	0
6 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0
7 BPA To PPL CapS	186	186	186	186	186	186	186	15	0	0
8 BPA To PPL S/Pwr/X	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	0
9 BPA To PPL PwrS	94	94	94	94	94	94	94	94	94	94
10 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0
11 BPA To PSE WP3Set	42	42	42	42	42	42	42	42	42	42
12 CHPD To PGE C/N/X	10	10	10	10	10	10	6	0	0	0
13 CIDF To UPL PwrS	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
14 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
15 GCPD To PPL PwrS	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
16 NWCP To PSE PwrS	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	1.9	0
17 NWE To MVP PwrS	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
18 NWE To PSE PwrS	89	82	89	89	82	89	37	0	0	0
19 Other Entities To AVWP	100	100	100	100	100	100	42	0	0	0
20 Other Entities To BPA	1064	907	228	0	0	0	0	0	0	0
21 Other Entities To GHPD	15	15	2.5	0	0	0	0	0	0	0
22 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45
23 PGE To CHPD PkRepl	7.4	7.4	7.4	7.4	7.4	7.4	4.5	0	0	0
24 PGE To CHPD XchgNrg	12	12	12	12	12	12	8.3	0	0	0
25 PGE To PPL Cove Repl	1	1	1	1	1	0.9	0	0	0	0
26 PKE To SCL PwrS	95	95	40	0	0	0	0	0	0	0
27 POPD To SCL PwrS	9	0	0	0	0	0	0	0	0	0
28 PPL To AVWP S/Pwr/X	0	0	0	0	0	0	0	0	0	0
29 PPL To BPA S/Pwr/X	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
30 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0
31 PPL To BPA PkRepl	186	186	186	186	186	186	186	15	0	0
32 PPL To FLHD PwrS	16	16	2.7	0	0	0	0	0	0	0
33 PPL To SUB PwrS	28	28	28	28	28	28	28	28	28	28
34 PSE To BPA WP3Set	42	42	42	42	42	42	42	42	42	42
35 SCL To POPD PwrS	32	43	43	43	43	43	43	0	0	0
36 SHPD To PSE PwrS	11	11	11	11	11	6.8	0	0	0	0
37 TAUC To AVWP PwrS	174	181	181	181	181	177	174	181	181	181
38 TPU To BPA PwrX	26	26	5.8	0	0	0	0	0	0	0
39 WSPE To PGE PwrS	41	41	41	41	41	41	41	41	41	41
40 GCPD To AVWP PwrS	0	15	22	22	22	21	20	3	0	0
41 GCPD To COPD PwrS	0	5.2	7.2	7.3	7.3	6.8	6.8	1	0	0
42 GCPD To EWEB PwrS	0	4.2	6.1	6.2	6.2	5.9	5.8	0.8	0	0
43 GCPD To FGRV PwrS	0	1.2	1.9	1.9	2	1.6	1.4	0.3	0	0
44 GCPD To FREC PwrS	0	0.3	0.5	0.7	0.7	0.7	0.7	0.2	0	0
45 GCPD To KITT PwrS	0	0.9	1.2	1.2	1.2	0.8	0.6	0.1	0	0
46 GCPD To KOOT PwrS	0	0.8	1	1	1	1	1	0.2	0	0
47 GCPD To LVE PwrS	0	0.8	1	1	1	1	1	0.2	0	0
48 GCPD To LVE PwrS	0	0.8	1	1	0.2	0	0	0	0	0
49 GCPD To MCMN PwrS	0	1.2	1.9	1.9	2	1.6	1.4	0.3	0	0
50 GCPD To MTRF PwrS	0	1.2	1.9	1.9	2	1.6	1.4	0.3	0	0
51 GCPD To PGE PwrS	0	34	50	51	51	48	47	6.8	0	0
52 GCPD To PPL PwrS	0	34	50	51	51	48	47	6.8	0	0
53 GCPD To PSE PwrS	0	20	28	29	29	28	27	3.9	0	0
54 GCPD To TPU PwrS	0	16	23	23	23	14	12	1.7	0	0
55 Total Intra-Regional Transfers	2645	2527	1780	1495	1488	1468	1330	705	647	639
-Total Contracts Out-										
56 Federal System	512	413	380	370	370	370	370	199	184	178
57 Public Entities	107	244	284	282	281	258	242	44	16	14
58 Investor-Owned Entities	898	896	729	694	687	691	627	413	398	398
59 Other Entities	1129	973	386	149	149	149	91	49	49	49
60 Total Contracts Out	2645	2527	1780	1495	1488	1468	1330	705	647	639
-Total Contracts In-										
61 Federal System	1376	1220	519	285	286	286	286	115	100	100
62 Public Entities	221	252	183	139	138	127	116	33	28	28
63 Investor-Owned Entities	928	1018	1069	1071	1064	1056	928	557	519	511
64 Other Entities	120	38	8.3	0	0	0	0	0	0	0
65 Total Contracts In	2645	2527	1780	1495	1488	1468	1330	705	647	639

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Small Thermal & Misc. Reserves

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Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
-Wanapum-										
1 Wanapum	433	433	433	433	433	433	433	433	433	433
2 Wanapum Before Enc	433	433	433	433	433	433	433	433	433	433
-Wanapum-										
3 AVWP Share	30	30	30	30	30	20	16	16	15	15
4 COPD Share	9.8	9.8	9.8	9.8	9.8	6.4	5.2	5.2	5.1	5.0
5 CWPC Share	0	0	0	0	0	0.3	0.4	0.4	0.4	0.4
6 EWEB Share	8.3	8.3	8.3	8.3	8.3	5.5	4.4	4.4	4.3	4.2
7 FGRV Share	2.5	2.5	2.5	2.5	2.5	1.6	1.3	1.3	1.3	1.3
8 FREC Share	0	0	0	0	0	0.3	0.5	0.4	0.4	0.4
9 GCPD Share	132	132	132	132	132	195	217	219	222	224
10 ICLP Share	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1
11 KITT Share	0	0	0	0	0	0.3	0.4	0.4	0.4	0.4
12 KOOT Share	0	0	0	0	0	0.5	0.7	0.7	0.7	0.6
13 LREC Share	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1
14 LVE Share	0	0	0	0	0	0.6	0.8	0.8	0.8	0.8
15 MCMN Share	2.5	2.5	2.5	2.5	2.5	1.6	1.3	1.3	1.3	1.3
16 MTRF Share	2.5	2.5	2.5	2.5	2.5	1.6	1.3	1.3	1.3	1.3
17 NLEC Share	0	0	0	0	0	0.5	0.6	0.6	0.6	0.6
18 PGE Share	68	68	68	68	68	44	36	36	35	34
19 PPL Share	68	68	68	68	68	44	36	36	35	35
20 PSE Share	39	39	39	39	39	26	21	21	20	20
21 RREC Share	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1
22 SCL Share	0	0	0	0	0	6.7	8.9	8.8	8.6	8.5
23 SLEC Share	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1
24 TPU Share	0	0	0	0	0	6.7	8.9	8.8	8.6	8.5
25 UNEC Share	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2
26 Wanapum After Enc	362	362	362	362	362	362	362	362	362	362
-Priest Rapids-										
27 Priest Rapids	353	353	353	353	353	353	353	353	353	353
28 Priest Rapids Before Enc	353	353	353	353	353	353	353	353	353	353
-Priest Rapids-										
29 AVWP Share	21	13	9.7	9.7	9.7	13	15	15	14	14
30 COPD Share	6.7	4.2	3.2	3.2	3.2	4.4	4.9	4.8	4.7	4.6
31 CWPC Share	0	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3
32 EWEB Share	5.7	3.6	2.7	2.7	2.7	3.8	4.1	4.1	4	3.9
33 FGRV Share	1.7	1	0.8	0.8	0.8	1.1	1.2	1.2	1.2	1.2
34 FREC Share	0	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
35 GCPD Share	123	204	236	236	236	211	203	204	207	209
36 ICLP Share	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
37 KITT Share	1.3	0.8	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.4
38 KOOT Share	0	0.3	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6
39 LREC Share	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40 LVE Share	0	0.4	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7
41 MCMN Share	1.7	1	0.8	0.8	0.8	1.1	1.2	1.2	1.2	1.2
42 MTRF Share	1.7	1	0.8	0.8	0.8	1.1	1.2	1.2	1.2	1.2

3/31/2004

[illegible]

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2005 - 2014 Operating Years
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>2005 Avg.</i>	<i>2006 Avg.</i>	<i>2007 Avg.</i>	<i>2008 Avg.</i>	<i>2009 Avg.</i>	<i>2010 Avg.</i>	<i>2011 Avg.</i>	<i>2012 Avg.</i>	<i>2013 Avg.</i>	<i>2014 Avg.</i>
-Federal Entities-										
1 BPA To Federal Entities	119	119	120	120	121	121	122	119	118	118
2 Total Federal Entities	119	119	120	120	121	121	122	119	118	118
-U.S. Bureau of Reclamation-										
3 BPA To U.S. Bureau of Reclamation	149	149	149	149	149	149	149	149	149	149
4 Total U.S. Bureau of Reclamation	149	149	149	149	149	149	149	149	149	149
-Direct Service Industry-										
5 BPA To Direct Service Industry	267	271	45	0	0	0	0	0	0	0
6 Total Direct Service Industry	267	271	45	0	0	0	0	0	0	0
-Generating Public Entities-										
7 BPA To Generating Public Entities	2142	2126	2367	2431	2443	2454	2463	2494	2511	2518
8 Total Generating Public Entities	2142	2126	2367	2431	2443	2454	2463	2494	2511	2518
-Generating Public Entities (Slice)-										
9 BPA To Generating Public Entities (Slice)	1011	1034	1022	1044	1030	1049	1034	1053	1038	1056
10 Total Generating Public Entities (Slice)	1011	1034	1022	1044	1030	1049	1034	1053	1038	1056
-Non-Generating Public Entities-										
11 BPA To Non-Generating Public Entities	2716	2755	2917	2974	3009	3044	3078	3103	3137	3169
12 Total Non-Generating Public Entities	2716	2755	2917	2974	3009	3044	3078	3103	3137	3169
-Non-Generating Public Entities (Slice)-										
13 BPA To Non-Generating Public Entities (Slice)	607	621	614	627	618	630	621	632	623	634
14 Total Non-Generating Public Entities (Slice)	607	621	614	627	618	630	621	632	623	634
-Investor-Owned Entities-										
15 BPA To Investor-Owned Entities	382	382	64	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	382	382	64	0	0	0	0	0	0	0
-Other Entities-										
17 BPA To Other PNW Entities	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-										
19 Federal Entities	119	119	120	120	121	121	122	119	118	118
20 U.S. Bureau of Reclamation	149	149	149	149	149	149	149	149	149	149
21 Direct Service Industry	267	271	45	0	0	0	0	0	0	0
22 Generating Public Entities	3152	3160	3389	3475	3472	3503	3498	3547	3549	3574
23 Non-Generating Public Entities	3322	3376	3530	3601	3627	3674	3699	3735	3760	3803
24 Investor-Owned Entities	382	382	64	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7391	7458	7298	7346	7370	7448	7468	7551	7577	7644

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>2005 Avg.</i>	<i>2006 Avg.</i>	<i>2007 Avg.</i>	<i>2008 Avg.</i>	<i>2009 Avg.</i>	<i>2010 Avg.</i>	<i>2011 Avg.</i>	<i>2012 Avg.</i>	<i>2013 Avg.</i>	<i>2014 Avg.</i>
-Federal Entities-										
1 Federal Entities	92	92	110	119	119	119	119	119	119	119
2 Total Federal Entities	92	92	110	119	119	119	119	119	119	119
-Generating Public Entities-										
3 Generating Public Entities	232	232	232	232	232	232	232	232	232	232
4 Total Generating Public Entities	232	232	232	232	232	232	232	232	232	232
-Non-Generating Public Entities-										
5 Non-Generating Public Entities	10	6.8	4.4	4.4	4.4	4.3	4.1	4.1	4.1	4.1
6 Total Non-Generating Public Entities	10	6.8	4.4	4.4	4.4	4.3	4.1	4.1	4.1	4.1
-Investor-Owned Entities-										
7 Investor-Owned Entities	876	876	896	896	896	897	900	900	901	901
8 Total Investor-owned Entities	876	876	896	896	896	897	900	900	901	901
-Other Entities-										
9 Other Entities	85	85	85	85	85	85	85	85	85	85
10 Total Other Entities	85	85	85	85	85	85	85	85	85	85
-Total Non-Utility Generating Resources-										
11 Federal Entities	92	92	110	119	119	119	119	119	119	119
12 Public Entities	242	239	237	237	237	237	237	237	237	237
13 Investor-Owned Entities	876	876	896	896	896	897	900	900	901	901
14 Other Entities	85	85	85	85	85	85	85	85	85	85
15 Total Non-Utility Generation	1296	1292	1329	1337	1337	1338	1340	1340	1341	1341

**Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
<u>Federal Entities</u>										
<i>-NUG: Hydro-</i>										
1 Clearwater - State of ID DWR (BPA)	1	1	1	1	1	1	1	1	1	1
2 Dworshak Small Hydropower (BPA)	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
3 Elwah Hydro (BPA)	8.6	8.6	0	0	0	0	0	0	0	0
4 Glines Hydro (BPA)	15	15	0	0	0	0	0	0	0	0
5 Federal -Total NUG: Hydro	27	27	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
<i>-NUG: Renewables-</i>										
6 Ashland Solar Project (BPA)	0	0	0	0	0	0	0	0	0	0
7 Condon Wind Project (BPA)	12	12	12	12	12	12	12	12	12	12
8 Foote Creek 1 (BPA)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
9 Foote Creek 2 (BPA)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
10 Foote Creek 4 (BPA)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
11 Klondike Phase 1 (BPA)	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
12 Stateline Wind Project (BPA)	30	30	30	30	30	30	30	30	30	30
13 Fourmile Hill Geothermal (BPA)	0	0	42	50	50	50	50	50	50	50
14 Federal -Total NUG: Renewables	65	65	107	115	115	115	115	115	115	115
<u>Generating Public Entities</u>										
<i>-NUG: Hydro-</i>										
15 Don Steffen (SHPD)	0	0	0	0	0	0	0	0	0	0
16 Eltopia Br Canal 4.6 (SCL)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
17 Eltopia Br Canal 4.6 (TPU)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
18 John Llewellyn (SHPD)	0	0	0	0	0	0	0	0	0	0
19 Kevin Duncan (SHPD)	0	0	0	0	0	0	0	0	0	0
20 Lucky Peak (SCL)	38	38	38	38	38	38	38	38	38	38
21 Main Canal Headworks (SCL)	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
22 Main Canal Headworks (TPU)	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
23 PEC Headworks (GCPD)	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
24 Pickering Micro Hydro (CKPD)	0	0	0	0	0	0	0	0	0	0
25 Potholes E Canal 66.0 (SCL)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
26 Potholes E Canal 66.0 (TPU)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
27 Quincy Chute (GCPD)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
28 Russel D. Smith (SCL)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
29 Russel D. Smith (TPU)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
30 Smith Creek (EWEB)	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
31 Summer Falls (SCL)	18	18	18	18	18	18	18	18	18	18
32 Summer Falls (TPU)	18	18	18	18	18	18	18	18	18	18
33 Woods Creek (SHPD)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 GPU - Total NUG: Hydro	105	105	105	105	105	105	105	105	105	105
<i>-NUG: Small Thermal & Misc.-</i>										
35 Grays Harbor Paper (GHPD)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
36 Weyerhaeuser Pulp Mill (GHPD)	11	11	11	11	11	11	11	11	11	11
37 GPU - Total NUG: Small Thermal & Misc.	15	15	15	15	15	15	15	15	15	15
<i>-NUG: Co-Generation-</i>										
38 Metro Westpoint (SCL)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
39 Scott Paper (SHPD)	33	33	33	32	32	32	32	32	32	32
40 GPU - Total NUG: Co-Generation	34	34	34	34	34	34	34	34	34	34
<i>-NUG: Renewables-</i>										
41 Foote Creek 1 (EWEB)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
42 Nine Canyon Wind Project (CHPD)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
43 Nine Canyon Wind Project (COPD)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
44 Nine Canyon Wind Project (DOPD)	3	3	3	3	3	3	3	3	3	3
45 Nine Canyon Wind Project (GCPD)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
46 Nine Canyon Wind Project (GHPD)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
47 Nine Canyon Wind Project (OKPD)	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
48 Stateline Wind Project (EWEB)	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
49 Stateline Wind Project (SCL)	50	50	50	50	50	50	50	50	50	50
50 GPU - Total NUG: Renewables	79	79	79	79	79	79	79	79	79	79
<u>Non-Generating Public Entities</u>										
<i>-NUG: Hydro-</i>										
51 Buffalo Hydro (FREC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
52 Burr & Bouchard (TNEC)	0	0	0	0	0	0	0	0	0	0
53 City of Cove (OTEC)	0.3	0.3	0.3	0.3	0.3	0.1	0	0	0	0
54 Falls Creek (CCPD)	0	0	0	0	0	0	0	0	0	0
55 Lilliwaup Falls Generating Co. (MCPD1)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
56 Thomas Burnside (TNEC)	0	0	0	0	0	0	0	0	0	0
57 NGP - Total NUG: Hydro	1.2	1.2	1.2	1.2	1.2	1	0.9	0.9	0.9	0.9

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book

Continued

3/31/2004

[illegible]

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2005 - 2014 Operating Years
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
125 L. Fery (PPL)	0	0	0	0	0	0	0	0	0	0
126 Lacombe Irrig. (PPL)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
127 Lake Oswego (PGE)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
128 Lateral #10 (IPC)	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
129 Lee Tavenner (NWE)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
130 Lemoyne (IPC)	0	0	0	0	0	0	0	0	0	0
131 Little Wood River Res. (IPC)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
132 Littlewood/Arkoosh (IPC)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
133 Lowline #2 (IPC)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
134 Lowline Canal (IPC)	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
135 Magic Reservoir (IPC)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
136 Malad River (IPC)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
137 Marcos Ranches (IPC)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
138 Marsh Valley (UPL)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
139 Meyers Falls (AVWP)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
140 Middlefork Irrig. (PPL)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
141 Mile 28 (IPC)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
142 Minikahda (PGE)	0	0	0	0	0	0	0	0	0	0
143 Mink Creek (UPL)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
144 Mitchell Butte (IPC)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
145 Mountain Energy (PPL)	0	0	0	0	0	0	0	0	0	0
146 Mt. Tabor (PGE)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
147 Mud Creek/S&S (IPC)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
148 Mud Creek/White (IPC)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
149 Nichols Gap (PPL)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
150 Nicholson Sunnybar (UPL)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
151 North Fork Sprague (PPL)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
152 O.J. Power (UPL)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
153 Odell Creek (PPL)	0	0	0	0	0	0	0	0	0	0
154 Opal Springs (PPL)	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
155 Owyhee Dam (IPC)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
156 Pancheri (UPL)	0	0	0	0	0	0	0	0	0	0
157 Pelton Rereg. Dam (PPL)	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
158 Phillips Ranch (AVWP)	0	0	0	0	0	0	0	0	0	0
159 Phillipsburg (NWE)	0	0	0	0	0	0	0	0	0	0
160 Pigeon Cove (IPC)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
161 Pine Creek (NWE)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
162 Port Townsend Paper Hydro (PSE)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163 Portland (PGE)	0	0	0	0	0	0	0	0	0	0
164 Portland Hydro Project (PGE)	12	12	12	12	12	12	12	12	12	12
165 Preston City (UPL)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
166 Pristine Springs (IPC)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
167 Pristine Springs #3 (IPC)	0.2	0								

<div> <div>Continued</div> <div> <div>Table A-24: Regional Non Utility Generating Resources By Project</div> <div>PNW Loads and Resources Study</div> <div>2005 - 2014 Operating Years</div> <div>2003 White Book</div> </div> <div>3/31/2004</div> </div>										
Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
200 IOU - Total NUG: Hydro	148	148	148	148	148	148	148	148	148	148
-NUG: Small Thermal & Misc.-										
201 Marion Solid Waste (PGE)	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
202 Minnesota Methane (AVWP)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
203 Montana One (NWE)	7.7	7.7	8.1	8.0	8	8.3	9.3	9.4	9.7	9.6
204 Pocatello Waste (IPC)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
205 Spokane MSW (PSE)	15	15	15	15	15	15	15	15	15	15
206 West Boise Waste (IPC)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
207 IOU - Total NUG: Small Thermal & Misc.	33	33	34	34	34	34	35	35	35	35
-NUG: Combustion Turbines -										
208 March Point #1 Cogeneration (PSE)	77	77	77	77	77	77	77	77	77	77
209 March Point #2 Cogeneration (PSE)	58	58	58	58	58	58	58	58	58	58
210 Rathdrum- Boekel Rd. #1 (AVWP)	62	62	62	62	62	62	62	62	62	62
211 Rathdrum -Boekel Rd. #2 (AVWP)	62	62	62	62	62	62	62	62	62	62
212 Tenaska Gas Cogen (PSE)	215	215	235	235	235	235	235	235	235	235
213 IOU - Total NUG: Combustion Turbines	475	475	494	494	494	494	494	494	494	494
-NUG: Co-Generation-										
214 Billings Generation (NWE)	13	13	14	14	14	14	16	16	17	17
215 Biomass One (PPL)	19	19	19	19	19	19	19	19	19	19
216 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
217 Champion (PPL)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
218 DR Johnson - Co-Gen II (PPL)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
219 Magic Valley (IPC)	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
220 Magic West (IPC)	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
221 PERC Pierce, Wa (PSE)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
222 Simplot Pocatello (IPC)	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
223 Sumas Energy (PSE)	120	120	120	120	120	120	120	120	120	120
224 Tamarack (IPC)	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
225 TESCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
226 TESCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0
227 Vaagen Bros. (IPC)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
228 Warm Springs (PPL)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
229 IOU - Total NUG: Co-Generation	209	209	210	210	210	210	212	212	213	213
-NUG: Renewables-										
230 Foote Creek 1 (PPL)	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
231 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0
232 Josef Staufer (NWE)	0	0	0	0	0	0	0	0	0	0
233 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0
234 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0
235 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2
236 Stateline Wind Project (AVWP)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
237 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0
238 IOU - Total NUG: Renewables	10	10	10	10	10	10	10	10	10	10
Other Entities										
-NUG: Co-Generation-										
239 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25
240 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-										
241 Stateline Wind Project (PPME)	53	53	53	53	53	53	53	53	53	53
242 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
243 Other - Total NUG: Renewables	60	60	60	60	60	60	60	60	60	60
-Total Non-Utility Generating Resources-										
244 Federal Entities	92	92	110	119	119	119	119	119	119	119
245 Generating Public Entities	232	232	232	232	232	232	232	232	232	232
246 Non Generating Public Entities	10	6.8	4.4	4.4	4.4	4.3	4.1	4.1	4.1	4.1
247 Investor-Owned Entities	876	876	896	896	896	897	900	900	901	901
248 Other Entities	85	85	85	85	85	85	85	85	85	85
249 Total Non-Utility Generation	1296	1292	1329	1337	1337	1338	1340	1340	1341	1341

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2005 - 2014 Operating Years
1937 Water Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.	2012 Avg.	2013 Avg.	2014 Avg.
-Generating Public Entities-										
1 Generating Public Entities	2274	2109	2019	2027	2041	2002	1978	2141	2175	2186
2 Total Generating Public Entities	2274	2109	2019	2027	2041	2002	1978	2141	2175	2186
-Non-Generating Public Entities-										
3 Small & Non Generating Public Entities	83	85	70	67	66	66	66	59	58	58
4 Total Non-Generating Public Entities	83	85	70	67	66	66	66	59	58	58
-Investor-Owned Entities-										
5 Investor-Owned Entities	6804	6879	6781	6869	6871	6800	6743	6650	6626	6662
6 Total Investor-owned Entities	6804	6879	6781	6869	6871	6800	6743	6650	6626	6662
-Total Dedicated Resources-										
7 Generating Public Entities	2274	2109	2019	2027	2041	2002	1978	2141	2175	2186
8 Small & Non Generating Entities	83	85	70	67	66	66	66	59	58	58
9 Investor-Owned Entities	6804	6879	6781	6869	6871	6800	6743	6650	6626	6662
10 Regional Total Dedicated Resources	9161	9072	8870	8963	8978	8868	8787	8850	8859	8906

**Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2005 - 2014 Operating Years
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>2005 Avg.</i>	<i>2006 Avg.</i>	<i>2007 Avg.</i>	<i>2008 Avg.</i>	<i>2009 Avg.</i>	<i>2010 Avg.</i>	<i>2011 Avg.</i>	<i>2012 Avg.</i>	<i>2013 Avg.</i>	<i>2014 Avg.</i>
-Generating Public Entities-										
1 Generating Public Entities	4458	4501	4662	4730	4713	4767	4751	4769	4755	4804
2 Total Generating Public Entities	4458	4501	4662	4730	4713	4767	4751	4769	4755	4804
-Non-Generating Public Entities-										
3 Small & Non Generating Public Entities	3979	4047	4194	4278	4296	4354	4370	4417	4436	4491
4 Total Non-Generating Public Entities	3979	4047	4194	4278	4296	4354	4370	4417	4436	4491
-Investor-Owned Entities-										
5 Investor-Owned Entities	3413	3499	3179	3173	3146	3122	3079	3022	3044	3009
6 Total Investor-owned Entities	3413	3499	3179	3173	3146	3122	3079	3022	3044	3009
-Total Dedicated Resources-										
7 Generating Public Entities	4458	4501	4662	4730	4713	4767	4751	4769	4755	4804
8 Non Generating Entities	3979	4047	4194	4278	4296	4354	4370	4417	4436	4491
9 Investor-Owned Entities	3413	3499	3179	3173	3146	3122	3079	3022	3044	3009
10 Regional Total Dedicated Resources	11850	12046	12035	12181	12155	12243	12199	12208	12235	12304

Section 4
Monthly Federal Tables
Loads & Resources
Average Energy in Megawatts

Loads and Resources - Federal System
PNW Loads and Resources Study
2004 - 2005 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	120	120	108	106	122	136	137	131	123	110	110	108	108	115	119
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	277	276	274	271	269	266	263	262	262	265	265	265	265	265	267
Total Firm Non-Utility Obligations	706	671	548	506	391	402	400	394	408	627	690	641	671	712	535
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2618	2618	2399	2386	2678	3076	3175	3035	2765	2602	2597	2540	2600	2717	2716
GPU 2002 PSC Sale	1731	1731	1895	1925	2290	2581	2622	2601	2382	2147	2141	2030	1763	1733	2142
NGP Slice Sale	840	645	499	609	665	670	549	524	571	542	523	556	638	724	607
GPU Slice Sale	1399	1074	831	1014	1108	1117	915	873	951	903	870	927	1063	1206	1011
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	1070	1071	1062	974	961	995	991	987	950	974	974	992	1070	1064	1007
Intra-Regional Transfers (Out)	1248	1277	461	346	647	660	658	602	450	367	368	172	232	282	512
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	9288	8798	7528	7637	8731	9481	9293	9004	8451	7918	7855	7599	7750	8107	8376
Total Firm Obligations	9993	9468	8076	8143	9122	9883	9692	9398	8858	8546	8545	8240	8421	8819	8911
Hydro Resources															
Regulated Hydro	9248	6885	5135	6320	7020	7142	5731	5407	5916	5561	5238	6095	7314	7806	6446
Independent Hydro	437	435	370	386	305	237	176	196	275	434	515	711	746	451	397
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	143	143	143	143	143	143	143	143	143	141	141	141	141	141	142
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	9828	7463	5647	6849	7468	7522	6050	5746	6333	6136	5894	6947	8201	8399	6985
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	183	183	216	270	338	395	369	325	295	276	238	101	123	204	256
Intra-Regional Transfers (In)	1448	1452	1623	1521	1567	1503	1562	1550	1529	1273	873	754	875	1396	1367
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	194	133	1000	861
Non-Utility Generation	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	2741	2743	2924	2895	3035	3034	3069	3004	2946	2692	2254	1183	1253	2702	2605
Total Resources	12569	10206	8572	9743	10502	10555	9119	8750	9279	8828	8149	8130	9454	11101	9590
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-354	-288	-242	-275	-296	-298	-257	-247	-262	-249	-230	-229	-267	-313	-270
Total Reserves, Maintenance & Losses	-354	-288	-242	-275	-296	-298	-257	-247	-262	-249	-230	-229	-267	-313	-270
Total Net Resources	12215	9918	8330	9469	10206	10257	8862	8503	9017	8579	7919	7900	9187	10788	9320
Total Firm Surplus/Deficit	2221	450	254	1326	1084	375	-830	-895	159	34	-626	-339	767	1969	409

Loads and Resources - Federal System
PNW Loads and Resources Study
2005 - 2006 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	120	120	109	106	122	137	137	132	123	111	111	108	109	116	119
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	265	265	265	272	272	272	272	272	272	272	272	272	272	272	271
Total Firm Non-Utility Obligations	694	660	540	508	394	409	409	405	418	635	698	648	679	720	539
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2654	2654	2432	2416	2712	3116	3223	3082	2808	2644	2637	2580	2640	2759	2755
GPU 2002 PSC Sale	1723	1723	1897	1935	2299	2585	2626	2580	2388	2101	2095	1980	1715	1685	2126
NGP Slice Sale	846	651	504	613	670	675	553	528	574	546	526	609	713	726	621
GPU Slice Sale	1410	1084	840	1021	1116	1124	921	879	957	909	875	1015	1188	1210	1034
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	1036	1036	1027	935	939	954	952	948	940	964	963	983	991	945	968
Intra-Regional Transfers (Out)	252	253	292	346	647	660	658	602	450	367	368	172	232	282	413
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8303	7782	7374	7649	8765	9496	9316	9001	8499	7913	7847	7722	7862	7989	8300
Total Firm Obligations	8998	8443	7914	8157	9159	9905	9725	9405	8917	8548	8545	8370	8541	8709	8839
Hydro Resources															
Regulated Hydro	9278	6907	5151	6342	7050	7171	5752	5427	5931	5577	5248	6096	7328	7811	6464
Independent Hydro	437	435	370	386	305	237	176	196	275	434	515	711	747	451	397
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	141	141	141	141	141	141	141	141	141	136	136	136	136	136	139
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	9856	7484	5663	6869	7497	7550	6069	5765	6347	6146	5899	6942	8210	8398	7000
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	183	183	216	250	318	375	349	305	275	276	238	101	123	204	246
Intra-Regional Transfers (In)	1422	1425	1567	1520	1568	1503	1161	1151	1128	873	871	756	874	996	1210
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Non-Utility Generation	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	2715	2716	2869	2874	3016	3014	2648	2585	2525	2292	2252	1991	2119	2302	2577
Total Resources	12571	10200	8532	9743	10512	10563	8717	8350	8871	8438	8151	8933	10329	10700	9578
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-354	-288	-241	-275	-296	-298	-246	-235	-250	-238	-230	-252	-291	-302	-270
Total Reserves, Maintenance & Losses	-354	-288	-241	-275	-296	-298	-246	-235	-250	-238	-230	-252	-291	-302	-270
Total Net Resources	12216	9913	8291	9468	10216	10265	8471	8114	8621	8200	7921	8681	10038	10399	9307
Total Firm Surplus/Deficit	3219	1470	377	1311	1057	361	-1254	-1291	-296	-347	-624	311	1497	1690	468

**Loads and Resources - Federal System
PNW Loads and Resources Study
2006 - 2007 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	121	121	109	107	123	137	138	132	124	111	111	109	109	116	120
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	272	272	272	0	0	0	0	0	0	0	0	0	0	0	45
Total Firm Non-Utility Obligations	702	668	547	236	123	137	138	133	147	363	426	377	407	448	314
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2695	2695	2480	2580	2906	3270	3419	3274	2967	2817	2809	2772	2856	2972	2917
GPU 2002 PSC Sale	1686	1686	1860	2273	2651	2970	2984	2929	2710	2349	2342	2151	1877	1971	2367
NGP Slice Sale	851	655	508	615	673	678	556	530	577	549	528	553	653	730	614
GPU Slice Sale	1417	1091	846	1025	1120	1129	925	882	960	914	879	921	1088	1215	1022
IOU 2002 PSC Sale	382	382	382	0	0	0	0	0	0	0	0	0	0	0	64
Exports	891	891	884	737	741	757	755	751	743	766	766	784	793	787	783
Intra-Regional Transfers (Out)	252	253	292	291	592	605	602	547	394	361	362	167	227	226	380
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8173	7652	7252	7522	8683	9409	9242	8913	8351	7755	7686	7349	7494	7901	8146
Total Firm Obligations	8875	8320	7799	7758	8806	9546	9380	9046	8498	8118	8112	7726	7901	8349	8460
Hydro Resources															
Regulated Hydro	9303	6930	5175	6370	7083	7205	5778	5451	5956	5604	5272	6121	7360	7846	6492
Independent Hydro	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	136	136	136	136	136	136	136	136	136	132	132	132	132	132	134
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	9877	7501	5681	6892	7525	7578	6090	5783	6367	6170	5920	6965	8239	8430	7024
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	183	183	216	250	318	375	299	255	225	226	188	101	123	154	226
Intra-Regional Transfers (In)	1024	1022	1167	693	739	674	324	312	290	285	285	167	286	159	510
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	355	167	1000	877
Non-Utility Generation	59	59	52	116	127	127	130	125	119	121	121	118	120	109	110
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	2293	2291	2463	2086	2213	2207	1784	1722	1664	1662	1624	768	724	1449	1751
Total Resources	12169	9793	8143	8979	9738	9785	7874	7506	8031	7832	7544	7733	8963	9879	8775
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-343	-276	-230	-253	-275	-276	-222	-212	-226	-221	-213	-218	-253	-279	-247
Total Reserves, Maintenance & Losses	-343	-276	-230	-253	-275	-276	-222	-212	-226	-221	-213	-218	-253	-279	-247
Total Net Resources	11826	9516	7914	8725	9463	9509	7652	7294	7804	7611	7331	7515	8710	9601	8527
Total Firm Surplus/Deficit	2951	1197	114	967	657	-37	-1728	-1752	-693	-507	-781	-211	809	1252	67

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	122	122	110	107	123	138	139	133	124	112	112	109	110	117	120
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	431	397	276	236	123	138	139	134	147	364	427	377	408	449	270
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2924	2924	2649	2607	2938	3306	3457	3275	3000	2847	2839	2802	2886	3003	2974
GPU 2002 PSC Sale	2039	2039	2180	2282	2663	2983	2997	2923	2723	2357	2350	2161	1887	1979	2431
NGP Slice Sale	855	658	511	619	677	682	559	533	579	551	530	613	719	734	627
GPU Slice Sale	1425	1097	850	1030	1127	1136	930	887	964	918	883	1021	1198	1222	1044
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	775	775	768	734	739	756	650	646	638	661	653	667	672	667	697
Intra-Regional Transfers (Out)	197	197	236	291	592	605	602	540	394	361	362	167	227	226	370
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8215	7690	7194	7564	8735	9468	9196	8804	8299	7694	7618	7432	7589	7831	8143
Total Firm Obligations	8645	8087	7470	7800	8858	9606	9334	8938	8446	8058	8044	7809	7997	8279	8413
Hydro Resources															
Regulated Hydro	9358	6971	5203	6407	7131	7252	5812	5483	5984	5633	5296	6136	7392	7894	6527
Independent Hydro	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	132	132	132	132	132	132	132	132	132	130	130	130	130	130	131
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	9928	7539	5706	6925	7568	7621	6120	5812	6391	6197	5942	6979	8270	8476	7056
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	133	133	166	200	268	325	299	255	225	226	173	83	101	132	199
Intra-Regional Transfers (In)	184	184	329	318	364	300	324	305	290	285	285	167	286	159	276
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Non-Utility Generation	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	1452	1453	1624	1661	1788	1783	1784	1716	1664	1662	1609	1395	1535	1427	1622
Total Resources	11380	8992	7330	8586	9356	9404	7905	7527	8055	7859	7551	8373	9804	9903	8678
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-321	-254	-207	-242	-264	-265	-223	-212	-227	-222	-213	-236	-276	-279	-245
Total Reserves, Maintenance & Losses	-321	-254	-207	-242	-264	-265	-223	-212	-227	-222	-213	-236	-276	-279	-245
Total Net Resources	11059	8739	7123	8344	9092	9139	7682	7315	7828	7638	7338	8137	9528	9624	8433
Total Firm Surplus/Deficit	2414	652	-347	544	234	-467	-1653	-1623	-617	-420	-706	328	1531	1345	20

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	122	122	110	108	124	139	139	134	125	112	112	110	110	117	121
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	431	397	277	237	124	139	139	134	148	364	427	378	408	449	270
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2955	2955	2677	2634	2969	3343	3494	3348	3034	2878	2871	2832	2916	3034	3009
GPU 2002 PSC Sale	2049	2049	2188	2292	2675	2994	3011	2954	2734	2367	2360	2172	1894	1987	2443
NGP Slice Sale	858	660	512	620	679	684	560	534	581	553	531	556	657	736	618
GPU Slice Sale	1428	1099	853	1033	1130	1139	933	889	967	920	885	926	1095	1225	1030
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	641	641	634	605	614	631	629	625	616	639	638	652	657	652	633
Intra-Regional Transfers (Out)	197	197	236	291	592	605	602	547	394	361	362	167	227	226	370
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8127	7602	7100	7475	8659	9395	9229	8897	8325	7718	7648	7305	7447	7861	8103
Total Firm Obligations	8558	7999	7377	7712	8783	9534	9368	9031	8473	8083	8075	7682	7855	8310	8373
Hydro Resources															
Regulated Hydro	9383	6991	5217	6424	7151	7272	5829	5498	6001	5650	5309	6149	7409	7918	6545
Independent Hydro	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	130	130	130	130	130	130	130	130	130	129	129	129	129	129	130
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	9951	7557	5718	6940	7586	7639	6135	5825	6406	6214	5955	6991	8286	8499	7072
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	111	111	144	182	249	304	277	234	203	204	173	83	101	132	184
Intra-Regional Transfers (In)	184	184	329	318	364	300	324	312	290	285	285	167	286	159	276
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	355	167	1000	877
Non-Utility Generation	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	1430	1431	1602	1643	1770	1762	1763	1701	1643	1641	1609	750	702	1427	1485
Total Resources	11381	8988	7320	8583	9356	9401	7898	7526	8048	7855	7564	7740	8988	9926	8557
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-321	-253	-206	-242	-264	-265	-223	-212	-227	-221	-213	-218	-253	-280	-241
Total Reserves, Maintenance & Losses	-321	-253	-206	-242	-264	-265	-223	-212	-227	-221	-213	-218	-253	-280	-241
Total Net Resources	11060	8735	7114	8341	9092	9136	7675	7314	7822	7633	7351	7522	8734	9646	8315
Total Firm Surplus/Deficit	2502	736	-263	629	310	-398	-1693	-1717	-652	-449	-724	-161	879	1336	-58

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	123	123	111	108	124	139	140	134	125	113	112	110	111	118	121
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	432	398	277	237	124	139	140	135	148	365	427	378	409	450	271
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2985	2985	2706	2664	3002	3381	3540	3388	3071	2914	2905	2866	2950	3069	3044
GPU 2002 PSC Sale	2057	2057	2197	2303	2687	3007	3026	2966	2745	2378	2371	2182	1903	1996	2454
NGP Slice Sale	860	662	513	622	680	685	562	535	582	554	533	616	722	738	630
GPU Slice Sale	1432	1103	855	1035	1133	1142	935	892	969	923	887	1025	1203	1229	1049
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	714	714	706	677	687	705	703	698	689	711	711	724	722	718	705
Intra-Regional Transfers (Out)	197	197	236	291	592	605	602	547	394	361	362	167	227	226	370
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8245	7718	7214	7592	8781	9525	9368	9026	8450	7842	7770	7579	7727	7976	8252
Total Firm Obligations	8677	8116	7491	7829	8906	9664	9508	9161	8598	8206	8197	7958	8136	8426	8523
Hydro Resources															
Regulated Hydro	9408	7011	5231	6441	7171	7293	5845	5513	6017	5668	5323	6162	7426	7941	6562
Independent Hydro	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	129	129	129	129	129	129	129	129	129	139	139	139	139	139	133
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	9975	7577	5731	6956	7606	7659	6150	5839	6421	6241	5978	7013	8313	8532	7092
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	111	111	144	182	249	304	277	234	203	204	173	83	94	125	183
Intra-Regional Transfers (In)	184	184	329	318	364	300	324	312	290	285	285	167	286	159	276
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Non-Utility Generation	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	1430	1431	1602	1643	1770	1762	1763	1701	1643	1641	1609	1395	1528	1420	1607
Total Resources	11405	9007	7334	8599	9375	9421	7913	7540	8064	7882	7587	8408	9841	9952	8699
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-322	-254	-207	-242	-264	-266	-223	-213	-227	-222	-214	-237	-278	-281	-245
Total Reserves, Maintenance & Losses	-322	-254	-207	-242	-264	-266	-223	-213	-227	-222	-214	-237	-278	-281	-245
Total Net Resources	11083	8753	7127	8357	9111	9155	7690	7328	7837	7659	7373	8171	9563	9672	8454
Total Firm Surplus/Deficit	2406	637	-364	528	205	-509	-1817	-1833	-762	-547	-824	213	1427	1246	-69

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	124	124	112	109	125	140	140	135	126	113	113	111	111	119	122
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	433	399	278	238	125	140	140	136	149	365	428	379	409	451	271
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	3020	3020	2739	2696	3038	3421	3578	3424	3103	2944	2936	2896	2980	3101	3078
GPU 2002 PSC Sale	2065	2065	2205	2313	2696	3019	3039	2978	2756	2387	2381	2191	1911	2004	2463
NGP Slice Sale	862	663	514	623	682	687	563	536	583	555	533	558	660	739	621
GPU Slice Sale	1435	1105	856	1037	1135	1144	937	893	971	925	888	929	1100	1232	1034
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	700	700	692	663	676	695	692	687	678	700	700	710	716	712	694
Intra-Regional Transfers (Out)	197	197	236	291	592	605	602	547	394	361	362	167	227	226	370
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8279	7751	7243	7623	8819	9571	9411	9066	8486	7873	7801	7451	7593	8014	8261
Total Firm Obligations	8711	8150	7520	7860	8944	9711	9551	9201	8635	8238	8229	7829	8002	8464	8532
Hydro Resources															
Regulated Hydro	9429	7029	5244	6456	7188	7311	5859	5527	6032	5683	5334	6173	7441	7962	6577
Independent Hydro	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	139	139	139	139	139	139	139	139	139	138	138	138	138	138	139
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	10006	7604	5754	6981	7633	7687	6174	5862	6446	6255	5988	7023	8326	8551	7114
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	104	104	137	169	239	293	267	223	193	194	168	76	94	125	175
Intra-Regional Transfers (In)	184	184	329	318	364	300	324	312	290	285	285	167	286	159	276
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	355	167	1000	877
Non-Utility Generation	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	1423	1424	1596	1630	1759	1751	1752	1690	1632	1630	1605	743	695	1420	1476
Total Resources	11430	9028	7349	8612	9392	9438	7927	7553	8078	7885	7593	7765	9021	9971	8589
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-322	-255	-207	-243	-265	-266	-224	-213	-228	-222	-214	-219	-254	-281	-242
Total Reserves, Maintenance & Losses	-322	-255	-207	-243	-265	-266	-224	-213	-228	-222	-214	-219	-254	-281	-242
Total Net Resources	11107	8774	7142	8369	9127	9172	7703	7340	7850	7663	7379	7546	8767	9690	8347
Total Firm Surplus/Deficit	2396	624	-378	509	183	-539	-1848	-1862	-785	-576	-850	-283	764	1226	-185

Loads and Resources - Federal System
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2011 - 2012 Operating Year
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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	124	124	112	105	124	136	139	130	122	110	110	107	108	111	119
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	433	399	278	234	124	136	139	131	145	362	425	375	406	443	268
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	3047	3047	2763	2745	3099	3498	3567	3402	3106	2942	2934	2913	3023	3141	3103
GPU 2002 PSC Sale	2072	2072	2213	2352	2754	3086	3087	2940	2800	2426	2419	2229	1948	2030	2494
NGP Slice Sale	863	664	515	624	683	688	563	537	584	556	534	617	724	741	632
GPU Slice Sale	1437	1107	858	1039	1137	1146	938	895	973	927	889	1028	1206	1234	1053
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	692	692	684	656	669	689	686	681	672	693	693	703	708	704	686
Intra-Regional Transfers (Out)	197	197	42	108	363	418	391	347	217	188	190	0.1	53	67	199
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8308	7780	7074	7523	8705	9524	9233	8803	8351	7733	7659	7490	7663	7916	8168
Total Firm Obligations	8741	8179	7353	7757	8829	9660	9372	8933	8495	8095	8083	7864	8069	8359	8437
Hydro Resources															
Regulated Hydro	9445	7042	5253	6467	7201	7324	5870	5536	6043	5695	5343	6181	7451	7978	6589
Independent Hydro	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	138	138	138	138	138	138	138	138	138	135	135	135	135	135	137
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	10021	7616	5761	6991	7644	7698	6183	5871	6455	6265	5994	7028	8334	8565	7123
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	104	104	137	169	239	293	267	223	193	194	168	76	94	125	175
Intra-Regional Transfers (In)	184	184	135	135	135	112	112	112	112	112	112	0	112	0	105
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Non-Utility Generation	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	1423	1424	1402	1448	1530	1564	1541	1491	1455	1457	1432	1221	1354	1261	1428
Total Resources	11444	9040	7163	8438	9174	9262	7724	7362	7910	7722	7426	8249	9688	9827	8551
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-323	-255	-202	-238	-259	-261	-218	-208	-223	-218	-209	-233	-273	-277	-241
Total Reserves, Maintenance & Losses	-323	-255	-202	-238	-259	-261	-218	-208	-223	-218	-209	-233	-273	-277	-241
Total Net Resources	11121	8785	6961	8200	8915	9001	7507	7154	7687	7504	7217	8017	9415	9550	8310
Total Firm Surplus/Deficit	2380	606	-392	443	86	-659	-1865	-1779	-808	-591	-867	152	1346	1190	-127

**Loads and Resources - Federal System
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	114	114	105	106	125	137	139	133	122	110	110	107	108	111	118
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	423	389	271	235	125	137	139	134	145	362	425	375	406	443	268
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	3092	3092	2790	2761	3118	3518	3603	3492	3138	2972	2964	2942	3052	3172	3137
GPU 2002 PSC Sale	2092	2092	2232	2356	2760	3092	3094	3048	2806	2432	2425	2235	1954	2035	2511
NGP Slice Sale	864	666	516	625	684	689	565	538	585	558	535	559	662	742	623
GPU Slice Sale	1440	1109	859	1041	1139	1148	940	896	975	929	891	931	1103	1236	1038
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	684	684	676	647	662	682	679	674	664	685	685	694	700	696	679
Intra-Regional Transfers (Out)	13	13	42	108	363	418	391	347	217	188	190	0.1	53	67	184
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8184	7655	7115	7538	8725	9547	9272	8996	8384	7764	7690	7362	7524	7949	8172
Total Firm Obligations	8607	8044	7386	7774	8850	9684	9411	9130	8529	8126	8115	7737	7930	8393	8439
Hydro Resources															
Regulated Hydro	9465	7058	5265	6481	7216	7340	5883	5549	6056	5710	5354	6191	7465	7997	6603
Independent Hydro	438	436	371	386	306	237	176	197	275	435	516	713	748	452	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	135	135	135	135	135	135	135	135	135	134	134	134	134	134	135
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	10038	7630	5771	7003	7657	7712	6195	5881	6467	6278	6003	7037	8346	8583	7136
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	104	104	137	169	239	293	267	223	193	194	168	76	94	125	175
Intra-Regional Transfers (In)	0	0	135	135	135	112	112	112	112	112	112	0	112	0	90
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	355	167	1000	877
Non-Utility Generation	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	1240	1240	1402	1448	1530	1564	1541	1491	1455	1457	1432	576	521	1261	1289
Total Resources	11278	8869	7173	8450	9188	9276	7736	7372	7922	7735	7435	7613	8867	9844	8425
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-318	-250	-202	-238	-259	-262	-218	-208	-223	-218	-210	-215	-250	-278	-238
Total Reserves, Maintenance & Losses	-318	-250	-202	-238	-259	-262	-218	-208	-223	-218	-210	-215	-250	-278	-238
Total Net Resources	10960	8619	6971	8212	8929	9014	7517	7164	7698	7517	7225	7399	8617	9567	8187
Total Firm Surplus/Deficit	2352	575	-416	438	78	-670	-1894	-1966	-831	-609	-889	-339	687	1174	-252

**Loads and Resources - Federal System
PNW Loads and Resources Study
2013 - 2014 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	114	114	105	107	126	137	139	134	122	110	110	107	108	112	118
USBR 2002 PSC Sale	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	423	389	271	236	126	137	139	135	145	362	425	375	406	444	268
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	3122	3122	2819	2788	3150	3555	3640	3527	3171	3002	2994	2971	3082	3202	3169
GPU 2002 PSC Sale	2098	2098	2238	2363	2767	3099	3102	3056	2813	2439	2432	2241	1960	2041	2518
NGP Slice Sale	866	667	517	626	685	690	565	539	586	559	536	618	726	744	634
GPU Slice Sale	1442	1110	860	1042	1141	1150	942	898	976	930	892	1030	1209	1238	1056
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	677	677	668	640	655	676	673	668	658	678	678	687	693	690	672
Intra-Regional Transfers (Out)	13	13	42	108	363	418	391	347	217	188	190	0.1	18	34	178
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	8216	7686	7143	7567	8761	9588	9312	9034	8420	7796	7721	7547	7688	7948	8227
Total Firm Obligations	8640	8075	7414	7803	8887	9725	9451	9169	8565	8158	8146	7922	8094	8392	8494
Hydro Resources															
Regulated Hydro	9481	7071	5275	6492	7229	7353	5894	5559	6067	5722	5362	6199	7476	8013	6614
Independent Hydro	438	436	371	386	306	237	176	197	275	435	516	713	748	452	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	134	134	134	134	134	134	134	134	134	132	132	132	132	132	133
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	10052	7641	5779	7012	7668	7723	6203	5889	6476	6289	6010	7044	8356	8598	7145
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	104	104	137	169	239	293	267	223	193	194	168	76	94	125	175
Intra-Regional Transfers (In)	0	0	135	135	135	112	112	112	112	112	112	0	112	0	90
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Non-Utility Generation	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	1240	1240	1402	1448	1530	1564	1541	1491	1455	1457	1432	1221	1354	1261	1413
Total Resources	11292	8880	7180	8460	9198	9287	7744	7380	7931	7746	7442	8265	9709	9859	8558
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-318	-250	-202	-239	-259	-262	-218	-208	-224	-218	-210	-233	-274	-278	-241
Total Reserves, Maintenance & Losses	-318	-250	-202	-239	-259	-262	-218	-208	-224	-218	-210	-233	-274	-278	-241
Total Net Resources	10973	8630	6978	8221	8939	9025	7526	7172	7707	7527	7232	8032	9436	9581	8317
Total Firm Surplus/Deficit	2334	555	-436	418	52	-700	-1925	-1997	-858	-631	-914	109	1341	1189	-178

Section 5
Monthly Regional Tables
Loads & Resources
Average Energy in Megawatts

Loads and Resources - Pacific Northwest Region
PNW Loads and Resources Study
2004 - 2005 Operating Year
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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<u>Firm Regional Loads</u>															
Regional Firm Loads	18969	18934	17728	18102	19903	21973	22416	21525	19939	18780	18827	18302	18819	19534	19666
Exports	1753	1754	1750	1453	1424	1461	1354	1349	1312	1336	1336	1306	1524	1598	1468
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	20722	20688	19478	19555	21327	23434	23770	22874	21251	20116	20164	19608	20342	21132	21135
<u>Non-Firm Regional Loads</u>															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	20722	20688	19478	19555	21327	23434	23770	22874	21251	20116	20164	19608	20342	21132	21135
<u>Hydro Resources</u>															
Regulated Hydro	13476	10457	8449	10398	11587	11753	9953	8614	9793	9578	9358	9811	12989	12472	10605
Independent Hydro	1048	1075	1010	982	902	969	783	797	944	1212	1266	1553	1603	1160	1084
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14524	11532	9459	11380	12489	12722	10736	9411	10738	10790	10624	11364	14592	13633	11688
<u>Other Resources</u>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2206	2206	2269	2191	2137	2119	2252	2002	1841	1594	1541	1266	1372	2131	1946
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	424	424	357	441	789	1004	951	806	656	585	548	329	417	499	603
Large Thermal	6268	6268	6268	6268	6268	6268	6268	6268	6137	5055	5124	4615	5174	6268	5930
Non-Utility Generation	1392	1390	1265	1213	1232	1212	1204	1206	1223	1402	1402	1192	1550	1459	1296
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12511	12510	12385	12342	12665	12841	12923	12525	11475	10869	10848	8613	10737	12571	11870
Total Resources	27036	24042	21844	23722	25154	25563	23659	21936	22213	21659	21472	19977	25329	26204	23559
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-762	-677	-616	-669	-709	-721	-667	-619	-626	-611	-605	-563	-714	-738	-664
Total Reserves, Maintenance & Losses	-792	-702	-624	-678	-713	-721	-667	-619	-631	-618	-613	-583	-728	-787	-676
Total Net Resources	26244	23340	21219	23045	24441	24842	22992	21317	21581	21041	20859	19395	24601	25417	22883
<u>Surplus/Deficits</u>															
Firm Surplus/Deficit	5522	2652	1741	3489	3115	1408	-778	-1557	331	925	696	-213	4258	4285	1748
Total Surplus/Deficit	5522	2652	1741	3489	3115	1408	-778	-1557	331	925	696	-213	4258	4285	1748

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<u>Firm Regional Loads</u>															
Regional Firm Loads	19302	19268	17991	18359	20212	22291	22677	21764	20251	19112	19160	18593	19096	19826	19957
Exports	1530	1530	1529	1234	1223	1238	1236	1232	1225	1248	1248	1219	1369	1404	1307
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	20832	20798	19520	19593	21435	23529	23913	22996	21475	20361	20408	19812	20465	21230	21264
<u>Non-Firm Regional Loads</u>															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	20832	20798	19520	19593	21435	23529	23913	22996	21475	20361	20408	19812	20465	21230	21264
<u>Hydro Resources</u>															
Regulated Hydro	13506	10480	8466	10420	11617	11782	9974	8634	9808	9594	9368	9812	13004	12477	10622
Independent Hydro	1048	1075	1010	983	902	969	783	797	945	1212	1266	1554	1604	1161	1084
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14554	11555	9476	11402	12520	12751	10757	9431	10753	10806	10635	11365	14607	13638	11706
<u>Other Resources</u>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2211	2205	2326	2264	2101	2172	2276	1878	1924	1572	1591	1419	1369	2194	1976
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	466	466	426	462	830	976	926	778	613	568	530	251	415	476	597
Large Thermal	6267	6267	6267	6267	6267	6267	6267	6267	6134	5753	5538	4866	6267	5627	6034
Non-Utility Generation	1392	1391	1266	1213	1232	1213	1198	1199	1216	1397	1396	1187	1544	1454	1292
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12558	12552	12511	12436	12670	12866	12915	12365	11506	11523	11288	8935	11820	11966	11996
Total Resources	27112	24107	21987	23839	25190	25617	23672	21796	22259	22328	21923	20300	26427	25604	23702
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-764	-679	-620	-672	-710	-722	-668	-615	-628	-629	-618	-572	-745	-721	-668
Total Reserves, Maintenance & Losses	-794	-704	-628	-681	-714	-722	-668	-615	-633	-637	-626	-592	-759	-770	-680
Total Net Resources	26318	23403	21358	23158	24476	24895	23005	21182	21626	21692	21297	19708	25668	24834	23022
<u>Surplus/Deficits</u>															
Firm Surplus/Deficit	5486	2605	1838	3564	3041	1366	-909	-1815	150	1331	889	-103	5202	3604	1758
Total Surplus/Deficit	5486	2605	1838	3564	3041	1366	-909	-1815	150	1331	889	-103	5202	3604	1758

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<u>Firm Regional Loads</u>															
Regional Firm Loads	19623	19589	18271	19001	20841	23005	23412	22469	20923	19790	19838	19260	19766	20528	20575
Exports	1384	1384	1386	982	972	988	985	981	974	996	996	967	1117	1192	1077
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	21008	20974	19657	19983	21813	23993	24398	23450	21897	20787	20834	20227	20883	21720	21652
<u>Non-Firm Regional Loads</u>															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	21008	20974	19657	19983	21813	23993	24398	23450	21897	20787	20834	20227	20883	21720	21652
<u>Hydro Resources</u>															
Regulated Hydro	13532	10502	8489	10448	11651	11816	10000	8658	9834	9621	9392	9837	13036	12512	10650
Independent Hydro	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14580	11578	9500	11431	12553	12785	10783	9455	10778	10833	10660	11392	14641	13673	11735
<u>Other Resources</u>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2393	2415	2533	2250	2147	2144	2076	1887	1793	1516	1510	1413	1299	2145	1967
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	377	377	369	401	761	914	806	661	513	465	427	215	348	361	514
Large Thermal	5627	6267	6267	6267	6267	6267	6267	6267	6211	5377	5016	3571	4663	5997	5766
Non-Utility Generation	1368	1368	1259	1252	1258	1235	1226	1231	1249	1409	1408	1382	1583	1493	1329
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	11987	12649	12654	12400	12673	12800	12624	12290	11385	11000	10593	7793	10118	12211	11672
Total Resources	26567	24227	22154	23831	25227	25585	23407	21745	22163	21833	21252	19185	24759	25884	23407
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-748	-683	-624	-672	-711	-721	-660	-613	-625	-615	-599	-540	-698	-729	-660
Total Reserves, Maintenance & Losses	-778	-707	-633	-681	-715	-721	-660	-613	-630	-623	-607	-560	-712	-778	-672
Total Net Resources	25789	23520	21521	23150	24512	24863	22747	21132	21533	21210	20646	18625	24046	25106	22735
<u>Surplus/Deficits</u>															
Firm Surplus/Deficit	4781	2546	1863	3167	2699	870	-1651	-2318	-364	423	-188	-1602	3163	3386	1083
Total Surplus/Deficit	4781	2546	1863	3167	2699	870	-1651	-2318	-364	423	-188	-1602	3163	3386	1083

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<u>Firm Regional Loads</u>															
Regional Firm Loads	20305	20271	18927	19295	21149	23329	23770	22521	21250	20097	20144	19485	20004	20827	20914
Exports	1214	1214	1215	953	943	960	855	851	842	865	857	823	915	910	945
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	21520	21486	20142	20248	22093	24289	24625	23372	22093	20962	21001	20309	20919	21737	21859
<u>Non-Firm Regional Loads</u>															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	21520	21486	20142	20248	22093	24289	24625	23372	22093	20962	21001	20309	20919	21737	21859
<u>Hydro Resources</u>															
Regulated Hydro	13587	10544	8518	10484	11698	11863	10034	8690	9862	9650	9416	9853	13068	12560	10686
Independent Hydro	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14635	11620	9528	11468	12601	12832	10818	9488	10807	10863	10683	11408	14673	13721	11770
<u>Other Resources</u>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2328	2324	2382	2241	2162	2044	2090	1824	1881	1509	1502	1328	1304	2160	1937
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	357	357	277	355	704	889	620	627	543	489	437	243	351	379	484
Large Thermal	6274	6274	6274	6274	6274	6274	6274	6274	6214	5781	5681	4414	5765	6274	6026
Non-Utility Generation	1418	1418	1309	1253	1259	1235	1226	1232	1250	1409	1408	1383	1575	1491	1337
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12599	12595	12468	12352	12639	12681	12458	12201	11506	11420	11260	8579	11219	12519	11880
Total Resources	27234	24215	21996	23820	25240	25513	23276	21689	22313	22283	21943	19987	25892	26240	23650
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-767	-682	-620	-671	-712	-719	-656	-612	-629	-628	-619	-563	-730	-739	-667
Total Reserves, Maintenance & Losses	-797	-707	-629	-680	-715	-719	-656	-612	-634	-636	-626	-583	-744	-788	-679
Total Net Resources	26437	23508	21367	23139	24525	24793	22619	21077	21679	21648	21317	19404	25148	25453	22972
<u>Surplus/Deficits</u>															
Firm Surplus/Deficit	4917	2022	1225	2891	2432	504	-2006	-2295	-414	685	316	-905	4229	3716	1112
Total Surplus/Deficit	4917	2022	1225	2891	2432	504	-2006	-2295	-414	685	316	-905	4229	3716	1112

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<u>Firm Regional Loads</u>															
Regional Firm Loads	20558	20524	19215	19602	21484	23688	24092	23169	21556	20381	20427	19755	20318	21135	21246
Exports	874	874	878	824	810	827	825	820	812	834	834	799	891	887	840
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	21432	21398	20092	20426	22293	24515	24917	23989	22368	21215	21261	20554	21209	22021	22086
<u>Non-Firm Regional Loads</u>															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	21432	21398	20092	20426	22293	24515	24917	23989	22368	21215	21261	20554	21209	22021	22086
<u>Hydro Resources</u>															
Regulated Hydro	13611	10564	8532	10501	11718	11883	10051	8705	9878	9667	9429	9865	13085	12583	10703
Independent Hydro	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14660	11640	9542	11485	12621	12853	10834	9503	10823	10880	10697	11420	14690	13745	11788
<u>Other Resources</u>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2309	2313	2375	2252	2044	2105	2091	1875	1875	1490	1490	1417	1316	2147	1941
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	173	173	157	200	401	472	458	424	377	322	291	109	184	200	288
Large Thermal	6274	6274	6274	6274	6274	6274	6274	6274	6211	5785	5392	3458	5021	6274	5873
Non-Utility Generation	1417	1419	1309	1253	1259	1236	1227	1232	1250	1409	1409	1383	1575	1492	1337
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12395	12401	12341	12209	12218	12326	12299	12049	11331	11238	10814	7579	10320	12328	11535
Total Resources	27055	24040	21884	23694	24839	25179	23133	21552	22155	22118	21511	18999	25010	26073	23323
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-762	-677	-617	-668	-700	-710	-652	-608	-625	-624	-606	-535	-705	-734	-657
Total Reserves, Maintenance & Losses	-792	-702	-625	-677	-704	-710	-652	-608	-630	-631	-614	-555	-719	-783	-669
Total Net Resources	26263	23338	21258	23017	24135	24469	22480	20944	21525	21487	20897	18443	24291	25290	22654
<u>Surplus/Deficits</u>															
Firm Surplus/Deficit	4831	1941	1166	2591	1842	-46	-2436	-3045	-843	273	-364	-2111	3082	3268	567
Total Surplus/Deficit	4831	1941	1166	2591	1842	-46	-2436	-3045	-843	273	-364	-2111	3082	3268	567

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<u>Firm Regional Loads</u>															
Regional Firm Loads	20860	20826	19498	19872	21828	24020	24433	23481	21880	20676	20722	20051	20625	21443	21556
Exports	937	937	941	887	883	900	898	893	885	907	906	872	957	952	909
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	21797	21763	20439	20759	22711	24920	25331	24374	22765	21582	21629	20922	21581	22395	22465
<u>Non-Firm Regional Loads</u>															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	21797	21763	20439	20759	22711	24920	25331	24374	22765	21582	21629	20922	21581	22395	22465
<u>Hydro Resources</u>															
Regulated Hydro	13636	10584	8546	10519	11738	11904	10067	8720	9895	9685	9443	9878	13102	12607	10721
Independent Hydro	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14685	11660	9556	11502	12641	12873	10850	9518	10839	10897	10710	11433	14707	13768	11805
<u>Other Resources</u>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2264	2307	2392	2125	2105	2093	2083	1822	1785	1490	1484	1429	1320	2126	1921
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	173	173	157	200	401	472	458	424	377	322	291	109	130	149	280
Large Thermal	6268	6268	6268	6268	6268	6268	6268	6268	6137	4974	5066	4956	5419	6268	5973
Non-Utility Generation	1417	1418	1308	1252	1259	1236	1227	1232	1250	1410	1409	1383	1583	1493	1338
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12344	12388	12350	12075	12273	12308	12284	11989	11168	10428	10482	9089	10676	12250	11607
Total Resources	27029	24047	21907	23576	24913	25181	23134	21507	22008	21325	21192	20522	25383	26018	23412
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-761	-677	-618	-665	-702	-710	-652	-607	-620	-601	-597	-578	-715	-732	-660
Total Reserves, Maintenance & Losses	-791	-702	-626	-674	-706	-710	-652	-607	-626	-609	-605	-598	-730	-782	-672
Total Net Resources	26237	23345	21281	22903	24207	24470	22482	20901	21382	20717	20587	19923	24653	25236	22740
<u>Surplus/Deficits</u>															
Firm Surplus/Deficit	4440	1582	842	2144	1496	-450	-2850	-3474	-1383	-866	-1041	-999	3072	2841	275
Total Surplus/Deficit	4440	1582	842	2144	1496	-450	-2850	-3474	-1383	-866	-1041	-999	3072	2841	275

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<u>Firm Regional Loads</u>															
Regional Firm Loads	21186	21152	19790	20154	22150	24367	24787	23793	22172	20952	20998	20343	20923	21741	21864
Exports	924	924	927	873	872	890	888	883	874	895	895	858	950	946	898
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	22110	22076	20717	21027	23022	25257	25675	24675	23045	21847	21893	21200	21873	22687	22762
<u>Non-Firm Regional Loads</u>															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	22110	22076	20717	21027	23022	25257	25675	24675	23045	21847	21893	21200	21873	22687	22762
<u>Hydro Resources</u>															
Regulated Hydro	13658	10601	8558	10534	11756	11922	10081	8733	9909	9700	9455	9889	13117	12628	10736
Independent Hydro	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14707	11677	9569	11517	12658	12891	10864	9531	10854	10913	10722	11444	14721	13789	11821
<u>Other Resources</u>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2302	2312	2223	2189	2082	2148	2113	1871	1865	1493	1515	1261	1289	2115	1914
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	122	122	150	188	306	377	364	329	282	227	202	102	130	149	226
Large Thermal	6268	6268	6268	6268	6268	6268	6268	6268	6191	4827	4854	4348	5015	6268	5878
Non-Utility Generation	1418	1418	1308	1253	1266	1241	1233	1240	1258	1416	1416	1384	1576	1493	1340
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12331	12342	12175	12127	12161	12273	12226	11951	11214	10196	10220	8306	10235	12239	11454
Total Resources	27038	24019	21744	23643	24820	25164	23091	21482	22068	21109	20942	19749	24956	26028	23275
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-762	-677	-613	-666	-700	-710	-651	-606	-622	-595	-590	-556	-703	-733	-656
Total Reserves, Maintenance & Losses	-792	-701	-622	-675	-704	-710	-651	-606	-627	-602	-598	-576	-718	-782	-668
Total Net Resources	26246	23318	21122	22968	24116	24455	22440	20877	21440	20507	20344	19173	24238	25246	22607
<u>Surplus/Deficits</u>															
Firm Surplus/Deficit	4136	1242	406	1941	1094	-802	-3235	-3799	-1605	-1340	-1549	-2027	2365	2559	-155
Total Surplus/Deficit	4136	1242	406	1941	1094	-802	-3235	-3799	-1605	-1340	-1549	-2027	2365	2559	-155

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Firm Regional Loads															
Regional Firm Loads	21510	21476	20074	20560	22527	24826	25104	23843	22221	21235	21281	20650	21245	22117	22160
Exports	916	916	919	865	865	884	881	877	867	888	888	850	934	930	890
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	22425	22391	20993	21426	23392	25710	25985	24719	23088	22123	22169	21499	22178	23046	23049
Non-Firm Regional Loads															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	22425	22391	20993	21426	23392	25710	25985	24719	23088	22123	22169	21499	22178	23046	23049
Hydro Resources															
Regulated Hydro	13674	10614	8568	10545	11768	11934	10092	8743	9920	9712	9463	9897	13127	12644	10748
Independent Hydro	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14722	11690	9578	11528	12671	12904	10875	9541	10865	10925	10730	11452	14732	13805	11832
Other Resources															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2260	2184	2254	2199	2164	2146	2121	1875	1863	1520	1516	1219	1339	2161	1923
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	122	122	150	188	306	377	364	329	282	227	202	102	130	149	226
Large Thermal	6267	6267	6267	6267	6267	6267	6267	6267	6207	5729	5681	4262	5801	6267	6009
Non-Utility Generation	1418	1418	1309	1253	1266	1241	1234	1240	1256	1416	1416	1384	1576	1493	1340
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12289	12213	12207	12136	12244	12272	12234	11955	11228	11124	11048	8178	11071	12285	11596
Total Resources	27011	23903	21785	23664	24914	25176	23109	21496	22093	22049	21778	19630	25803	26090	23428
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-761	-673	-614	-667	-702	-710	-652	-606	-623	-622	-614	-553	-727	-734	-660
Total Reserves, Maintenance & Losses	-791	-698	-623	-676	-706	-710	-652	-606	-628	-629	-622	-573	-742	-784	-672
Total Net Resources	26220	23205	21162	22988	24208	24466	22458	20890	21465	21420	21156	19057	25062	25306	22755
Surplus/Deficits															
Firm Surplus/Deficit	3795	814	169	1562	816	-1245	-3527	-3829	-1623	-703	-1013	-2443	2883	2260	-294
Total Surplus/Deficit	3795	814	169	1562	816	-1245	-3527	-3829	-1623	-703	-1013	-2443	2883	2260	-294

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Regional Loads															
Regional Firm Loads	21904	21870	20420	20832	22771	25136	25490	24548	22808	21554	21600	20953	21551	22466	22537
Exports	898	898	901	837	837	857	854	849	839	860	860	821	905	902	864
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	22802	22768	21321	21669	23608	25993	26345	25398	23648	22415	22461	21774	22457	23368	23400
Non-Firm Regional Loads															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	22802	22768	21321	21669	23608	25993	26345	25398	23648	22415	22461	21774	22457	23368	23400
Hydro Resources															
Regulated Hydro	13693	10630	8580	10559	11784	11951	10105	8755	9934	9727	9474	9908	13141	12663	10762
Independent Hydro	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14742	11706	9590	11542	12687	12920	10888	9553	10879	10940	10741	11463	14746	13824	11846
Other Resources															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2175	2236	2281	2195	2108	2123	2125	1867	1893	1522	1486	1338	1344	2033	1918
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	122	122	150	188	297	369	355	320	282	227	202	102	130	149	223
Large Thermal	6274	6274	6274	6274	6274	6274	6274	6274	6085	5252	5325	4241	5113	6274	5910
Non-Utility Generation	1419	1419	1309	1253	1266	1243	1234	1240	1257	1416	1416	1383	1583	1494	1341
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12211	12272	12240	12139	12186	12248	12236	11945	11135	10650	10661	8275	10395	12164	11488
Total Resources	26953	23979	21831	23681	24872	25168	23125	21498	22014	21590	21402	19738	25141	25989	23335
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-759	-676	-615	-668	-701	-710	-652	-606	-621	-609	-603	-556	-709	-731	-658
Total Reserves, Maintenance & Losses	-789	-700	-624	-677	-705	-710	-652	-606	-626	-616	-611	-576	-723	-781	-670
Total Net Resources	26164	23279	21207	23005	24167	24458	22473	20892	21389	20974	20791	19162	24418	25208	22665
Surplus/Deficits															
Firm Surplus/Deficit	3362	511	-115	1336	559	-1535	-3872	-4505	-2259	-1441	-1669	-2613	1961	1840	-735
Total Surplus/Deficit	3362	511	-115	1336	559	-1535	-3872	-4505	-2259	-1441	-1669	-2613	1961	1840	-735

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Firm Regional Loads															
Regional Firm Loads	22223	22189	20729	21143	23102	25521	25850	24877	23126	21861	21906	21252	21882	22620	22849
Exports	871	871	873	829	831	851	849	843	833	854	853	814	868	865	848
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	23094	23060	21602	21973	23932	26373	26699	25720	23959	22714	22760	22066	22750	23485	23698
Non-Firm Regional Loads															
Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non-Firm Regional Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loads	23094	23060	21602	21973	23932	26373	26699	25720	23959	22714	22760	22066	22750	23485	23698
Hydro Resources															
Regulated Hydro	13709	10643	8589	10570	11796	11964	10116	8765	9945	9739	9482	9915	13151	12679	10773
Independent Hydro	1049	1076	1011	983	903	970	783	798	945	1213	1268	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	14758	11720	9600	11553	12699	12933	10899	9563	10890	10952	10750	11471	14756	13841	11858
Other Resources															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2211	2211	2317	2176	2118	2122	2129	1900	1900	1496	1539	1348	1228	2091	1922
Renewables	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80
Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999
Imports	122	122	150	188	297	369	355	320	282	227	202	102	130	149	223
Large Thermal	6274	6274	6274	6274	6274	6274	6274	6274	6211	5733	5681	4600	5854	6274	6047
Non-Utility Generation	1419	1419	1309	1254	1267	1243	1235	1241	1258	1417	1416	1383	1576	1493	1341
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12248	12248	12277	12122	12196	12247	12242	11979	11270	11106	11071	8644	11014	12222	11629
Total Resources	27006	23968	21877	23675	24895	25180	23141	21542	22160	22058	21821	20115	25770	26063	23487
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-761	-675	-617	-667	-702	-710	-653	-607	-625	-622	-615	-567	-726	-734	-662
Total Reserves, Maintenance & Losses	-791	-700	-625	-676	-706	-710	-653	-607	-630	-629	-623	-587	-741	-783	-674
Total Net Resources	26215	23268	21252	22999	24190	24470	22488	20934	21530	21429	21198	19528	25030	25280	22813
Surplus/Deficits															
Firm Surplus/Deficit	3121	208	-350	1026	257	-1903	-4211	-4786	-2429	-1286	-1562	-2538	2280	1795	-885
Total Surplus/Deficit	3121	208	-350	1026	257	-1903	-4211	-4786	-2429	-1286	-1562	-2538	2280	1795	-885

Section 6
Monthly Federal 50 Water Year
Surplus/Deficit
Average Energy in Megawatts

Federal Surplus/Deficit by Water Year PNW Loads and Resources Study 2004 - 2005 Operating Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Federal Surplus/Deficit	2657	642	330	1151	1012	415	977	-1098	167	-183	-901	-768	1378	2398	589
1930 Federal Surplus/Deficit	1321	418	216	1336	1160	388	-1086	-137	213	187	-475	-821	1265	2609	489
1931 Federal Surplus/Deficit	1777	674	342	1285	1128	429	-1039	-1078	-7.4	711	-1115	-319	762	1702	352
1932 Federal Surplus/Deficit	1644	209	363	1190	1017	355	-1006	-1230	1396	3587	4900	4596	4073	3527	1621
1933 Federal Surplus/Deficit	2939	2021	557	1336	771	1278	3431	2586	164	1034	1505	2948	6351	5862	2419
1934 Federal Surplus/Deficit	2470	2755	1137	2435	2504	5567	6560	4883	3411	6258	5164	4015	611	3150	3550
1935 Federal Surplus/Deficit	1054	-289	163	1090	736	829	2892	3237	-350	855	2201	2246	2957	3501	1601
1936 Federal Surplus/Deficit	2465	687	342	1277	1036	393	-353	-1064	394	70	1924	5738	2579	2479	1283
1937 Federal Surplus/Deficit	2221	450	254	1326	1084	375	-830	-895	159	34	-626	-339	767	1969	409
1938 Federal Surplus/Deficit	1825	61	241	1488	953	471	3700	581	2416	2951	2689	4781	3340	3094	2069
1939 Federal Surplus/Deficit	1582	290	645	1398	1040	377	1344	-788	735	902	1288	3475	1275	2592	1177
1940 Federal Surplus/Deficit	2395	569	259	1509	976	585	723	14	2637	1830	2000	2159	2018	1973	1354
1941 Federal Surplus/Deficit	1488	140	209	1299	860	978	1287	-1036	260	-343	-762	250	1596	1345	609
1942 Federal Surplus/Deficit	1267	286	588	1250	748	2568	3820	-417	-325	387	738	1890	4526	4043	1669
1943 Federal Surplus/Deficit	2907	1972	548	1299	874	811	3080	2312	3077	5928	4836	4716	4335	4173	2754
1944 Federal Surplus/Deficit	2709	1885	552	1405	1075	359	1349	-1021	-252	-126	-1076	-801	527	1187	506
1945 Federal Surplus/Deficit	1357	-218	325	1121	1039	357	-960	-604	35	-58	-786	2152	3591	2522	810
1946 Federal Surplus/Deficit	1535	1049	138	1426	1048	429	1793	1706	3157	3407	3927	5062	3706	3988	2284
1947 Federal Surplus/Deficit	3000	1669	770	1288	1024	3406	4052	3215	3423	1795	2803	4228	3388	3621	2754
1948 Federal Surplus/Deficit	3020	1099	603	3443	2008	2277	3947	794	2017	2035	3743	6208	7053	4399	3141
1949 Federal Surplus/Deficit	2604	3055	1482	1574	941	1046	1900	639	4241	2100	4639	5117	3232	1872	2354
1950 Federal Surplus/Deficit	1323	-177	-55	1317	861	145	2153	3629	4981	4482	3836	3979	6149	4536	2702
1951 Federal Surplus/Deficit	2230	2512	930	2297	2512	4350	5429	5376	3662	4336	4364	5108	2608	4445	3620
1952 Federal Surplus/Deficit	2702	2617	1221	2909	1192	2700	3720	2133	2436	4569	4561	6113	3538	2863	3004
1953 Federal Surplus/Deficit	2721	956	483	1278	1127	384	1165	3239	637	-70	1168	3666	5931	4615	2076
1954 Federal Surplus/Deficit	2844	1727	802	1551	1110	1743	2759	3476	2012	3758	2641	4444	5391	5316	2841
1955 Federal Surplus/Deficit	3820	2816	3374	2135	1622	1864	786	-704	-193	876	-3.5	1632	6706	6368	2279
1956 Federal Surplus/Deficit	2616	2986	694	2010	1910	4028	5969	2643	4382	4516	6023	6159	6704	4776	3946
1957 Federal Surplus/Deficit	2974	2228	746	1676	911	1912	2463	-63	1649	5112	2924	5703	6416	3062	2591
1958 Federal Surplus/Deficit	1882	517	394	1416	1038	524	1983	2193	2222	1110	3541	5079	4877	2634	2157
1959 Federal Surplus/Deficit	1912	788	490	1304	1529	2665	5452	3802	2257	3254	2061	3340	5357	5142	2946
1960 Federal Surplus/Deficit	2713	2049	3161	4077	2991	3525	3693	828	2075	6348	3863	2895	3725	3648	3175
1961 Federal Surplus/Deficit	3007	663	553	1453	1246	1011	2511	2862	2910	3294	2899	3593	6267	3197	2545
1962 Federal Surplus/Deficit	2082	1149	203	1372	1023	267	2396	-119	207	4709	4557	3050	2868	3871	1782
1963 Federal Surplus/Deficit	2528	1570	437	1874	1669	2637	2707	1431	1342	959	825	3890	3496	3590	2168
1964 Federal Surplus/Deficit	3236	1785	874	1198	1080	637	2262	637	160	2057	1708	2659	6391	5890	2182
1965 Federal Surplus/Deficit	2749	2459	1472	2259	1200	4269	6491	4995	3925	3047	4473	4892	4300	3168	3611
1966 Federal Surplus/Deficit	2815	2241	832	1805	1250	1841	3368	362	461	3727	1544	2973	2325	3954	2028
1967 Federal Surplus/Deficit	3042	1407	299	1269	1019	978	3775	4394	1391	2659	1050	1735	5937	5223	2508
1968 Federal Surplus/Deficit	2808	2129	932	1621	1142	1675	3273	2488	2200	-353	926	1884	4093	4886	2246
1969 Federal Surplus/Deficit	2969	2271	1865	2383	2047	2516	5311	3935	2692	5510	4599	5952	3951	3831	3513
1970 Federal Surplus/Deficit	2918	1003	478	1391	1142	803	2909	2426	664	99	1714	2917	4480	1990	1839
1971 Federal Surplus/Deficit	1735	670	216	1398	1246	679	4544	5965	3437	3781	4082	6315	6170	5107	3351
1972 Federal Surplus/Deficit	2927	3140	1099	1476	1159	1821	4345	5575	5994	5996	2550	6016	6606	5511	3909
1973 Federal Surplus/Deficit	3471	2834	1550	1641	1026	2053	3730	-746	98	-499	-853	114	1538	2322	1317
1974 Federal Surplus/Deficit	1623	-36	112	1030	732	2866	6978	5915	4742	5313	5517	5440	6733	6753	3959
1975 Federal Surplus/Deficit	2993	3110	1494	1162	1048	911	3148	1985	3454	2115	1979	3792	4926	5796	2735
1976 Federal Surplus/Deficit	1829	1111	873	2048	2323	5119	5336	3817	2852	5255	3637	5526	3009	5333	3513
1977 Federal Surplus/Deficit	4375	4035	3996	1792	1053	538	1373	-1115	-581	-627	-1369	-51	169	1155	961
1978 Federal Surplus/Deficit	1661	-224	83	855	839	733	2493	908	3307	2112	2459	3307	2675	3983	1849
-Ranked Averages-															
Top Ten Percent	2429	2212	862	1814	1503	3467	5842	4901	4541	4642	4585	5523	5390	4931	3809
Middle Eighty Percent	2448	1366	842	1634	1228	1490	2738	1565	1734	2424	2379	3602	4026	3761	2244
Bottom Ten Percent	2137	814	339	1300	1092	393	-126	-846	56	125	-839	-610	940	1973	469

Federal Surplus/Deficit by Water Year PNW Loads and Resources Study 2005 - 2006 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Federal Surplus/Deficit	3660	1661	454	1137	981	397	556	-1497	-291	-566	-898	-114	2107	2113	648
1930 Federal Surplus/Deficit	2315	1438	341	1320	1132	372	-1512	-535	-243	-197	-478	-166	2002	2332	548
1931 Federal Surplus/Deficit	2775	1696	466	1267	1100	416	-1465	-1476	-464	329	-1113	340	1506	1430	414
1932 Federal Surplus/Deficit	2642	1230	489	1174	987	337	-1433	-1628	936	3212	4925	5266	4817	3248	1683
1933 Federal Surplus/Deficit	3941	3046	682	1323	740	1262	3023	2207	-289	665	1516	3621	7092	5597	2487
1934 Federal Surplus/Deficit	3473	3787	1267	2429	2473	5560	6159	4509	2966	5888	5182	4698	1349	2876	3621
1935 Federal Surplus/Deficit	2051	732	291	1074	704	812	2483	2860	-798	474	2210	2907	3693	3227	1666
1936 Federal Surplus/Deficit	3469	1710	469	1264	1008	380	-774	-1461	-64	-309	1921	6408	3326	2202	1346
1937 Federal Surplus/Deficit	3219	1470	377	1311	1057	361	-1254	-1291	-296	-347	-624	311	1497	1690	468
1938 Federal Surplus/Deficit	2823	1084	366	1474	926	454	3289	192	1962	2575	2697	5455	4074	2814	2133
1939 Federal Surplus/Deficit	2579	1306	771	1384	1009	358	930	-1184	276	519	1288	4138	2012	2313	1238
1940 Federal Surplus/Deficit	3396	1589	383	1497	949	569	301	-386	2184	1444	2014	2815	2754	1695	1415
1941 Federal Surplus/Deficit	2484	1161	333	1284	831	963	862	-1435	-197	-719	-748	910	2328	1059	669
1942 Federal Surplus/Deficit	2260	1305	710	1233	716	2547	3417	-815	-783	1.2	739	2549	5264	3769	1730
1943 Federal Surplus/Deficit	3912	2995	672	1285	842	790	2663	1911	2619	5549	4841	5391	5067	3889	2815
1944 Federal Surplus/Deficit	3708	2911	673	1390	1043	337	928	-1421	-709	-511	-1071	-142	1257	899	564
1945 Federal Surplus/Deficit	2350	800	449	1104	1008	340	-1388	-1006	-424	-443	-787	2807	4323	2243	868
1946 Federal Surplus/Deficit	2527	2069	261	1409	1017	408	1368	1311	2703	3033	3936	5740	4454	3710	2347
1947 Federal Surplus/Deficit	4004	2693	894	1272	991	3377	3647	2820	2973	1424	2817	4895	4135	3343	2818
1948 Federal Surplus/Deficit	4020	2118	727	3437	1974	2262	3533	394	1568	1661	3755	6879	7798	4130	3207
1949 Federal Surplus/Deficit	3605	4087	1608	1561	910	1026	1485	239	3787	1720	4653	5782	3974	1589	2416
1950 Federal Surplus/Deficit	2317	840	68	1301	830	127	1740	3237	4532	4101	3850	4652	6892	4256	2766
1951 Federal Surplus/Deficit	3228	3540	1054	2285	2476	4334	5025	4992	3209	3958	4380	5785	3344	4171	3686
1952 Federal Surplus/Deficit	3704	3645	1348	2901	1162	2679	3308	1740	1980	4185	4565	6783	4275	2581	3067
1953 Federal Surplus/Deficit	3722	1973	606	1262	1097	367	734	2849	185	-442	1176	4337	6667	4335	2138
1954 Federal Surplus/Deficit	3846	2751	927	1539	1081	1724	2345	3090	1562	3384	2645	5121	6145	5046	2908
1955 Federal Surplus/Deficit	4828	3846	3512	2126	1592	1851	365	-1102	-648	495	7.9	2296	7458	6105	2345
1956 Federal Surplus/Deficit	3618	4017	819	2000	1876	4009	5564	2253	3925	4145	6036	6831	7451	4502	4011
1957 Federal Surplus/Deficit	3976	3255	870	1663	879	1891	2048	-464	1193	4731	2937	6374	7163	2778	2654
1958 Federal Surplus/Deficit	2877	1534	517	1401	1008	503	1568	1795	1775	731	3548	5742	5626	2348	2219
1959 Federal Surplus/Deficit	2907	1808	613	1290	1495	2645	5044	3423	1803	2885	2077	4017	6104	4868	3012
1960 Federal Surplus/Deficit	3716	3076	3296	4069	2958	3514	3291	437	1619	5985	3888	3569	4466	3371	3244
1961 Federal Surplus/Deficit	4010	1681	679	1441	1216	993	2100	2475	2463	2927	2915	4275	7024	2922	2613
1962 Federal Surplus/Deficit	3081	2172	326	1359	991	248	1982	-513	-251	4329	4579	3723	3607	3593	1846
1963 Federal Surplus/Deficit	3531	2592	561	1859	1637	2619	2298	1035	884	581	837	4549	4230	3313	2230
1964 Federal Surplus/Deficit	4240	2807	1000	1184	1048	618	1849	246	-296	1670	1718	3324	7130	5624	2245
1965 Federal Surplus/Deficit	3751	3487	1598	2249	1172	4239	6082	4606	3471	2669	4481	5560	5027	2879	3673
1966 Federal Surplus/Deficit	3816	3264	955	1792	1220	1818	2956	-25	2.8	3356	1556	3640	3065	3682	2092
1967 Federal Surplus/Deficit	4048	2427	423	1256	988	960	3365	4013	943	2294	1064	2400	6681	4947	2574
1968 Federal Surplus/Deficit	3812	3157	1058	1607	1111	1654	2859	2098	1749	-736	939	2542	4836	4609	2309
1969 Federal Surplus/Deficit	3972	3298	1994	2371	2014	2499	4900	3551	2233	5137	4616	6627	4702	3552	3580
1970 Federal Surplus/Deficit	3917	2024	602	1379	1112	783	2484	2032	211	-274	1736	3579	5208	1705	1900
1971 Federal Surplus/Deficit	2731	1687	335	1381	1213	655	4124	5578	2980	3401	4096	6984	6907	4831	3412
1972 Federal Surplus/Deficit	3930	4171	1223	1462	1126	1798	3928	5189	5544	5631	2569	6686	7347	5246	3975
1973 Federal Surplus/Deficit	4477	3865	1676	1628	993	2031	3314	-1145	-360	-877	-841	770	2276	2042	1378
1974 Federal Surplus/Deficit	2621	983	236	1011	696	2840	6570	5533	4290	4937	5529	6107	7474	6486	4023
1975 Federal Surplus/Deficit	3996	4141	1621	1146	1016	889	2734	1596	2999	1742	1990	4459	5656	5520	2798
1976 Federal Surplus/Deficit	2827	2131	997	2034	2287	5100	4927	3432	2397	4878	3650	6194	3741	5063	3576
1977 Federal Surplus/Deficit	5386	5068	4136	1780	1022	518	953	-1514	-1037	-1008	-1360	614	906	876	1025
1978 Federal Surplus/Deficit	2658	797	208	838	807	705	2070	506	2856	1744	2476	3978	3407	3702	1909
-Ranked Averages-															
Top Ten Percent	3430	3240	986	1802	1469	3444	5434	4514	4088	4268	4599	6194	6129	4657	3874
Middle Eighty Percent	3448	2389	967	1620	1197	1471	2323	1172	1280	2048	2391	4270	4766	3484	2307
Bottom Ten Percent	3135	1835	462	1285	1063	377	-549	-1244	-401	-259	-837	46	1674	1693	528

Federal Surplus/Deficit by Water Year PNW Loads and Resources Study 2006 - 2007 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Federal Surplus/Deficit	3401	1388	192	795	578	-2.1	88	-1961	-690	-727	-1054	-631	1424	1673	247
1930 Federal Surplus/Deficit	2045	1165	78	974	733	-25	-1987	-993	-640	-356	-635	-685	1320	1895	148
1931 Federal Surplus/Deficit	2508	1424	203	921	700	18	-1939	-1938	-862	171	-1272	-177	825	994	13
1932 Federal Surplus/Deficit	2376	960	226	829	586	-65	-1909	-2091	541	3064	4790	4764	4145	2815	1286
1933 Federal Surplus/Deficit	3676	2774	420	981	340	863	2566	1763	-683	514	1366	3112	6427	5174	2094
1934 Federal Surplus/Deficit	3209	3522	1011	2092	2072	5178	5715	4073	2584	5750	5050	4201	661	2440	3233
1935 Federal Surplus/Deficit	1785	462	31	729	303	411	2024	2418	-1190	319	2064	2396	3013	2796	1270
1936 Federal Surplus/Deficit	3207	1440	207	921	608	-18	-1243	-1924	-461	-470	1775	5908	2649	1766	949
1937 Federal Surplus/Deficit	2951	1197	114	967	657	-37	-1728	-1752	-693	-507	-781	-211	809	1252	67
1938 Federal Surplus/Deficit	2556	814	104	1130	527	56	2830	-259	1573	2424	2552	4955	3395	2381	1739
1939 Federal Surplus/Deficit	2309	1027	510	1042	607	-42	469	-1642	-119	364	1139	3632	1328	1876	840
1940 Federal Surplus/Deficit	3132	1318	121	1155	550	170	-168	-845	1798	1289	1876	2304	2071	1257	1018
1941 Federal Surplus/Deficit	2215	891	70	942	432	566	390	-1896	-595	-874	-896	397	1644	618	270
1942 Federal Surplus/Deficit	1989	1031	447	889	315	2148	2967	-1273	-1182	-156	590	2038	4591	3340	1334
1943 Federal Surplus/Deficit	3649	2723	410	943	440	389	2206	1459	2233	5407	4704	4892	4392	3458	2422
1944 Federal Surplus/Deficit	3439	2638	410	1048	640	-62	460	-1885	-1110	-673	-1224	-657	571	456	163
1945 Federal Surplus/Deficit	2079	526	186	759	606	-60	-1864	-1468	-823	-604	-947	2299	3647	1810	468
1946 Federal Surplus/Deficit	2254	1793	-2.1	1064	616	11	901	859	2319	2882	3795	5242	3780	3278	1953
1947 Federal Surplus/Deficit	3740	2422	634	930	590	2978	3198	2375	2588	1272	2672	4392	3463	2911	2426
1948 Federal Surplus/Deficit	3752	1841	465	3105	1573	1869	3079	-61	1181	1507	3612	6385	7137	3707	2816
1949 Federal Surplus/Deficit	3338	3819	1349	1221	509	626	1023	-220	3405	1569	4514	5280	3295	1150	2021
1950 Federal Surplus/Deficit	2045	563	-196	957	429	-271	1280	2788	4154	3955	3710	4149	6227	3828	2374
1951 Federal Surplus/Deficit	2957	3270	792	1948	2074	3946	4578	4558	2826	3811	4242	5287	2664	3743	3296
1952 Federal Surplus/Deficit	3437	3375	1089	2566	762	2284	2852	1294	1589	4038	4426	6289	3599	2149	2676
1953 Federal Surplus/Deficit	3455	1694	343	919	696	-31	261	2407	-205	-598	1025	3830	5998	3907	1743
1954 Federal Surplus/Deficit	3580	2477	666	1199	680	1325	1887	2648	1173	3234	2499	4621	5477	4621	2516
1955 Federal Surplus/Deficit	4567	3578	3263	1788	1192	1455	-103	-1563	-1047	341	-135	1780	6794	5685	1952
1956 Federal Surplus/Deficit	3353	3750	558	1661	1473	3619	5118	1810	3541	4001	5904	6336	6788	4075	3624
1957 Federal Surplus/Deficit	3710	2983	609	1323	478	1493	1588	-923	804	4584	2795	5881	6498	2342	2261
1958 Federal Surplus/Deficit	2606	1255	254	1059	607	102	1107	1344	1390	576	3404	5241	4959	1910	1824
1959 Federal Surplus/Deficit	2636	1533	351	949	1094	2249	4595	2985	1412	2737	1932	3514	5438	4438	2620
1960 Federal Surplus/Deficit	3452	2805	3046	3738	2559	3124	2842	-14	1230	5849	3749	3061	3790	2939	2853
1961 Federal Surplus/Deficit	3746	1405	419	1101	816	593	1640	2031	2078	2777	2766	3774	6359	2487	2220
1962 Federal Surplus/Deficit	2815	1901	63	1017	589	-152	1521	-967	-649	4180	4445	3216	2928	3162	1450
1963 Federal Surplus/Deficit	3266	2319	298	1520	1236	2224	1842	588	487	428	692	4041	3557	2882	1836
1964 Federal Surplus/Deficit	3975	2532	740	842	646	217	1388	-206	-694	1514	1568	2815	6465	5203	1851
1965 Federal Surplus/Deficit	3484	3215	1340	1913	773	3843	5638	4170	3086	2517	4343	5061	4353	2445	3283
1966 Federal Surplus/Deficit	3548	2988	696	1452	821	1418	2498	-474	-394	3213	1411	3134	2386	3252	1697
1967 Federal Surplus/Deficit	3787	2154	161	913	586	560	2909	3575	553	2145	913	1890	6016	4519	2182
1968 Federal Surplus/Deficit	3548	2887	798	1267	711	1255	2402	1654	1362	-895	792	2027	4166	4178	1915
1969 Federal Surplus/Deficit	3709	3027	1739	2035	1613	2105	4451	3114	1844	4994	4480	6132	4032	3119	3191
1970 Federal Surplus/Deficit	3650	1750	340	1038	711	382	2020	1587	-182	-431	1592	3070	4532	1268	1504
1971 Federal Surplus/Deficit	2460	1407	71	1038	810	256	3670	5144	2594	3251	3957	6490	6241	4405	3021
1972 Federal Surplus/Deficit	3665	3902	964	1121	726	1399	3472	4753	5169	5492	2427	6191	6682	4825	3587
1973 Federal Surplus/Deficit	4215	3597	1417	1287	592	1633	2857	-1606	-758	-1034	-990	252	1594	1604	981
1974 Federal Surplus/Deficit	2353	710	-28	665	294	2441	6128	5099	3911	4794	5396	5610	6810	6066	3635
1975 Federal Surplus/Deficit	3729	3872	1363	804	613	489	2276	1150	2611	1591	1842	3954	4983	5097	2405
1976 Federal Surplus/Deficit	2557	1853	738	1695	1886	4715	4480	2992	2013	4736	3510	5697	3062	4638	3187
1977 Federal Surplus/Deficit	5126	4801	3889	1441	619	119	486	-1977	-1437	-1170	-1513	98	219	434	626
1978 Federal Surplus/Deficit	2391	526	-55	492	404	302	1606	50	2471	1595	2331	3473	2725	3271	1513
-Ranked Averages-															
Top Ten Percent	3163	2970	726	1461	1068	3050	4987	4078	3707	4123	4462	5697	5459	4231	3485
Middle Eighty Percent	3182	2116	707	1279	796	1073	1863	722	889	1897	2246	3766	4092	3053	1913
Bottom Ten Percent	2869	1562	199	941	662	-22	-1021	-1706	-799	-419	-993	-472	990	1254	128

Federal Surplus/Deficit by Water Year PNW Loads and Resources Study 2007 - 2008 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Federal Surplus/Deficit	2871	842	-269	373	149	-436	168	-1836	-618	-644	-978	-86	2147	1764	200
1930 Federal Surplus/Deficit	1502	620	-381	549	310	-456	-1915	-865	-566	-273	-564	-140	2052	1991	102
1931 Federal Surplus/Deficit	1971	882	-257	493	275	-410	-1866	-1811	-788	256	-1199	374	1565	1091	-31
1932 Federal Surplus/Deficit	1838	414	-232	404	161	-501	-1837	-1964	613	3164	4900	5335	4890	2918	1245
1933 Federal Surplus/Deficit	3145	2238	-38	560	-87	430	2666	1918	-603	617	1453	3679	7174	5294	2060
1934 Federal Surplus/Deficit	2680	2997	561	1680	1645	4763	5827	4238	2679	5863	5155	4786	1391	2537	3205
1935 Federal Surplus/Deficit	1245	-84	-422	303	-126	-24	2122	2576	-1105	409	2152	2952	3744	2901	1232
1936 Federal Surplus/Deficit	2679	898	-249	499	184	-446	-1163	-1797	-388	-382	1851	6480	3392	1864	908
1937 Federal Surplus/Deficit	2414	652	-347	544	234	-467	-1653	-1623	-617	-420	-706	328	1531	1345	20
1938 Federal Surplus/Deficit	2018	272	-355	706	104	-377	2926	-117	1654	2521	2640	5531	4126	2483	1701
1939 Federal Surplus/Deficit	1772	480	53	620	180	-477	561	-1511	-45	452	1216	4193	2058	1971	797
1940 Federal Surplus/Deficit	2600	773	-339	734	127	-262	-89	-718	1881	1372	1972	2856	2801	1350	975
1941 Federal Surplus/Deficit	1675	346	-389	520	7.0	135	465	-1770	-522	-780	-804	952	2371	707	224
1942 Federal Surplus/Deficit	1446	487	-15	462	-114	1711	3075	-1144	-1110	-73	667	2590	5329	3449	1292
1943 Federal Surplus/Deficit	3123	2186	-50	521	12	-50	2297	1588	2312	5508	4794	5469	5124	3557	2382
1944 Federal Surplus/Deficit	2908	2106	-54	626	211	-500	541	-1762	-1039	-592	-1144	-106	1294	542	116
1945 Federal Surplus/Deficit	1537	-22	-274	333	179	-494	-1795	-1345	-752	-521	-877	2849	4377	1912	421
1946 Federal Surplus/Deficit	1710	1250	-463	638	189	-425	978	993	2404	2982	3888	5823	4527	3383	1913
1947 Federal Surplus/Deficit	3214	1884	175	506	160	2532	3306	2514	2677	1373	2765	4960	4211	3016	2390
1948 Federal Surplus/Deficit	3220	1296	5.8	2696	1144	1441	3175	68	1268	1604	3706	6962	7889	3827	2782
1949 Federal Surplus/Deficit	2810	3295	892	801	80	188	1113	-94	3492	1661	4613	5845	4033	1242	1982
1950 Federal Surplus/Deficit	1503	13	-658	531	1	-704	1374	2928	4248	4050	3807	4723	6976	3937	2337
1951 Federal Surplus/Deficit	2424	2741	333	1530	1640	3519	4687	4715	2912	3910	4343	5867	3396	3854	3263
1952 Federal Surplus/Deficit	2908	2846	633	2153	336	1849	2949	1434	1667	4131	4515	6865	4333	2251	2639
1953 Federal Surplus/Deficit	2925	1148	-119	495	270	-463	330	2553	-123	-501	1109	4398	6737	4015	1703
1954 Federal Surplus/Deficit	3052	1942	208	779	255	889	1980	2798	1258	3334	2582	5200	6234	4737	2483
1955 Federal Surplus/Deficit	4046	3052	2824	1373	766	1028	-22	-1436	-972	430	-44	2336	7550	5808	1916
1956 Federal Surplus/Deficit	2824	3223	100	1245	1041	3188	5227	1955	3624	4109	6006	6913	7540	4189	3592
1957 Federal Surplus/Deficit	3182	2451	150	903	49	1056	1680	-798	883	4679	2889	6458	7251	2438	2223
1958 Federal Surplus/Deficit	2067	708	-206	635	180	-337	1197	1477	1481	667	3491	5806	5712	2003	1785
1959 Federal Surplus/Deficit	2096	989	-109	529	664	1815	4700	3144	1492	2842	2028	4090	6189	4547	2587
1960 Federal Surplus/Deficit	2924	2273	2603	3328	2130	2700	2952	125	1309	5967	3855	3630	4529	3043	2822
1961 Federal Surplus/Deficit	3219	859	-37	681	390	157	1736	2177	2168	2883	2858	4357	7119	2586	2187
1962 Federal Surplus/Deficit	2280	1360	-397	597	161	-588	1613	-832	-577	4274	4553	3785	3663	3269	1411
1963 Federal Surplus/Deficit	2738	1779	-162	1100	808	1792	1940	725	560	521	783	4596	4291	2987	1796
1964 Federal Surplus/Deficit	3448	1993	283	420	218	-219	1481	-66	-620	1596	1654	3376	7211	5324	1813
1965 Federal Surplus/Deficit	2957	2685	886	1498	349	3398	5744	4320	3171	2612	4436	5632	5082	2542	3247
1966 Federal Surplus/Deficit	3020	2454	237	1032	396	980	2594	-330	-321	3320	1502	3699	3123	3359	1660
1967 Federal Surplus/Deficit	3262	1609	-299	492	159	126	3008	3733	640	2254	1003	2450	6766	4632	2148
1968 Federal Surplus/Deficit	3021	2357	342	847	284	817	2495	1799	1448	-810	883	2577	4912	4284	1878
1969 Federal Surplus/Deficit	3184	2496	1288	1619	1184	1674	4553	3270	1922	5101	4582	6711	4784	3223	3159
1970 Federal Surplus/Deficit	3118	1208	-119	618	284	-55	2098	1727	-101	-336	1694	3628	5260	1362	1462
1971 Federal Surplus/Deficit	1922	860	-394	613	379	-184	3761	5298	2674	3344	4055	7065	6985	4514	2983
1972 Federal Surplus/Deficit	3139	3377	506	698	296	960	3563	4907	5265	5608	2527	6767	7429	4946	3555
1973 Federal Surplus/Deficit	3693	3072	961	867	163	1196	2949	-1479	-685	-943	-902	799	2328	1698	938
1974 Federal Surplus/Deficit	1815	163	-488	236	-138	1998	6235	5258	4002	4898	5498	6182	7558	6187	3601
1975 Federal Surplus/Deficit	3203	3348	908	380	184	50	2368	1294	2692	1690	1930	4521	5715	5209	2367
1976 Federal Surplus/Deficit	2024	1315	279	1275	1453	4286	4586	3145	2096	4839	3606	6270	3790	4753	3152
1977 Federal Surplus/Deficit	4611	4280	3453	1023	190	-317	569	-1852	-1364	-1086	-1429	656	949	522	585
1978 Federal Surplus/Deficit	1851	-19	-515	64	-26	-145	1686	176	2559	1702	2428	4043	3451	3374	1471
-Ranked Averages-															
Top Ten Percent	2632	2438	267	1042	638	2613	5091	4231	3795	4227	4562	6272	6201	4344	3452
Middle Eighty Percent	2650	1578	250	858	368	639	1955	861	970	1993	2338	4333	4832	3157	1875
Bottom Ten Percent	2333	1020	-261	517	236	-454	-945	-1579	-726	-335	-918	74	1718	1347	81

Federal Surplus/Deficit by Water Year PNW Loads and Resources Study 2008 - 2009 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Federal Surplus/Deficit	2960	925	-185	460	223	-368	131	-1931	-653	-675	-997	-572	1497	1755	122
1930 Federal Surplus/Deficit	1588	703	-298	633	386	-387	-1957	-958	-600	-302	-583	-627	1402	1983	23
1931 Federal Surplus/Deficit	2059	967	-174	577	351	-340	-1907	-1906	-823	229	-1219	-111	917	1084	-110
1932 Federal Surplus/Deficit	1926	498	-149	489	236	-434	-1879	-2059	581	3139	4893	4858	4246	2911	1169
1933 Federal Surplus/Deficit	3234	2325	46	646	-11	499	2635	1834	-635	592	1440	3201	6531	5290	1986
1934 Federal Surplus/Deficit	2769	3087	648	1770	1721	4840	5798	4156	2653	5841	5148	4310	739	2529	3132
1935 Federal Surplus/Deficit	1333	0.6	-337	388	-51	44	2091	2494	-1136	382	2140	2470	3097	2895	1157
1936 Federal Surplus/Deficit	2768	984	-165	585	260	-377	-1201	-1892	-422	-411	1840	6003	2747	1856	832
1937 Federal Surplus/Deficit	2502	736	-263	629	310	-398	-1693	-1717	-652	-449	-724	-161	879	1336	-58
1938 Federal Surplus/Deficit	2106	358	-271	791	180	-308	2894	-205	1625	2496	2629	5055	3479	2477	1626
1939 Federal Surplus/Deficit	1859	563	138	706	254	-409	528	-1604	-78	425	1203	3713	1407	1963	720
1940 Federal Surplus/Deficit	2688	857	-256	821	204	-194	-127	-811	1853	1345	1964	2374	2151	1342	899
1941 Federal Surplus/Deficit	1762	431	-306	606	83	205	425	-1864	-556	-806	-817	468	1721	697	147
1942 Federal Surplus/Deficit	1533	572	69	548	-38	1779	3047	-1236	-1145	-100	654	2109	4685	3444	1216
1943 Federal Surplus/Deficit	3212	2273	35	607	86	18	2265	1500	2284	5485	4785	4993	4479	3550	2308
1944 Federal Surplus/Deficit	2996	2193	30	712	285	-432	504	-1857	-1075	-623	-1161	-591	642	531	38
1945 Federal Surplus/Deficit	1623	61	-191	417	254	-426	-1837	-1440	-787	-552	-897	2369	3731	1905	343
1946 Federal Surplus/Deficit	1796	1336	-380	722	264	-356	941	905	2376	2957	3879	5347	3884	3376	1839
1947 Federal Surplus/Deficit	3303	1971	260	592	235	2600	3278	2429	2650	1348	2756	4483	3567	3009	2316
1948 Federal Surplus/Deficit	3308	1381	90	2787	1219	1513	3145	-23	1240	1578	3696	6486	7245	3823	2709
1949 Federal Surplus/Deficit	2899	3384	978	889	155	256	1080	-187	3465	1636	4604	5367	3387	1234	1907
1950 Federal Surplus/Deficit	1589	96	-575	616	76	-635	1341	2841	4222	4026	3798	4247	6333	3932	2263
1951 Federal Surplus/Deficit	2512	2829	417	1619	1715	3594	4659	4634	2885	3885	4335	5391	2750	3849	3191
1952 Federal Surplus/Deficit	2997	2934	719	2243	412	1919	2919	1349	1636	4106	4505	6389	3688	2245	2566
1953 Federal Surplus/Deficit	3014	1233	-35	580	345	-394	290	2470	-152	-527	1096	3920	6094	4009	1628
1954 Federal Surplus/Deficit	3141	2029	293	867	331	958	1949	2714	1230	3309	2571	4724	5591	4733	2410
1955 Federal Surplus/Deficit	4137	3141	2914	1462	842	1098	-59	-1531	-1007	404	-53	1853	6907	5804	1842
1956 Federal Surplus/Deficit	2913	3312	185	1333	1116	3262	5198	1871	3596	4086	5999	6437	6897	4184	3519
1957 Federal Surplus/Deficit	3272	2539	235	991	124	1125	1647	-891	854	4654	2880	5982	6608	2430	2148
1958 Federal Surplus/Deficit	2155	792	-123	721	255	-270	1164	1388	1454	641	3481	5328	5070	1994	1710
1959 Federal Surplus/Deficit	2183	1074	-25	616	739	1885	4671	3062	1462	2818	2018	3614	5547	4542	2513
1960 Federal Surplus/Deficit	3013	2361	2693	3419	2206	2773	2923	36	1279	5946	3847	3152	3885	3036	2749
1961 Federal Surplus/Deficit	3309	942	48	768	466	225	1703	2093	2141	2859	2847	3881	6477	2579	2113
1962 Federal Surplus/Deficit	2368	1445	-314	683	235	-521	1581	-921	-612	4248	4546	3307	3017	3263	1335
1963 Federal Surplus/Deficit	2828	1866	-78	1188	884	1863	1910	639	526	495	771	4117	3646	2981	1721
1964 Federal Surplus/Deficit	3537	2080	368	506	292	-151	1448	-155	-655	1568	1642	2897	6568	5320	1738
1965 Federal Surplus/Deficit	3046	2773	972	1588	425	3468	5715	4238	3143	2586	4428	5156	4437	2534	3174
1966 Federal Surplus/Deficit	3110	2541	322	1120	472	1048	2563	-417	-355	3296	1492	3221	2476	3353	1585
1967 Federal Surplus/Deficit	3352	1694	-216	578	234	194	2978	3651	611	2230	991	1972	6123	4627	2074
1968 Federal Surplus/Deficit	3111	2445	427	934	360	885	2465	1715	1421	-839	871	2094	4269	4278	1803
1969 Federal Surplus/Deficit	3274	2584	1376	1708	1259	1745	4524	3188	1893	5078	4574	6234	4141	3217	3087
1970 Federal Surplus/Deficit	3206	1293	-35	706	359	12	2063	1642	-133	-363	1684	3148	4614	1354	1387
1971 Federal Surplus/Deficit	2010	943	-311	698	453	-116	3730	5216	2646	3319	4047	6589	6341	4508	2910
1972 Federal Surplus/Deficit	3229	3466	591	785	371	1028	3533	4825	5239	5587	2518	6291	6787	4942	3483
1973 Federal Surplus/Deficit	3783	3161	1047	954	237	1265	2918	-1573	-719	-971	-916	313	1679	1689	862
1974 Federal Surplus/Deficit	1903	246	-406	320	-63	2067	6206	5177	3975	4875	5491	5706	6915	6183	3528
1975 Federal Surplus/Deficit	3293	3437	994	466	258	117	2336	1209	2663	1665	1919	4044	5071	5205	2293
1976 Federal Surplus/Deficit	2112	1401	365	1363	1528	4362	4557	3062	2069	4816	3597	5794	3144	4748	3080
1977 Federal Surplus/Deficit	4702	4370	3544	1110	264	-249	532	-1947	-1400	-1117	-1445	171	297	511	507
1978 Federal Surplus/Deficit	1938	65	-431	148	49	-79	1651	85	2532	1678	2418	3566	2805	3368	1395
-Ranked Averages-															
Top Ten Percent	2721	2525	352	1129	713	2684	5062	4149	3768	4204	4554	5796	5557	4338	3379
Middle Eighty Percent	2739	1664	335	945	443	708	1922	773	939	1967	2327	3854	4187	3151	1801
Bottom Ten Percent	2421	1105	-178	602	311	-385	-984	-1674	-760	-364	-937	-412	1067	1338	3.1

Federal Surplus/Deficit by Water Year PNW Loads and Resources Study 2009 - 2010 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Federal Surplus/Deficit	2866	826	-286	360	117	-480	11	-2048	-764	-774	-1097	-196	2047	1664	111
1930 Federal Surplus/Deficit	1491	604	-398	531	281	-498	-2082	-1072	-710	-399	-684	-252	1952	1893	13
1931 Federal Surplus/Deficit	1963	869	-275	475	246	-451	-2032	-2023	-934	133	-1321	265	1468	994	-120
1932 Federal Surplus/Deficit	1831	399	-249	387	131	-548	-2005	-2176	473	3045	4804	5243	4802	2822	1160
1933 Federal Surplus/Deficit	3140	2228	-53	547	-116	387	2522	1729	-743	499	1345	3584	7088	5204	1980
1934 Federal Surplus/Deficit	2675	2993	551	1673	1616	4738	5686	4053	2550	5751	5060	4696	1287	2439	3127
1935 Federal Surplus/Deficit	1237	-98	-436	286	-156	-69	1976	2389	-1243	287	2047	2851	3649	2807	1149
1936 Federal Surplus/Deficit	2674	887	-265	484	156	-487	-1323	-2008	-532	-508	1746	6388	3302	1766	823
1937 Federal Surplus/Deficit	2406	637	-364	528	205	-509	-1817	-1833	-762	-547	-824	213	1427	1246	-69
1938 Federal Surplus/Deficit	2011	260	-372	690	76	-419	2779	-315	1520	2402	2537	5441	4033	2388	1619
1939 Federal Surplus/Deficit	1764	464	38	607	148	-521	412	-1719	-187	330	1107	4096	1956	1873	711
1940 Federal Surplus/Deficit	2594	759	-356	721	100	-305	-249	-926	1749	1249	1874	2755	2701	1251	890
1941 Federal Surplus/Deficit	1666	332	-406	507	-21	95	302	-1980	-667	-901	-911	847	2272	606	137
1942 Federal Surplus/Deficit	1437	473	-32	447	-142	1667	2935	-1350	-1256	-196	559	2489	5240	3356	1207
1943 Federal Surplus/Deficit	3119	2176	-66	507	-20	-94	2151	1389	2179	5393	4695	5379	5034	3462	2301
1944 Federal Surplus/Deficit	2902	2097	-71	612	179	-544	383	-1975	-1187	-722	-1260	-213	1191	438	27
1945 Federal Surplus/Deficit	1526	-38	-291	315	148	-538	-1963	-1557	-899	-650	-999	2751	4285	1816	332
1946 Federal Surplus/Deficit	1699	1238	-481	621	159	-467	821	794	2273	2863	3788	5733	4439	3288	1831
1947 Federal Surplus/Deficit	3209	1874	161	492	130	2488	3165	2321	2546	1254	2664	4868	4123	2921	2310
1948 Federal Surplus/Deficit	3213	1283	-9.8	2691	1114	1404	3031	-136	1137	1483	3605	6872	7801	3737	2703
1949 Federal Surplus/Deficit	2805	3289	879	790	50	143	963	-302	3361	1541	4514	5751	3941	1143	1900
1950 Federal Surplus/Deficit	1492	-4.1	-676	515	-29	-746	1226	2733	4120	3933	3708	4632	6890	3845	2256
1951 Federal Surplus/Deficit	2417	2734	318	1522	1609	3488	4547	4530	2781	3792	4245	5777	3304	3762	3186
1952 Federal Surplus/Deficit	2903	2839	621	2147	308	1809	2805	1242	1530	4013	4414	6775	4243	2157	2560
1953 Federal Surplus/Deficit	2920	1134	-136	479	240	-505	167	2364	-258	-622	1001	4304	6650	3922	1620
1954 Federal Surplus/Deficit	3047	1933	194	768	226	846	1834	2609	1125	3216	2478	5110	6148	4647	2404
1955 Federal Surplus/Deficit	4045	3047	2820	1365	738	989	-180	-1647	-1119	309	-145	2233	7464	5718	1834
1956 Federal Surplus/Deficit	2819	3217	85	1236	1010	3155	5086	1765	3492	3995	5911	6823	7454	4097	3514
1957 Federal Surplus/Deficit	3178	2443	136	892	18	1015	1531	-1006	749	4560	2788	6368	7165	2341	2141
1958 Federal Surplus/Deficit	2059	692	-223	621	149	-383	1047	1278	1351	546	3389	5712	5627	1904	1702
1959 Federal Surplus/Deficit	2087	976	-126	516	634	1775	4559	2959	1355	2725	1927	4000	6104	4454	2507
1960 Federal Surplus/Deficit	2920	2265	2599	3323	2102	2666	2811	-74	1173	5856	3758	3536	4439	2948	2744
1961 Federal Surplus/Deficit	3215	843	-51	669	361	112	1588	1987	2037	2766	2753	4267	7034	2490	2107
1962 Federal Surplus/Deficit	2273	1348	-415	584	129	-634	1464	-1033	-723	4154	4457	3691	3571	3175	1327
1963 Federal Surplus/Deficit	2734	1769	-178	1090	779	1753	1797	531	415	400	678	4499	4201	2892	1714
1964 Federal Surplus/Deficit	3443	1983	269	406	186	-264	1332	-266	-765	1472	1548	3281	7125	5234	1730
1965 Federal Surplus/Deficit	2953	2678	874	1491	320	3357	5603	4134	3039	2492	4337	5542	4991	2445	3169
1966 Federal Surplus/Deficit	3016	2446	223	1021	368	936	2449	-527	-465	3204	1399	3605	3029	3265	1578
1967 Federal Surplus/Deficit	3259	1595	-316	478	128	82	2864	3547	506	2138	896	2355	6680	4540	2067
1968 Federal Surplus/Deficit	3017	2350	328	835	256	774	2350	1609	1317	-936	777	2473	4826	4190	1797
1969 Federal Surplus/Deficit	3181	2489	1280	1611	1154	1636	4412	3084	1788	4987	4485	6620	4697	3128	3082
1970 Federal Surplus/Deficit	3111	1194	-136	607	254	-101	1944	1535	-240	-459	1593	3531	5168	1264	1379
1971 Federal Surplus/Deficit	1914	843	-412	597	347	-228	3616	5113	2541	3225	3957	6975	6898	4421	2903
1972 Federal Surplus/Deficit	3136	3372	492	685	266	916	3418	4721	5138	5497	2428	6677	7344	4856	3477
1973 Federal Surplus/Deficit	3691	3067	948	855	132	1154	2804	-1689	-830	-1068	-1012	690	2229	1599	853
1974 Federal Surplus/Deficit	1808	146	-507	217	-170	1955	6094	5073	3873	4783	5402	6092	7472	6097	3522
1975 Federal Surplus/Deficit	3199	3343	896	365	151	4.7	2221	1101	2558	1571	1826	4428	5625	5119	2287
1976 Federal Surplus/Deficit	2017	1305	266	1265	1423	4258	4445	2958	1965	4724	3507	6180	3697	4662	3074
1977 Federal Surplus/Deficit	4610	4276	3451	1012	158	-361	412	-2064	-1513	-1216	-1543	548	845	418	497
1978 Federal Surplus/Deficit	1842	-34	-532	46	-57	-193	1532	-28	2429	1586	2327	3951	3357	3280	1387
-Ranked Averages-															
Top Ten Percent	2626	2429	252	1030	607	2574	4950	4044	3665	4112	4465	6182	6113	4252	3374
Middle Eighty Percent	2644	1567	236	846	338	597	1806	663	833	1873	2235	4238	4742	3062	1793
Bottom Ten Percent	2326	1007	-279	501	206	-496	-1108	-1790	-871	-462	-1037	-37	1617	1247	-7.8

Federal Surplus/Deficit by Water Year PNW Loads and Resources Study 2010 - 2011 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Federal Surplus/Deficit	2857	812	-300	342	93	-510	-17	-2078	-788	-804	-1124	-690	1386	1643	-4.1
1930 Federal Surplus/Deficit	1479	590	-413	511	259	-528	-2113	-1099	-734	-428	-712	-747	1291	1874	-103
1931 Federal Surplus/Deficit	1953	856	-290	454	223	-481	-2063	-2052	-958	106	-1349	-228	807	975	-236
1932 Federal Surplus/Deficit	1820	385	-264	367	108	-580	-2036	-2205	451	3020	4788	4757	4146	2803	1046
1933 Federal Surplus/Deficit	3130	2217	-67	528	-138	357	2500	1710	-765	474	1324	3097	6433	5187	1868
1934 Federal Surplus/Deficit	2666	2983	540	1658	1594	4715	5666	4035	2533	5728	5043	4211	624	2420	3017
1935 Federal Surplus/Deficit	1226	-112	-449	266	-179	-101	1953	2371	-1264	261	2027	2361	2991	2789	1037
1936 Federal Surplus/Deficit	2665	875	-278	466	133	-517	-1351	-2037	-555	-536	1726	5902	2646	1747	710
1937 Federal Surplus/Deficit	2396	624	-378	509	183	-539	-1848	-1862	-785	-576	-850	-283	764	1226	-185
1938 Federal Surplus/Deficit	2000	248	-386	671	54	-449	2756	-338	1501	2377	2518	4956	3376	2370	1507
1939 Federal Surplus/Deficit	1753	451	25	588	125	-552	388	-1745	-209	303	1085	3609	1294	1853	598
1940 Federal Surplus/Deficit	2584	745	-370	702	78	-336	-277	-953	1731	1223	1856	2266	2040	1232	776
1941 Federal Surplus/Deficit	1656	319	-420	488	-43	65	272	-2008	-690	-927	-932	356	1611	585	23
1942 Federal Surplus/Deficit	1425	460	-46	428	-165	1637	2914	-1376	-1280	-223	537	2000	4583	3339	1094
1943 Federal Surplus/Deficit	3109	2165	-79	489	-43	-125	2129	1366	2161	5369	4677	4894	4377	3443	2189
1944 Federal Surplus/Deficit	2892	2086	-86	594	155	-575	355	-2004	-1212	-752	-1285	-706	529	417	-88
1945 Federal Surplus/Deficit	1515	-52	-306	295	125	-569	-1995	-1586	-924	-680	-1026	2262	3628	1797	217
1946 Federal Surplus/Deficit	1688	1227	-495	601	136	-497	794	770	2255	2838	3770	5247	3783	3269	1719
1947 Federal Surplus/Deficit	3200	1863	148	474	107	2457	3145	2301	2529	1229	2646	4381	3468	2903	2199
1948 Federal Surplus/Deficit	3204	1270	-23	2676	1091	1376	3010	-161	1119	1457	3587	6387	7146	3720	2592
1949 Federal Surplus/Deficit	2795	3280	867	773	27	112	939	-328	3344	1516	4497	5265	3284	1123	1787
1950 Federal Surplus/Deficit	1481	-19	-691	496	-52	-776	1203	2712	4104	3907	3690	4146	6235	3827	2144
1951 Federal Surplus/Deficit	2407	2724	305	1506	1586	3462	4526	4513	2764	3767	4228	5291	2646	3744	3076
1952 Federal Surplus/Deficit	2894	2828	609	2131	285	1780	2784	1222	1510	3988	4396	6290	3586	2138	2449
1953 Federal Surplus/Deficit	2910	1121	-150	460	217	-535	137	2345	-278	-648	980	3817	5994	3904	1508
1954 Federal Surplus/Deficit	3038	1922	181	751	203	816	1812	2590	1107	3190	2459	4624	5493	4630	2293
1955 Federal Surplus/Deficit	4036	3037	2812	1349	716	960	-208	-1676	-1143	283	-163	1743	6809	5702	1722
1956 Federal Surplus/Deficit	2809	3207	72	1220	987	3128	5066	1746	3474	3971	5894	6337	6799	4079	3404
1957 Federal Surplus/Deficit	3168	2433	123	875	-5.3	985	1507	-1032	730	4535	2770	5883	6510	2321	2029
1958 Federal Surplus/Deficit	2048	678	-238	603	126	-415	1023	1255	1334	519	3370	5226	4972	1884	1590
1959 Federal Surplus/Deficit	2076	963	-140	499	611	1746	4539	2941	1336	2701	1908	3514	5449	4436	2396
1960 Federal Surplus/Deficit	2910	2255	2590	3308	2080	2640	2791	-97	1153	5833	3740	3049	3783	2930	2633
1961 Federal Surplus/Deficit	3206	829	-64	652	338	80	1564	1968	2020	2741	2732	3781	6379	2471	1995
1962 Federal Surplus/Deficit	2263	1335	-429	566	105	-666	1440	-1057	-747	4128	4441	3205	2914	3156	1214
1963 Federal Surplus/Deficit	2725	1758	-193	1073	756	1725	1775	511	392	374	657	4011	3544	2874	1602
1964 Federal Surplus/Deficit	3434	1972	256	387	162	-296	1308	-290	-789	1445	1527	2793	6470	5218	1617
1965 Federal Surplus/Deficit	2944	2667	862	1476	298	3328	5582	4116	3021	2466	4320	5057	4334	2426	3058
1966 Federal Surplus/Deficit	3007	2435	211	1004	346	905	2427	-549	-489	3180	1379	3118	2371	3247	1466
1967 Federal Surplus/Deficit	3250	1582	-330	459	105	51	2843	3529	486	2113	875	1868	6025	4523	1956
1968 Federal Surplus/Deficit	3008	2340	315	818	233	743	2328	1590	1299	-965	756	1982	4171	4172	1685
1969 Federal Surplus/Deficit	3172	2479	1270	1596	1132	1607	4392	3066	1769	4963	4468	6135	4042	3110	2972
1970 Federal Surplus/Deficit	3101	1181	-150	589	230	-132	1918	1516	-261	-485	1574	3043	4511	1245	1266
1971 Federal Surplus/Deficit	1904	829	-427	578	323	-259	3594	5095	2523	3199	3939	6489	6243	4404	2792
1972 Federal Surplus/Deficit	3127	3362	479	667	243	885	3396	4703	5122	5474	2410	6191	6688	4840	3367
1973 Federal Surplus/Deficit	3682	3058	935	838	108	1124	2782	-1717	-854	-1096	-1035	197	1569	1579	739
1974 Federal Surplus/Deficit	1797	132	-522	197	-193	1924	6074	5056	3856	4759	5386	5607	6816	6080	3411
1975 Federal Surplus/Deficit	3190	3334	883	347	127	-27	2199	1081	2539	1546	1806	3942	4969	5102	2175
1976 Federal Surplus/Deficit	2007	1293	253	1249	1399	4234	4424	2940	1947	4700	3489	5695	3039	4645	2964
1977 Federal Surplus/Deficit	4602	4267	3443	995	134	-392	385	-2093	-1538	-1246	-1568	55	182	395	383
1978 Federal Surplus/Deficit	1831	-48	-547	26	-81	-225	1506	-53	2411	1561	2309	3465	2700	3262	1274
-Ranked Averages-															
Top Ten Percent	2617	2418	239	1013	584	2545	4929	4027	3647	4088	4447	5696	5457	4234	3263
Middle Eighty Percent	2635	1555	223	828	315	567	1782	640	812	1847	2216	3751	4085	3044	1681
Bottom Ten Percent	2315	994	-293	482	183	-527	-1137	-1819	-895	-491	-1064	-531	955	1227	-123

Federal Surplus/Deficit by Water Year PNW Loads and Resources Study 2011 - 2012 Operating Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Federal Surplus/Deficit	2841	793	-313	277	-4.8	-631	-32	-1996	-812	-819	-1142	-253	1970	1607	54
1930 Federal Surplus/Deficit	1462	572	-427	445	162	-648	-2131	-1015	-757	-443	-730	-311	1874	1838	-45
1931 Federal Surplus/Deficit	1937	838	-304	389	126	-601	-2080	-1971	-982	93	-1368	209	1390	939	-178
1932 Federal Surplus/Deficit	1804	366	-278	302	11	-702	-2054	-2124	430	3007	4776	5199	4732	2768	1105
1933 Federal Surplus/Deficit	3114	2201	-79	464	-235	236	2490	1799	-787	461	1311	3539	7019	5152	1928
1934 Federal Surplus/Deficit	2650	2966	529	1596	1498	4600	5655	4124	2514	5715	5032	4653	1205	2384	3078
1935 Federal Surplus/Deficit	1210	-130	-461	201	-276	-222	1942	2461	-1285	248	2014	2801	3576	2753	1097
1936 Federal Surplus/Deficit	2649	858	-291	401	37	-638	-1366	-1955	-578	-550	1715	6343	3232	1712	769
1937 Federal Surplus/Deficit	2380	606	-392	443	86	-659	-1865	-1779	-808	-591	-867	152	1346	1190	-127
1938 Federal Surplus/Deficit	1984	231	-399	606	-42	-569	2745	-252	1481	2364	2507	5398	3962	2334	1567
1939 Federal Surplus/Deficit	1737	433	12	524	28	-673	376	-1662	-231	290	1071	4050	1876	1818	657
1940 Federal Surplus/Deficit	2568	727	-384	638	-19	-457	-292	-870	1712	1210	1845	2706	2622	1196	836
1941 Federal Surplus/Deficit	1640	301	-434	424	-139	-54	256	-1926	-714	-940	-946	794	2195	549	82
1942 Federal Surplus/Deficit	1409	442	-59	363	-261	1517	2904	-1292	-1304	-236	525	2440	5170	3303	1154
1943 Federal Surplus/Deficit	3093	2148	-92	424	-140	-246	2118	1454	2142	5356	4665	5336	4964	3407	2250
1944 Federal Surplus/Deficit	2876	2070	-99	529	57	-696	341	-1922	-1236	-767	-1301	-268	1111	380	-30
1945 Federal Surplus/Deficit	1499	-71	-320	230	27	-690	-2012	-1504	-948	-695	-1044	2704	4214	1761	276
1946 Federal Surplus/Deficit	1671	1210	-509	536	39	-617	780	857	2236	2825	3758	5689	4370	3234	1779
1947 Federal Surplus/Deficit	3184	1846	136	410	9.6	2338	3135	2390	2510	1216	2635	4823	4054	2867	2259
1948 Federal Surplus/Deficit	3187	1253	-36	2614	995	1258	2999	-76	1100	1444	3576	6828	7731	3685	2652
1949 Federal Surplus/Deficit	2779	3263	856	709	-70	-9.5	927	-244	3325	1503	4486	5707	3870	1088	1848
1950 Federal Surplus/Deficit	1464	-37	-704	431	-149	-895	1191	2799	4084	3895	3679	4588	6821	3792	2205
1951 Federal Surplus/Deficit	2391	2708	292	1443	1490	3347	4516	4602	2745	3754	4217	5733	3233	3709	3137
1952 Federal Surplus/Deficit	2878	2812	597	2069	189	1662	2773	1310	1489	3975	4385	6732	4172	2102	2510
1953 Federal Surplus/Deficit	2894	1104	-164	395	120	-656	122	2434	-298	-661	968	4259	6580	3868	1568
1954 Federal Surplus/Deficit	3022	1906	168	687	107	695	1801	2680	1087	3177	2448	5066	6079	4595	2354
1955 Federal Surplus/Deficit	4020	3021	2802	1286	620	840	-223	-1594	-1167	270	-174	2183	7396	5666	1781
1956 Federal Surplus/Deficit	2793	3191	59	1157	890	3012	5055	1835	3455	3958	5883	6779	7385	4044	3465
1957 Federal Surplus/Deficit	3152	2416	110	812	-102	865	1495	-949	711	4522	2759	6324	7096	2286	2089
1958 Federal Surplus/Deficit	2032	659	-251	539	29	-536	1011	1342	1314	506	3358	5667	5558	1848	1650
1959 Federal Surplus/Deficit	2060	946	-153	435	515	1628	4528	3030	1315	2688	1897	3956	6035	4400	2457
1960 Federal Surplus/Deficit	2894	2238	2580	3246	1983	2522	2781	-11	1133	5820	3729	3491	4369	2894	2694
1961 Federal Surplus/Deficit	3190	811	-77	588	241	-41	1552	2057	2001	2728	2720	4223	6965	2435	2056
1962 Federal Surplus/Deficit	2247	1318	-443	501	7.5	-788	1428	-972	-771	4115	4430	3647	3500	3121	1274
1963 Federal Surplus/Deficit	2709	1741	-206	1010	660	1606	1765	600	368	361	644	4453	4131	2838	1663
1964 Federal Surplus/Deficit	3418	1955	244	323	65	-417	1296	-205	-812	1432	1515	3235	7057	5182	1677
1965 Federal Surplus/Deficit	2927	2651	851	1414	202	3209	5572	4205	3002	2454	4308	5498	4921	2391	3119
1966 Federal Surplus/Deficit	2991	2418	199	941	250	784	2416	-463	-512	3167	1367	3560	2956	3211	1526
1967 Federal Surplus/Deficit	3234	1564	-344	395	7.5	-69	2833	3618	466	2100	861	2310	6611	4488	2016
1968 Federal Surplus/Deficit	2992	2323	302	754	137	623	2318	1679	1280	-979	742	2421	4757	4136	1746
1969 Federal Surplus/Deficit	3156	2462	1260	1533	1035	1488	4381	3155	1750	4950	4456	6577	4628	3074	3033
1970 Federal Surplus/Deficit	3085	1163	-163	525	133	-254	1906	1605	-282	-498	1562	3485	5097	1209	1326
1971 Federal Surplus/Deficit	1888	811	-441	513	225	-379	3584	5184	2504	3186	3928	6931	6829	4368	2852
1972 Federal Surplus/Deficit	3111	3345	467	603	146	764	3386	4792	5103	5461	2399	6633	7275	4804	3428
1973 Federal Surplus/Deficit	3666	3041	923	774	11	1004	2771	-1634	-877	-1111	-1050	634	2152	1543	798
1974 Federal Surplus/Deficit	1781	113	-536	131	-290	1804	6063	5145	3837	4747	5375	6048	7402	6045	3471
1975 Federal Surplus/Deficit	3174	3317	871	282	30	-148	2188	1169	2520	1533	1795	4384	5555	5067	2236
1976 Federal Surplus/Deficit	1991	1277	241	1186	1303	4119	4414	3029	1928	4687	3477	6137	3626	4609	3026
1977 Federal Surplus/Deficit	4585	4251	3433	931	36	-512	370	-2011	-1563	-1262	-1584	492	763	358	441
1978 Federal Surplus/Deficit	1815	-67	-560	-40	-178	-346	1493	32	2392	1548	2298	3906	3286	3226	1334
-Ranked Averages-															
Top Ten Percent	2601	2401	227	949	487	2427	4918	4116	3628	4075	4436	6138	6043	4198	3324
Middle Eighty Percent	2618	1537	210	764	218	447	1770	727	792	1834	2203	4192	4670	3008	1741
Bottom Ten Percent	2299	976	-307	417	85	-647	-1153	-1737	-919	-505	-1081	-94	1538	1191	-65

<div> <div>Federal Surplus/Deficit by Water Year</div> <div>PNW Loads and Resources Study</div> <div>2012 - 2013 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Federal Surplus/Deficit	2813	762	-337	273	-14	-642	-57	-2183	-835	-839	-1165	-743	1313	1591	-71
1930 Federal Surplus/Deficit	1433	541	-451	440	154	-659	-2161	-1200	-780	-461	-753	-801	1215	1822	-170
1931 Federal Surplus/Deficit	1909	808	-328	383	118	-611	-2109	-2158	-1005	76	-1392	-281	731	923	-303
1932 Federal Surplus/Deficit	1776	335	-302	296	2.5	-715	-2083	-2311	410	2992	4761	4716	4079	2752	981
1933 Federal Surplus/Deficit	3086	2172	-102	460	-242	226	2469	1620	-807	445	1293	3055	6367	5137	1807
1934 Federal Surplus/Deficit	2623	2939	508	1594	1490	4598	5636	3947	2498	5701	5017	4170	544	2368	2958
1935 Federal Surplus/Deficit	1182	-160	-484	195	-284	-233	1921	2283	-1305	232	1997	2315	2921	2738	974
1936 Federal Surplus/Deficit	2622	829	-314	396	29	-648	-1393	-2142	-600	-568	1699	5861	2578	1696	646
1937 Federal Surplus/Deficit	2352	575	-416	438	78	-670	-1894	-1966	-831	-609	-889	-339	687	1174	-252
1938 Federal Surplus/Deficit	1956	201	-423	601	-50	-578	2723	-434	1463	2348	2491	4915	3308	2318	1445
1939 Federal Surplus/Deficit	1709	403	-10	521	19	-683	353	-1848	-252	274	1053	3565	1216	1801	534
1940 Federal Surplus/Deficit	2541	697	-407	634	-26	-467	-319	-1055	1695	1194	1829	2221	1964	1180	712
1941 Federal Surplus/Deficit	1612	271	-457	420	-146	-64	229	-2112	-736	-956	-965	307	1538	532	-42
1942 Federal Surplus/Deficit	1381	412	-83	359	-268	1507	2884	-1476	-1327	-253	507	1955	4516	3287	1031
1943 Federal Surplus/Deficit	3066	2120	-115	420	-149	-256	2098	1273	2125	5341	4651	4853	4310	3392	2128
1944 Federal Surplus/Deficit	2849	2042	-123	526	48	-706	315	-2110	-1260	-787	-1323	-757	452	362	-155
1945 Federal Surplus/Deficit	1470	-102	-344	224	19	-701	-2042	-1690	-971	-714	-1068	2220	3560	1745	151
1946 Federal Surplus/Deficit	1643	1181	-532	530	31	-627	756	675	2219	2809	3743	5207	3716	3218	1657
1947 Federal Surplus/Deficit	3157	1818	113	407	1.5	2329	3115	2212	2493	1200	2619	4340	3401	2851	2138
1948 Federal Surplus/Deficit	3160	1223	-59	2613	987	1251	2979	-259	1083	1428	3560	6347	7079	3670	2531
1949 Federal Surplus/Deficit	2752	3235	834	707	-79	-20	904	-429	3309	1487	4470	5224	3216	1071	1726
1950 Federal Surplus/Deficit	1436	-68	-728	426	-157	-905	1169	2620	4068	3880	3664	4105	6169	3776	2083
1951 Federal Surplus/Deficit	2363	2680	270	1441	1483	3342	4496	4425	2728	3739	4202	5251	2578	3693	3017
1952 Federal Surplus/Deficit	2851	2784	575	2068	181	1654	2753	1132	1470	3960	4370	6250	3518	2087	2389
1953 Federal Surplus/Deficit	2867	1074	-187	390	111	-666	95	2257	-317	-677	950	3775	5927	3853	1446
1954 Federal Surplus/Deficit	2995	1878	145	684	99	685	1781	2502	1069	3162	2432	4584	5427	4580	2232
1955 Federal Surplus/Deficit	3993	2993	2783	1285	612	831	-249	-1780	-1191	254	-190	1697	6743	5651	1659
1956 Federal Surplus/Deficit	2766	3163	36	1155	882	3007	5036	1657	3439	3943	5868	6297	6733	4029	3345
1957 Federal Surplus/Deficit	3125	2388	88	809	-110	856	1472	-1134	693	4507	2743	5843	6444	2269	1968
1958 Federal Surplus/Deficit	2004	629	-274	535	20	-547	989	1161	1297	490	3343	5185	4905	1832	1528
1959 Federal Surplus/Deficit	2032	916	-176	432	507	1620	4509	2853	1297	2672	1881	3473	5382	4385	2336
1960 Federal Surplus/Deficit	2867	2210	2561	3245	1976	2517	2761	-193	1114	5806	3714	3008	3716	2878	2573
1961 Federal Surplus/Deficit	3163	781	-99	585	233	-52	1530	1879	1984	2712	2702	3740	6312	2419	1934
1962 Federal Surplus/Deficit	2219	1288	-467	498	-1.4	-799	1405	-1154	-794	4100	4415	3163	2846	3105	1151
1963 Federal Surplus/Deficit	2681	1713	-230	1008	652	1599	1745	421	346	345	627	3970	3477	2823	1541
1964 Federal Surplus/Deficit	3391	1927	221	319	56	-428	1273	-387	-835	1416	1498	2751	6404	5167	1555
1965 Federal Surplus/Deficit	2900	2623	829	1412	194	3202	5553	4028	2986	2438	4294	5016	4267	2375	2999
1966 Federal Surplus/Deficit	2964	2390	177	938	242	774	2395	-644	-534	3152	1350	3077	2301	3196	1404
1967 Federal Surplus/Deficit	3207	1533	-368	390	-1	-80	2812	3441	447	2085	843	1826	5959	4472	1894
1968 Federal Surplus/Deficit	2965	2295	280	752	130	613	2298	1501	1263	-998	724	1935	4104	4121	1624
1969 Federal Surplus/Deficit	3129	2434	1240	1532	1028	1480	4362	2978	1733	4935	4441	6095	3975	3058	2912
1970 Federal Surplus/Deficit	3058	1133	-187	522	124	-265	1882	1427	-302	-515	1546	3001	4443	1193	1204
1971 Federal Surplus/Deficit	1860	780	-465	509	216	-389	3564	5008	2487	3171	3913	6449	6176	4353	2731
1972 Federal Surplus/Deficit	3084	3317	445	600	138	754	3366	4615	5087	5446	2383	6151	6622	4789	3307
1973 Federal Surplus/Deficit	3639	3013	901	771	2.6	995	2751	-1820	-900	-1129	-1070	145	1495	1526	674
1974 Federal Surplus/Deficit	1753	81	-561	125	-299	1795	6044	4968	3821	4732	5360	5566	6750	6031	3350
1975 Federal Surplus/Deficit	3147	3289	849	278	21	-158	2167	990	2502	1517	1778	3900	4902	5052	2114
1976 Federal Surplus/Deficit	1964	1248	219	1184	1295	4117	4395	2851	1911	4673	3462	5654	2972	4594	2905
1977 Federal Surplus/Deficit	4559	4223	3414	928	27	-522	345	-2198	-1587	-1283	-1606	2.5	103	339	316
1978 Federal Surplus/Deficit	1786	-98	-584	-45	-186	-357	1469	-151	2375	1533	2282	3423	2632	3210	1211
-Ranked Averages-															
Top Ten Percent	2573	2373	204	947	480	2420	4899	3939	3612	4060	4421	5656	5390	4183	3204
Middle Eighty Percent	2591	1508	188	761	210	437	1748	545	772	1818	2187	3708	4016	2992	1619
Bottom Ten Percent	2271	946	-331	412	77	-657	-1181	-1923	-942	-524	-1105	-584	880	1174	-190

Federal Surplus/Deficit by Water Year PNW Loads and Resources Study 2013 - 2014 Operating Year 2003 White Book																3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg	
1929 Federal Surplus/Deficit	2795	741	-358	254	-41	-672	-87	-2215	-861	-862	-1190	-293	1968	1605	3.5	
1930 Federal Surplus/Deficit	1413	520	-472	419	128	-689	-2193	-1230	-806	-483	-779	-353	1870	1837	-96	
1931 Federal Surplus/Deficit	1891	787	-350	362	92	-641	-2141	-2190	-1033	57	-1419	169	1386	938	-229	
1932 Federal Surplus/Deficit	1758	313	-323	276	-24	-747	-2115	-2343	386	2972	4742	5170	4737	2767	1056	
1933 Federal Surplus/Deficit	3068	2153	-123	441	-268	195	2444	1595	-833	426	1272	3510	7025	5152	1883	
1934 Federal Surplus/Deficit	2604	2920	490	1577	1465	4573	5611	3923	2475	5681	4998	4625	1197	2383	3035	
1935 Federal Surplus/Deficit	1164	-181	-504	175	-311	-264	1895	2258	-1330	212	1976	2767	3578	2753	1050	
1936 Federal Surplus/Deficit	2603	810	-334	377	2.5	-678	-1423	-2174	-626	-589	1680	6315	3236	1710	722	
1937 Federal Surplus/Deficit	2334	555	-436	418	52	-700	-1925	-1997	-858	-631	-914	109	1341	1189	-178	
1938 Federal Surplus/Deficit	1938	181	-444	581	-76	-608	2697	-461	1440	2329	2472	5370	3966	2333	1522	
1939 Federal Surplus/Deficit	1691	382	-30	502	-7.7	-714	326	-1878	-278	255	1032	4019	1870	1816	609	
1940 Federal Surplus/Deficit	2522	677	-428	615	-52	-498	-349	-1085	1672	1174	1810	2673	2618	1194	788	
1941 Federal Surplus/Deficit	1593	250	-478	401	-172	-93	198	-2143	-763	-976	-986	758	2194	546	32	
1942 Federal Surplus/Deficit	1362	391	-104	339	-294	1477	2859	-1506	-1354	-272	487	2408	5174	3302	1107	
1943 Federal Surplus/Deficit	3048	2101	-136	401	-176	-286	2073	1247	2102	5322	4631	5307	4968	3407	2205	
1944 Federal Surplus/Deficit	2830	2023	-144	506	21	-737	286	-2142	-1288	-809	-1348	-307	1106	376	-81	
1945 Federal Surplus/Deficit	1451	-123	-365	204	-8	-732	-2074	-1722	-999	-736	-1094	2674	4219	1760	225	
1946 Federal Surplus/Deficit	1623	1161	-553	510	4.7	-657	727	647	2197	2790	3724	5661	4374	3233	1733	
1947 Federal Surplus/Deficit	3138	1799	94	388	-25	2299	3090	2188	2471	1180	2600	4795	4059	2866	2215	
1948 Federal Surplus/Deficit	3141	1203	-80	2596	962	1223	2954	-287	1060	1409	3541	6801	7736	3685	2608	
1949 Federal Surplus/Deficit	2733	3216	815	688	-105	-52	877	-458	3286	1468	4451	5678	3874	1086	1802	
1950 Federal Surplus/Deficit	1417	-89	-749	406	-184	-935	1143	2594	4046	3860	3645	4560	6827	3791	2160	
1951 Federal Surplus/Deficit	2345	2661	250	1424	1457	3316	4471	4401	2706	3719	4183	5705	3237	3708	3094	
1952 Federal Surplus/Deficit	2832	2765	556	2051	156	1625	2728	1107	1446	3940	4351	6704	4177	2102	2466	
1953 Federal Surplus/Deficit	2848	1054	-208	371	85	-696	65	2232	-341	-697	930	4230	6586	3868	1522	
1954 Federal Surplus/Deficit	2976	1858	125	666	73	655	1755	2478	1046	3142	2413	5038	6085	4595	2309	
1955 Federal Surplus/Deficit	3975	2974	2766	1267	587	802	-278	-1812	-1218	234	-209	2149	7401	5666	1735	
1956 Federal Surplus/Deficit	2747	3144	16	1137	856	2980	5011	1633	3416	3924	5849	6751	7391	4044	3422	
1957 Federal Surplus/Deficit	3106	2369	68	791	-137	827	1446	-1163	670	4487	2724	6297	7102	2284	2044	
1958 Federal Surplus/Deficit	1986	608	-295	515	-6.5	-578	962	1134	1275	470	3324	5639	5564	1847	1604	
1959 Federal Surplus/Deficit	2014	896	-197	413	481	1591	4484	2829	1273	2653	1862	3927	6041	4400	2413	
1960 Federal Surplus/Deficit	2848	2191	2544	3228	1951	2489	2736	-220	1091	5786	3695	3462	4374	2893	2651	
1961 Federal Surplus/Deficit	3144	760	-120	566	207	-84	1503	1855	1961	2693	2682	4195	6971	2434	2011	
1962 Federal Surplus/Deficit	2201	1268	-488	479	-28	-831	1378	-1182	-821	4080	4396	3617	3504	3120	1227	
1963 Federal Surplus/Deficit	2663	1693	-251	990	626	1570	1719	396	319	326	606	4424	4135	2838	1618	
1964 Federal Surplus/Deficit	3372	1908	201	300	29	-460	1246	-415	-862	1397	1478	3206	7063	5182	1631	
1965 Federal Surplus/Deficit	2882	2604	810	1395	168	3173	5528	4004	2963	2418	4274	5470	4925	2390	3076	
1966 Federal Surplus/Deficit	2945	2371	157	920	217	744	2369	-671	-561	3133	1330	3531	2958	3211	1480	
1967 Federal Surplus/Deficit	3188	1513	-389	371	-28	-111	2787	3417	424	2065	821	2280	6617	4487	1971	
1968 Federal Surplus/Deficit	2947	2276	260	733	104	582	2272	1477	1241	-1019	702	2386	4762	4135	1700	
1969 Federal Surplus/Deficit	3110	2415	1222	1515	1002	1451	4337	2954	1710	4915	4422	6549	4633	3073	2990	
1970 Federal Surplus/Deficit	3039	1113	-208	504	98	-296	1855	1403	-327	-535	1526	3455	5102	1208	1280	
1971 Federal Surplus/Deficit	1842	759	-487	489	189	-420	3539	4983	2464	3151	3894	6903	6835	4368	2807	
1972 Federal Surplus/Deficit	3065	3298	425	581	111	724	3341	4591	5065	5427	2364	6605	7280	4804	3384	
1973 Federal Surplus/Deficit	3621	2994	882	752	-24	965	2726	-1851	-927	-1150	-1093	595	2150	1541	750	
1974 Federal Surplus/Deficit	1735	59	-582	105	-325	1765	6019	4944	3799	4712	5341	6020	7408	6045	3427	
1975 Federal Surplus/Deficit	3128	3270	830	258	-6.6	-189	2141	965	2480	1498	1759	4355	5560	5067	2191	
1976 Federal Surplus/Deficit	1945	1229	199	1166	1269	4092	4370	2827	1889	4653	3443	6109	3630	4609	2983	
1977 Federal Surplus/Deficit	4540	4204	3397	910	0.1	-553	316	-2230	-1616	-1306	-1630	452	756	351	391	
1978 Federal Surplus/Deficit	1767	-119	-606	-66	-213	-387	1441	-179	2353	1513	2262	3878	3290	3225	1287	
-Ranked Averages-																
Top Ten Percent	2555	2353	184	928	453	2392	4874	3914	3590	4040	4402	6110	6048	4198	3281	
Middle Eighty Percent	2572	1488	168	742	184	407	1721	518	748	1798	2167	4162	4674	3007	1695	
Bottom Ten Percent	2253	925	-352	392	50	-688	-1212	-1955	-969	-546	-1130	-135	1534	1189	-116	

Section 7
Monthly Regional 50 Water Year
Surplus/Deficit
Average Energy in Megawatts

<div> <div>Regional Surplus/Deficit by Water Year</div> <div>PNW Loads and Resources Study</div> <div>2004 - 2005 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	7206	3415	2140	3749	3577	1596	2029	-1613	449	206	718	-174	5277	4685	2291
1930 Regional Surplus/Deficit	3888	2447	1536	3506	3171	1305	-849	614	458	871	756	-745	3848	4692	1793
1931 Regional Surplus/Deficit	4592	2830	1800	3482	3234	1099	-560	-1684	241	1126	231	-554	2995	3440	1490
1932 Regional Surplus/Deficit	4211	1919	1589	3170	3008	1180	-338	-1495	3198	6984	10654	8808	10084	7240	4027
1933 Regional Surplus/Deficit	7270	5498	2211	3727	3895	3568	7282	4997	600	3017	4180	6021	14323	12549	5763
1934 Regional Surplus/Deficit	6905	6914	3545	6861	6982	11705	13602	10293	7372	11928	10760	7974	3475	5839	7992
1935 Regional Surplus/Deficit	3552	1364	1417	3512	3960	2858	6724	6948	-392	1893	5060	4968	8071	7217	4268
1936 Regional Surplus/Deficit	6112	3488	1847	3538	3177	1164	290	-1321	981	862	5225	11086	7411	4900	3410
1937 Regional Surplus/Deficit	5522	2652	1741	3489	3115	1408	-778	-1557	331	925	696	-213	4258	4285	1748
1938 Regional Surplus/Deficit	4867	1943	1608	4059	3968	2356	8054	1779	4813	5720	7366	9861	8725	6662	5153
1939 Regional Surplus/Deficit	4540	2288	2482	3829	3481	1795	3758	-666	1603	2252	3955	6997	4322	5368	3291
1940 Regional Surplus/Deficit	5883	2792	1694	3957	3088	2238	2282	1368	5353	3838	5208	4136	4762	3392	3427
1941 Regional Surplus/Deficit	3984	2101	1509	3610	2958	2488	2860	-1094	535	-99	730	472	4201	2643	1962
1942 Regional Surplus/Deficit	3795	2213	1926	3359	2423	5723	7005	46	-600	1283	2905	3913	10043	8061	3916
1943 Regional Surplus/Deficit	6921	5391	2132	3543	3812	2959	6633	5406	6088	12168	10860	9868	10690	9652	6538
1944 Regional Surplus/Deficit	7189	5628	2402	4001	3539	1901	2946	-1088	-212	233	409	-942	2583	2472	2028
1945 Regional Surplus/Deficit	4090	1498	1557	2848	2825	1322	-249	-304	183	488	781	4702	8632	5385	2527
1946 Regional Surplus/Deficit	4392	3487	1607	4120	3912	2418	4994	4426	6531	7047	9335	10596	9575	8383	5724
1947 Regional Surplus/Deficit	7416	5079	2778	3927	4163	7904	8617	7269	7019	4641	7610	8054	8567	7237	6492
1948 Regional Surplus/Deficit	7364	3819	2497	8804	6125	5324	8513	2366	3692	4581	8452	11887	15299	9288	7159
1949 Regional Surplus/Deficit	7069	7903	4197	4610	3785	2920	4042	2351	8519	4754	10305	10305	8583	4436	5730
1950 Regional Surplus/Deficit	4565	1731	1376	4072	4152	1707	5575	7790	9990	9241	9384	8176	14102	10517	6660
1951 Regional Surplus/Deficit	6809	7356	3307	6521	7481	10284	11535	12123	7832	9160	10176	10573	7770	9487	8639
1952 Regional Surplus/Deficit	6988	7002	3813	7677	4494	6436	7795	5344	5167	8792	10236	12060	9132	6232	7055
1953 Regional Surplus/Deficit	6980	3553	2225	3554	3434	1474	4440	7197	1557	567	4032	8031	13402	9910	5233
1954 Regional Surplus/Deficit	7502	5294	2828	4480	4192	4995	6719	7764	4685	8017	6729	8770	12368	11900	6873
1955 Regional Surplus/Deficit	9150	7641	7772	5629	5402	4500	2009	-307	-236	2613	1435	3583	14557	13421	5563
1956 Regional Surplus/Deficit	7096	7581	2707	6167	6369	9009	12521	6367	8777	9642	13094	12245	15369	10172	9034
1957 Regional Surplus/Deficit	7765	6413	2912	5222	3806	5331	5716	1512	3900	9761	7038	11440	14063	6132	6293
1958 Regional Surplus/Deficit	5239	2814	2029	4010	3559	2336	5405	5588	4611	2916	7816	10408	11332	5430	5342
1959 Regional Surplus/Deficit	5248	3401	2303	3959	5356	6510	11266	8126	4552	7219	6284	7118	12210	10667	6929
1960 Regional Surplus/Deficit	6885	5911	7769	10061	8032	7760	7526	2791	4433	12439	9135	6443	9626	7622	7437
1961 Regional Surplus/Deficit	7381	3606	2405	4125	4615	2971	6323	6810	5836	6639	6428	7250	13349	6586	6025
1962 Regional Surplus/Deficit	5510	3948	1634	3982	3661	1751	5598	618	512	9305	10437	6610	7623	7758	4529
1963 Regional Surplus/Deficit	6715	4682	2173	5094	5461	6489	5881	4506	2773	2832	3457	7651	8653	7227	5396
1964 Regional Surplus/Deficit	7665	5112	2933	3749	4225	2364	5665	1938	575	4730	4892	5931	14768	12455	5483
1965 Regional Surplus/Deficit	7363	6936	4297	5807	4257	9407	13262	10685	7689	6388	10452	9951	10524	7019	8206
1966 Regional Surplus/Deficit	7288	6608	3099	4850	4169	4392	7504	1240	1387	7524	4588	6304	6786	8106	5070
1967 Regional Surplus/Deficit	7200	4769	1950	3771	3828	3477	8448	9310	2751	6210	4000	4572	13735	10666	6133
1968 Regional Surplus/Deficit	6930	5927	3009	5079	4273	4292	7592	6360	5075	262	3305	4089	9909	9519	5617
1969 Regional Surplus/Deficit	7122	6595	5168	6485	6249	6202	11019	8197	5535	11233	10609	12097	9780	7690	8017
1970 Regional Surplus/Deficit	7214	3660	2439	4214	3983	2612	6736	5802	1535	1358	4542	6419	11021	4565	4809
1971 Regional Surplus/Deficit	4976	2910	1861	4079	4254	2679	10155	12785	7148	7845	9296	12287	14243	11341	7779
1972 Regional Surplus/Deficit	7810	8029	3499	4503	4481	4839	9692	12062	12836	13175	7624	11869	14976	11989	9089
1973 Regional Surplus/Deficit	8774	7471	4379	4590	3906	5529	7954	-481	561	-229	1152	768	4681	4455	3744
1974 Regional Surplus/Deficit	4087	1646	1292	3198	3530	7156	14709	12989	9683	10860	11938	11024	15484	14498	8986
1975 Regional Surplus/Deficit	8051	7977	4190	3515	3847	3470	7201	4428	6635	4376	5350	8284	12008	12297	6563
1976 Regional Surplus/Deficit	5790	4597	3203	5734	7012	11542	11748	8377	5787	10551	8715	11149	8590	11314	8274
1977 Regional Surplus/Deficit	10428	9704	8835	4658	3436	1806	2871	-1202	-740	-642	-410	-111	1825	2236	2763
1978 Regional Surplus/Deficit	4066	1512	1092	2463	3443	2773	5604	2418	6468	4672	6395	7584	7401	8449	4668
-Ranked Averages-															
Top Ten Percent	6318	5842	2801	5225	5775	8566	12041	10384	8983	10678	10309	11372	12438	11492	8804
Middle Eighty Percent	6465	4605	2943	4568	4205	3957	6288	4027	3695	5143	6249	7368	9873	7812	5497
Bottom Ten Percent	5035	3132	1798	3618	3203	1640	724	-962	270	611	564	-396	3577	3507	1804

<div> <div>Regional Surplus/Deficit by Water Year</div> <div>PNW Loads and Resources Study</div> <div>2005 - 2006 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	7178	3367	2238	3826	3498	1548	1901	-1876	264	609	913	-59	6219	3996	2299
1930 Regional Surplus/Deficit	3848	2400	1635	3579	3097	1261	-982	353	276	1272	944	-628	4801	4013	1803
1931 Regional Surplus/Deficit	4557	2785	1898	3553	3158	1058	-693	-1945	58	1529	425	-433	3956	2768	1502
1932 Regional Surplus/Deficit	4176	1874	1689	3244	2931	1132	-472	-1756	3010	7398	10877	8943	11046	6559	4041
1933 Regional Surplus/Deficit	7239	5456	2311	3804	3817	3523	7171	4760	422	3439	4386	6160	15281	11885	5783
1934 Regional Surplus/Deficit	6876	6883	3652	6946	6903	11671	13500	10063	7205	12347	10974	8127	4428	5165	8017
1935 Regional Surplus/Deficit	3515	1318	1522	3586	3881	2811	6611	6714	-564	2300	5262	5093	9021	6543	4285
1936 Regional Surplus/Deficit	6084	3445	1949	3615	3103	1123	162	-1582	797	1270	5412	11222	8375	4221	3424
1937 Regional Surplus/Deficit	5486	2605	1838	3564	3041	1366	-909	-1815	150	1331	889	-103	5202	3604	1758
1938 Regional Surplus/Deficit	4832	1899	1707	4134	3895	2310	7940	1530	4634	6133	7567	10002	9673	5980	5168
1939 Regional Surplus/Deficit	4504	2236	2582	3905	3402	1745	3640	-924	1418	2656	4146	7125	5275	4687	3302
1940 Regional Surplus/Deficit	5851	2745	1792	4034	3015	2193	2153	1105	5176	4237	5417	4254	5713	2712	3439
1941 Regional Surplus/Deficit	3946	2055	1608	3686	2882	2444	2727	-1356	351	312	938	595	5147	1953	1972
1942 Regional Surplus/Deficit	3754	2165	2022	3431	2342	5671	6901	-214	-784	1683	3097	4034	10998	7386	3928
1943 Regional Surplus/Deficit	6894	5349	2230	3620	3732	2906	6511	5141	5904	12576	11058	10010	11635	8964	6549
1944 Regional Surplus/Deficit	7156	5589	2497	4076	3460	1848	2818	-1353	-396	633	608	-820	3527	1778	2036
1945 Regional Surplus/Deficit	4050	1448	1656	2921	2747	1275	-386	-570	-2.2	889	971	4817	9578	4704	2535
1946 Regional Surplus/Deficit	4350	3440	1704	4192	3834	2367	4861	4168	6353	7462	9538	10741	10542	7703	5738
1947 Regional Surplus/Deficit	7389	5037	2876	4000	4082	7841	8510	7013	6846	5059	7818	8185	9532	6556	6508
1948 Regional Surplus/Deficit	7331	3770	2594	8891	6043	5281	8394	2103	3519	4997	8659	12024	16262	8620	7176
1949 Regional Surplus/Deficit	7038	7870	4297	4688	3706	2869	3921	2087	8339	5161	10514	10433	9542	3749	5744
1950 Regional Surplus/Deficit	4524	1680	1473	4145	4073	1660	5457	7537	9818	9647	9592	8316	15062	9835	6675
1951 Regional Surplus/Deficit	6774	7320	3404	6600	7396	10240	11430	11880	7654	9570	10388	10717	8722	8811	8657
1952 Regional Surplus/Deficit	6958	6966	3915	7760	4417	6384	7679	5090	4984	9193	10431	12196	10084	5548	7069
1953 Regional Surplus/Deficit	6948	3503	2322	3628	3357	1428	4299	6947	1381	984	4233	8168	14353	9228	5245
1954 Regional Surplus/Deficit	7473	5253	2927	4558	4116	4946	6601	7519	4511	8432	6925	8914	13343	11230	6892
1955 Regional Surplus/Deficit	9127	7607	7888	5712	5326	4459	1882	-568	-417	3019	1640	3710	15528	12761	5582
1956 Regional Surplus/Deficit	7066	7548	2806	6247	6287	8960	12414	6117	8594	10061	13301	12383	16334	9497	9052
1957 Regional Surplus/Deficit	7735	6375	3010	5299	3726	5279	5597	1246	3718	10167	7245	11577	15028	5445	6307
1958 Regional Surplus/Deficit	5200	2764	2126	4084	3481	2283	5285	5328	4441	3325	8017	10535	12300	4740	5355
1959 Regional Surplus/Deficit	5209	3353	2401	4035	5274	6459	11155	7889	4372	7641	6496	7262	13176	9991	6947
1960 Regional Surplus/Deficit	6856	5873	7881	10146	7951	7721	7424	2539	4252	12867	9358	6583	10583	6944	7458
1961 Regional Surplus/Deficit	7353	3557	2506	4204	4538	2923	6209	6562	5666	7063	6639	7401	14327	5910	6046
1962 Regional Surplus/Deficit	5477	3905	1732	4060	3582	1703	5480	361	328	9712	10656	6749	8578	7079	4544
1963 Regional Surplus/Deficit	6686	4638	2271	5169	5380	6441	5768	4247	2589	3241	3664	7772	9601	6549	5409
1964 Regional Surplus/Deficit	7637	5068	3033	3825	4145	2314	5548	1687	392	5127	5096	6060	15723	11789	5498
1965 Regional Surplus/Deficit	7333	6898	4398	5890	4181	9344	13151	10435	7509	6798	10653	10084	11464	6326	8218
1966 Regional Surplus/Deficit	7256	6565	3196	4927	4092	4338	7388	993	1203	7943	4794	6436	7743	7435	5086
1967 Regional Surplus/Deficit	7175	4722	2048	3847	3750	3429	8335	9071	2579	6637	4209	4700	14697	9988	6151
1968 Regional Surplus/Deficit	6901	5890	3110	5155	4195	4240	7474	6109	4901	666	3513	4208	10868	8842	5632
1969 Regional Surplus/Deficit	7094	6557	5272	6565	6168	6156	10904	7954	5350	11650	10821	12238	10751	7009	8036
1970 Regional Surplus/Deficit	7181	3615	2537	4292	3906	2562	6603	5546	1357	1774	4762	6545	11962	3875	4821
1971 Regional Surplus/Deficit	4939	2858	1954	4151	4172	2623	10029	12537	6964	8251	9504	12422	15195	10663	7791
1972 Regional Surplus/Deficit	7781	7995	3598	4578	4401	4786	9569	11815	12663	13601	7839	12005	15932	11326	9107
1973 Regional Surplus/Deficit	8749	7438	4480	4667	3826	5476	7832	-744	377	180	1358	885	5635	3773	3756
1974 Regional Surplus/Deficit	4051	1598	1390	3268	3446	7097	14598	12748	9506	11272	12146	11157	16442	13832	9001
1975 Regional Surplus/Deficit	8021	7945	4292	3589	3766	3417	7082	4179	6453	4792	5555	8417	12951	11619	6577
1976 Regional Surplus/Deficit	5755	4550	3301	5811	6927	11493	11636	8133	5607	10962	8923	11282	9536	10644	8289
1977 Regional Surplus/Deficit	10409	9673	8954	4737	3357	1756	2745	-1465	-922	-237	-207	18	2777	1554	2778
1978 Regional Surplus/Deficit	4029	1466	1191	2535	3362	2712	5474	2152	6292	5094	6608	7720	8346	7765	4679
-Ranked Averages-															
Top Ten Percent	6285	5802	2900	5301	5691	8515	11930	10139	8805	11093	10519	11509	13393	10822	8821
Middle Eighty Percent	6433	4562	3043	4645	4127	3908	6168	3773	3516	5555	6454	7501	10830	7133	5512
Bottom Ten Percent	4999	3087	1895	3692	3127	1595	592	-1223	88	1016	761	-278	4526	2823	1814

Regional Surplus/Deficit by Water Year PNW Loads and Resources Study 2006 - 2007 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	6483	3308	2263	3431	3152	1051	1166	-2382	-251	-301	-164	-1552	4185	3776	1625
1930 Regional Surplus/Deficit	3139	2341	1661	3181	2755	766	-1726	-147	-238	365	-134	-2124	2769	3798	1129
1931 Regional Surplus/Deficit	3852	2729	1923	3153	2815	564	-1436	-2449	-457	625	-656	-1925	1926	2554	829
1932 Regional Surplus/Deficit	3473	1819	1715	2845	2588	631	-1217	-2261	2501	6506	9827	7471	9027	6348	3372
1933 Regional Surplus/Deficit	6538	5400	2338	3409	3474	3026	6451	4279	-87	2542	3317	4677	13271	11687	5119
1934 Regional Surplus/Deficit	6176	6834	3685	6559	6560	11196	12796	9592	6711	11468	9928	6660	2389	4950	7359
1935 Regional Surplus/Deficit	2812	1263	1551	3187	3536	2312	5889	6236	-1071	1399	4198	3607	6992	6334	3617
1936 Regional Surplus/Deficit	5386	3390	1976	3219	2760	628	-575	-2087	283	361	4348	9750	6350	4007	2755
1937 Regional Surplus/Deficit	4781	2546	1863	3167	2699	870	-1651	-2318	-364	423	-188	-1602	3163	3386	1083
1938 Regional Surplus/Deficit	4128	1845	1733	3737	3554	1814	7217	1040	4131	5236	6505	8531	7645	5769	4502
1939 Regional Surplus/Deficit	3796	2170	2610	3511	3058	1248	2914	-1424	908	1755	3079	5646	3239	4471	2632
1940 Regional Surplus/Deficit	5150	2688	1818	3640	2673	1696	1417	605	4676	3335	4363	2770	3679	2495	2770
1941 Regional Surplus/Deficit	3240	2000	1633	3291	2540	1950	1987	-1859	-163	-589	-127	-893	3113	1732	1300
1942 Regional Surplus/Deficit	3044	2106	2047	3033	1999	5175	6189	-714	-1300	779	2029	2549	8977	7180	3260
1943 Regional Surplus/Deficit	6195	5291	2257	3225	3387	2408	5790	4649	5404	11691	10005	8540	9613	8757	5885
1944 Regional Surplus/Deficit	6449	5531	2521	3681	3114	1351	2083	-1859	-914	-277	-466	-2311	1490	1555	1361
1945 Regional Surplus/Deficit	3340	1388	1681	2522	2402	777	-1131	-1074	-519	-20	-110	3336	7553	4493	1862
1946 Regional Surplus/Deficit	3638	3378	1729	3793	3490	1872	4128	3676	5855	6566	8482	9274	8520	7493	5072
1947 Regional Surplus/Deficit	6689	4981	2904	3605	3739	7345	7800	6530	6349	4162	6756	6711	7513	6347	5845
1948 Regional Surplus/Deficit	6627	3706	2622	8509	5700	4792	7678	1607	3019	4096	7600	10561	14256	8422	6515
1949 Regional Surplus/Deficit	6334	7819	4327	4295	3362	2370	3195	1586	7846	4264	9460	8960	7514	3531	5077
1950 Regional Surplus/Deficit	3814	1616	1497	3748	3729	1164	4733	7050	9329	8756	8537	6842	13051	9631	6011
1951 Regional Surplus/Deficit	6065	7265	3431	6212	7051	9757	10723	11411	7159	8679	9335	9250	6692	8607	7997
1952 Regional Surplus/Deficit	6254	6911	3945	7375	4074	5892	6960	4606	4479	8302	9377	10733	8060	5337	6407
1953 Regional Surplus/Deficit	6244	3436	2347	3231	3014	932	3559	6467	876	81	3164	6688	12337	9023	4578
1954 Regional Surplus/Deficit	6769	5193	2955	4165	3773	4449	5879	7040	4008	7537	5862	7444	11329	11030	6229
1955 Regional Surplus/Deficit	8431	7555	7931	5323	4983	3967	1147	-1072	-932	2119	581	2220	13520	12567	4916
1956 Regional Surplus/Deficit	6365	7497	2834	5858	5941	8475	11708	5636	8098	9174	12256	10919	14326	9293	8394
1957 Regional Surplus/Deficit	7032	6317	3038	4907	3382	4784	4872	746	3215	9275	6187	10115	13018	5230	5643
1958 Regional Surplus/Deficit	4491	2697	2151	3689	3137	1785	4559	4837	3943	2423	6956	9062	10288	4523	4688
1959 Regional Surplus/Deficit	4499	3293	2427	3642	4930	5967	10445	7416	3867	6748	5434	5787	11164	9785	6285
1960 Regional Surplus/Deficit	6155	5817	7923	9765	7610	7235	6713	2048	3749	11990	8303	5102	8560	6734	6798
1961 Regional Surplus/Deficit	6653	3494	2535	3811	4195	2424	5485	6081	5168	6168	5572	5929	12317	5696	5382
1962 Regional Surplus/Deficit	4774	3849	1757	3666	3237	1204	4754	-133	-187	8817	9608	5269	6550	6870	3876
1963 Regional Surplus/Deficit	5985	4579	2297	4778	5037	5950	5049	3762	2076	2342	2602	6291	7581	6340	4743
1964 Regional Surplus/Deficit	6936	5007	3062	3430	3800	1815	4822	1195	-123	4224	4027	4578	13713	11594	4832
1965 Regional Surplus/Deficit	6629	6842	4430	5502	3840	8850	12446	9964	7012	5901	9600	8614	9442	6113	7558
1966 Regional Surplus/Deficit	6550	6502	3226	4536	3751	3841	6667	505	690	7057	3732	4957	5714	7227	4420
1967 Regional Surplus/Deficit	6478	4663	2073	3452	3405	2932	7616	8597	2075	5742	3139	3216	12687	9784	5488
1968 Regional Surplus/Deficit	6201	5836	3139	4763	3852	3743	6752	5628	4400	-241	2448	2719	8852	8633	4967
1969 Regional Surplus/Deficit	6395	6501	5308	6177	5825	5665	10194	7482	4847	10764	9770	10775	8734	6799	7377
1970 Regional Surplus/Deficit	6476	3555	2563	3900	3562	2063	5872	5063	850	870	3701	5062	9938	3660	4153
1971 Regional Surplus/Deficit	4229	2791	1978	3755	3827	2127	9313	12069	6466	7356	8450	10958	13184	10461	7129
1972 Regional Surplus/Deficit	7079	7943	3627	4185	4057	4289	8851	11345	12178	12720	6781	10541	13923	11130	8449
1973 Regional Surplus/Deficit	8051	7386	4510	4274	3481	4981	7112	-1246	-137	-724	290	-608	3603	3556	3086
1974 Regional Surplus/Deficit	3346	1539	1414	2868	3101	6601	13896	12280	9016	10386	11099	9689	14434	13639	8344
1975 Regional Surplus/Deficit	7318	7891	4324	3194	3421	2919	6360	3694	5952	3895	4489	6940	10932	11421	5913
1976 Regional Surplus/Deficit	5046	4485	3331	5420	6583	11014	10929	7657	5110	10077	7867	9815	7508	10443	7629
1977 Regional Surplus/Deficit	9714	9622	9000	4347	3011	1259	2012	-1970	-1439	-1148	-1280	-1473	739	1332	2106
1978 Regional Surplus/Deficit	3324	1410	1216	2135	3016	2210	4743	1655	5795	4201	5546	6243	6315	7556	4011
-Ranked Averages-															
Top Ten Percent	5580	5746	2928	4908	5347	8027	11221	9666	8312	10207	9467	10043	11377	10623	8163
Middle Eighty Percent	5730	4504	3072	4252	3783	3413	5444	3284	3011	4657	5393	6024	8809	6924	4846
Bottom Ten Percent	4292	3029	1920	3295	2785	1100	-148	-1727	-427	110	-314	-1771	2492	2605	1140

Regional Surplus/Deficit by Water Year PNW Loads and Resources Study 2007 - 2008 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	6628	2783	1626	3157	2877	679	819	-2364	-307	-43	342	-846	5252	4103	1654
1930 Regional Surplus/Deficit	3268	1817	1025	2901	2488	398	-2084	-124	-290	624	365	-1418	3847	4131	1159
1931 Regional Surplus/Deficit	3989	2209	1286	2872	2547	200	-1793	-2429	-509	885	-153	-1212	3015	2888	861
1932 Regional Surplus/Deficit	3608	1294	1081	2568	2317	257	-1577	-2241	2445	6785	10377	8209	10122	6690	3409
1933 Regional Surplus/Deficit	6682	4887	1703	3136	3202	2656	6128	4336	-133	2826	3837	5412	14368	12052	5165
1934 Regional Surplus/Deficit	6322	6337	3061	6298	6287	10849	12490	9662	6685	11764	10472	7417	3465	5284	7412
1935 Regional Surplus/Deficit	2945	739	921	2909	3262	1939	5563	6297	-1110	1665	4719	4327	8069	6679	3658
1936 Regional Surplus/Deficit	5534	2870	1343	2945	2493	264	-923	-2066	229	625	4855	10490	7443	4343	2792
1937 Regional Surplus/Deficit	4917	2022	1225	2891	2432	504	-2006	-2295	-414	685	316	-905	4229	3716	1112
1938 Regional Surplus/Deficit	4263	1325	1098	3460	3287	1444	6889	1079	4087	5512	7025	9277	8722	6111	4543
1939 Regional Surplus/Deficit	3931	1643	1976	3236	2785	874	2581	-1397	854	2018	3586	6371	4316	4803	2666
1940 Regional Surplus/Deficit	5293	2165	1181	3368	2407	1327	1068	626	4636	3594	4895	3483	4756	2825	2804
1941 Regional Surplus/Deficit	3372	1476	997	3016	2271	1583	1632	-1839	-217	-318	398	-175	4184	2056	1331
1942 Regional Surplus/Deficit	3173	1582	1407	2753	1725	4799	5878	-691	-1356	1036	2536	3265	10064	7531	3295
1943 Regional Surplus/Deficit	6346	4777	1620	2950	3113	2029	5456	4673	5358	11972	10530	9287	10692	9094	5924
1944 Regional Surplus/Deficit	6592	5023	1880	3406	2839	974	1736	-1843	-971	-22	46	-1597	2557	1875	1390
1945 Regional Surplus/Deficit	3469	861	1044	2242	2130	406	-1493	-1059	-575	236	388	4048	8629	4833	1890
1946 Regional Surplus/Deficit	3766	2857	1090	3513	3218	1498	3775	3707	5817	6845	9009	10025	9618	7838	5111
1947 Regional Surplus/Deficit	6839	4466	2269	3328	3464	6958	7488	6566	6315	4442	7284	7445	8611	6691	5888
1948 Regional Surplus/Deficit	6768	3183	1985	8252	5424	4428	7350	1630	2983	4372	8128	11307	15361	8787	6561
1949 Regional Surplus/Deficit	6481	7321	3694	4024	3088	1994	2859	1605	7809	4534	9994	9692	8599	3859	5116
1950 Regional Surplus/Deficit	3943	1086	857	3469	3456	793	4402	7088	9302	9030	9069	7584	14151	9981	6054
1951 Regional Surplus/Deficit	6205	6762	2795	5943	6770	9395	10412	11471	7122	8956	9873	9999	7771	8960	8045
1952 Regional Surplus/Deficit	6401	6407	3314	7113	3804	5519	6633	4644	4431	8573	9899	11478	9142	5679	6450
1953 Regional Surplus/Deficit	6389	2911	1708	2954	2743	563	3196	6513	835	356	3679	7423	13426	9372	4617
1954 Regional Surplus/Deficit	6917	4682	2321	3895	3503	4076	5548	7091	3970	7816	6377	8192	12439	11389	6277
1955 Regional Surplus/Deficit	8588	7056	7321	5058	4712	3604	800	-1051	-984	2385	1106	2938	14629	12936	4961
1956 Regional Surplus/Deficit	6511	6997	2199	5590	5663	8108	11397	5681	8056	9463	12795	11666	15430	9649	8444
1957 Regional Surplus/Deficit	7180	5810	2402	4635	3107	4408	4539	764	3169	9549	6716	10861	14123	5564	5683
1958 Regional Surplus/Deficit	4625	2171	1513	3413	2866	1407	4224	4865	3912	2691	7476	9793	11393	4852	4727
1959 Regional Surplus/Deficit	4632	2770	1790	3369	4654	5594	10129	7478	3821	7034	5965	6533	12268	10135	6331
1960 Regional Surplus/Deficit	6303	5310	7309	9507	7336	6876	6404	2085	3703	12293	8848	5839	9648	7077	6847
1961 Regional Surplus/Deficit	6802	2968	1903	3540	3925	2051	5156	6127	5136	6455	6099	6683	13432	6034	5429
1962 Regional Surplus/Deficit	4912	3330	1119	3394	2963	829	4422	-101	-242	9089	10155	6006	7632	7217	3915
1963 Regional Surplus/Deficit	6133	4062	1660	4506	4764	5580	4725	3795	2022	2613	3127	7009	8662	6685	4781
1964 Regional Surplus/Deficit	7084	4491	2429	3156	3526	1441	4491	1232	-176	4481	4546	5304	14810	11960	4873
1965 Regional Surplus/Deficit	6778	6337	3800	5237	3572	8465	12132	10016	6972	6173	10129	9354	10516	6447	7602
1966 Regional Surplus/Deficit	6699	5993	2590	4264	3481	3463	6339	549	636	7344	4257	5688	6799	7574	4461
1967 Regional Surplus/Deficit	6630	4140	1437	3178	3133	2560	7292	8658	2039	6033	3663	3942	13789	10138	5533
1968 Regional Surplus/Deficit	6351	5331	2507	4491	3581	3366	6422	5672	4363	19	2973	3431	9949	8979	5008
1969 Regional Surplus/Deficit	6546	5995	4683	5910	5549	5298	9874	7539	4799	11052	10309	11524	9838	7142	7426
1970 Regional Surplus/Deficit	6618	3035	1927	3628	3290	1687	5522	5101	805	1142	4239	5784	11010	3990	4189
1971 Regional Surplus/Deficit	4365	2264	1334	3476	3550	1747	8978	12125	6421	7627	8984	11703	14277	10811	7170
1972 Regional Surplus/Deficit	7230	7445	2993	3911	3782	3911	8517	11400	12153	13021	7317	11286	15021	11496	8498
1973 Regional Surplus/Deficit	8207	6888	3878	4002	3206	4604	6779	-1226	-191	-456	812	99	4684	3886	3121
1974 Regional Surplus/Deficit	3481	1013	776	2584	2822	6218	13583	12342	8984	10670	11638	10430	15533	14004	8390
1975 Regional Surplus/Deficit	7468	7395	3693	2918	3145	2540	6028	3737	5908	4174	5009	7673	12010	11776	5954
1976 Regional Surplus/Deficit	5187	3970	2696	5148	6304	10650	10613	7711	5070	10361	8398	10557	8581	10801	7674
1977 Regional Surplus/Deficit	9878	9130	8394	4077	2736	885	1667	-1952	-1494	-888	-764	-752	1814	1656	2143
1978 Regional Surplus/Deficit	3457	886	579	1854	2741	1822	4396	1675	5761	4488	6078	6981	7386	7899	4046
-Ranked Averages-															
Top Ten Percent	5723	5237	2292	4635	5068	7656	10904	9721	8277	10494	10004	10788	12467	10982	8210
Middle Eighty Percent	5874	3988	2439	3980	3511	3039	5111	3320	2966	4931	5918	6757	9898	7268	4887
Bottom Ten Percent	4428	2509	1283	3017	2515	732	-503	-1706	-480	371	194	-1061	3566	2933	1171

<div> <div>Regional Surplus/Deficit by Water Year</div> <div>PNW Loads and Resources Study</div> <div>2008 - 2009 Operating Year</div> <div>2003 White Book</div> </div> <div>3/31/2004</div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	6545	2700	1567	2859	2285	128	392	-3115	-737	-458	-339	-2049	4108	3654	1110
1930 Regional Surplus/Deficit	3180	1735	965	2600	1898	-152	-2517	-872	-719	211	-317	-2622	2703	3685	614
1931 Regional Surplus/Deficit	3903	2128	1226	2570	1956	-350	-2225	-3180	-939	474	-836	-2414	1872	2442	316
1932 Regional Surplus/Deficit	3522	1212	1021	2267	1726	-297	-2009	-2992	2018	6377	9712	7018	8985	6245	2866
1933 Regional Surplus/Deficit	6598	4809	1645	2838	2612	2105	5711	3599	-559	2418	3163	4219	13233	11610	4626
1934 Regional Surplus/Deficit	6238	6262	3007	6004	5697	10310	12074	8928	6266	11361	9807	6227	2318	4837	6875
1935 Regional Surplus/Deficit	2859	657	865	2608	2671	1387	5144	5563	-1535	1255	4048	3130	6929	6235	3117
1936 Regional Surplus/Deficit	5450	2791	1285	2646	1902	-286	-1350	-2817	-200	213	4183	9299	6305	3896	2250
1937 Regional Surplus/Deficit	4831	1941	1166	2591	1842	-46	-2436	-3045	-843	273	-364	-2111	3082	3268	567
1938 Regional Surplus/Deficit	4177	1246	1039	3160	2697	893	6470	337	3665	5104	6355	8087	7583	5666	4003
1939 Regional Surplus/Deficit	3845	1561	1919	2938	2193	323	2161	-2145	427	1608	2912	5177	3170	4356	2123
1940 Regional Surplus/Deficit	5208	2084	1122	3069	1818	776	640	-123	4214	3183	4228	2286	3611	2378	2262
1941 Regional Surplus/Deficit	3286	1395	938	2718	1682	1033	1203	-2589	-646	-727	-275	-1374	3040	1607	788
1942 Regional Surplus/Deficit	3086	1501	1348	2454	1135	4248	5463	-1438	-1786	625	1862	2067	8926	7087	2753
1943 Regional Surplus/Deficit	6262	4699	1562	2652	2521	1477	5037	3930	4936	11567	9862	8097	9554	8649	5384
1944 Regional Surplus/Deficit	6508	4945	1820	3108	2246	422	1310	-2595	-1402	-437	-633	-2798	1410	1425	845
1945 Regional Surplus/Deficit	3382	778	984	1941	1538	-146	-1926	-1810	-1006	-178	-294	2853	7490	4388	1346
1946 Regional Surplus/Deficit	3678	2778	1031	3213	2627	947	3350	2964	5396	6437	8340	8835	8482	7393	4571
1947 Regional Surplus/Deficit	6755	4388	2212	3029	2872	6406	7073	5828	5894	4034	6615	6254	7475	6247	5349
1948 Regional Surplus/Deficit	6683	3102	1927	7959	4833	3881	6933	884	2562	3963	7459	10117	14225	8346	6023
1949 Regional Surplus/Deficit	6397	7246	3638	3727	2497	1442	2438	857	7389	4126	9327	8499	7460	3412	4576
1950 Regional Surplus/Deficit	3856	1003	797	3169	2865	243	3982	6347	8884	8623	8401	6394	13016	9538	5515
1951 Regional Surplus/Deficit	6120	6685	2737	5648	6178	8851	9997	10737	6702	8549	9206	8809	6632	8517	7507
1952 Regional Surplus/Deficit	6317	6331	3258	6819	3214	4970	6216	3906	4007	8166	9230	10288	8003	5235	5911
1953 Regional Surplus/Deficit	6305	2830	1649	2655	2152	12	2766	5777	412	-53	3006	6230	12289	8928	4076
1954 Regional Surplus/Deficit	6833	4604	2263	3598	2912	3524	5130	6355	3548	7409	5706	7002	11304	10948	5738
1955 Regional Surplus/Deficit	8506	6981	7270	4763	4122	3055	373	-1801	-1414	1975	437	1740	13494	12494	4420
1956 Regional Surplus/Deficit	6427	6921	2141	5295	5071	7563	10981	4944	7635	9059	12130	10475	14295	9207	7906
1957 Regional Surplus/Deficit	7096	5733	2345	4339	2516	3858	4119	16	2746	9141	6047	9671	12988	5118	5144
1958 Regional Surplus/Deficit	4538	2088	1454	3115	2274	854	3803	4123	3492	2281	6806	8601	10258	4405	4186
1959 Regional Surplus/Deficit	4545	2690	1731	3072	4063	5046	9714	6744	3397	6628	5296	5343	11133	9692	5793
1960 Regional Surplus/Deficit	6219	5233	7258	9214	6746	6331	5989	1342	3279	11890	8182	4647	8510	6633	6309
1961 Regional Surplus/Deficit	6718	2886	1845	3243	3334	1498	4737	5390	4716	6049	5427	5493	12297	5588	4890
1962 Regional Surplus/Deficit	4827	3250	1060	3096	2371	276	4001	-846	-672	8681	9489	4813	6493	6773	3374
1963 Regional Surplus/Deficit	6049	3983	1601	4210	4173	5032	4308	3056	1592	2204	2455	5815	7524	6240	4241
1964 Regional Surplus/Deficit	7001	4412	2372	2857	2934	888	4070	489	-605	4070	3874	4110	13675	11519	4332
1965 Regional Surplus/Deficit	6694	6260	3744	4943	2982	7915	11716	9281	6552	5765	9461	8163	9378	6002	7064
1966 Regional Surplus/Deficit	6615	5915	2533	3968	2891	2911	5921	-193	207	6939	3586	4496	5659	7131	3921
1967 Regional Surplus/Deficit	6547	4058	1377	2880	2541	2009	6875	7924	1616	5627	2990	2748	12653	9696	4994
1968 Regional Surplus/Deficit	6268	5255	2449	4194	2991	2815	6004	4935	3942	-394	2300	2232	8813	8535	4469
1969 Regional Surplus/Deficit	6463	5919	4629	5616	4959	4750	9459	6805	4377	10647	9643	10334	8703	6698	6889
1970 Regional Surplus/Deficit	6533	2954	1868	3331	2699	1134	5099	4363	380	732	3570	4589	9871	3544	3648
1971 Regional Surplus/Deficit	4279	2181	1274	3177	2957	1195	8560	11391	5999	7219	8317	10513	13141	10368	6631
1972 Regional Surplus/Deficit	7147	7369	2936	3613	3191	3359	8099	10666	11735	12618	6649	10096	13886	11055	7961
1973 Regional Surplus/Deficit	8124	6813	3821	3705	2615	4054	6361	-1975	-621	-868	137	-1103	3540	3439	2578
1974 Regional Surplus/Deficit	3395	930	716	2283	2230	5666	13168	11609	8566	10266	10972	9240	14397	13563	7851
1975 Regional Surplus/Deficit	7384	7320	3637	2618	2553	1988	5609	2999	5485	3766	4339	6481	10872	11334	5415
1976 Regional Surplus/Deficit	5102	3891	2639	4852	5712	10108	10198	6976	4648	9956	7730	9367	7441	10359	7137
1977 Regional Surplus/Deficit	9797	9056	8345	3780	2144	333	1241	-2703	-1925	-1303	-1441	-1953	667	1205	1599
1978 Regional Surplus/Deficit	3370	804	520	1553	2149	1268	3972	929	5341	4082	5409	5789	6245	7455	3504
-Ranked Averages-															
Top Ten Percent	5638	5159	2234	4338	4477	7109	10489	8986	7857	10089	9337	9598	11330	10540	7672
Middle Eighty Percent	5789	3909	2382	3682	2919	2489	4691	2578	2542	4523	5248	5564	8760	6823	4347
Bottom Ten Percent	4342	2429	1223	2718	1925	182	-933	-2456	-910	-41	-485	-2264	2421	2485	626

<div> <div>Regional Surplus/Deficit by Water Year</div> <div>PNW Loads and Resources Study</div> <div>2009 - 2010 Operating Year</div> <div>2003 White Book</div> </div> <div>3/31/2004</div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	6155	2341	1243	2413	1937	-277	-16	-3545	-1278	-1598	-1017	-934	4101	3227	818
1930 Regional Surplus/Deficit	2786	1376	641	2152	1552	-556	-2931	-1299	-1259	-927	-996	-1508	2697	3258	322
1931 Regional Surplus/Deficit	3512	1770	901	2121	1610	-754	-2639	-3610	-1481	-662	-1516	-1298	1866	2017	24
1932 Regional Surplus/Deficit	3131	852	697	1819	1380	-704	-2424	-3422	1481	5244	9049	8145	8987	5820	2576
1933 Regional Surplus/Deficit	6207	4453	1322	2392	2266	1701	5311	3184	-1096	1286	2493	5344	13236	11189	4339
1934 Regional Surplus/Deficit	5849	5909	2687	5562	5351	9916	11677	8516	5736	10232	9144	7356	2308	4412	6591
1935 Regional Surplus/Deficit	2467	298	543	2160	2324	980	4743	5149	-2070	120	3379	4251	6926	5811	2829
1936 Regional Surplus/Deficit	5061	2434	963	2199	1557	-690	-1760	-3246	-739	-925	3514	10426	6305	3471	1961
1937 Regional Surplus/Deficit	4440	1582	842	2144	1496	-450	-2850	-3474	-1383	-866	-1041	-999	3072	2841	275
1938 Regional Surplus/Deficit	3786	889	715	2713	2352	490	6068	-84	3131	3971	5688	9216	7581	5242	3716
1939 Regional Surplus/Deficit	3453	1201	1596	2492	1846	-83	1758	-2572	-112	473	2240	6302	3162	3929	1834
1940 Regional Surplus/Deficit	4818	1725	798	2623	1473	371	230	-550	3682	2047	3563	3408	3604	1951	1972
1941 Regional Surplus/Deficit	2894	1036	614	2272	1337	630	791	-3018	-1187	-1861	-945	-255	3034	1179	497
1942 Regional Surplus/Deficit	2693	1143	1024	2006	789	3843	5065	-1864	-2327	-511	1192	3189	8926	6664	2464
1943 Regional Surplus/Deficit	5873	4344	1238	2206	2174	1072	4636	3509	4404	10436	9197	9226	9553	8224	5097
1944 Regional Surplus/Deficit	6117	4590	1496	2662	1898	17	901	-3026	-1944	-1578	-1308	-1681	1402	995	553
1945 Regional Surplus/Deficit	2988	418	660	1493	1191	-551	-2341	-2240	-1548	-1318	-974	3976	7489	3963	1054
1946 Regional Surplus/Deficit	3284	2421	707	2765	2280	543	2942	2542	4864	5304	7675	9964	8483	6969	4283
1947 Regional Surplus/Deficit	6366	4032	1890	2584	2525	6001	6675	5411	5363	2901	5949	7381	7477	5823	5063
1948 Regional Surplus/Deficit	6293	2744	1604	7519	4487	3480	6533	459	2030	2828	6794	11246	14226	7925	5737
1949 Regional Surplus/Deficit	6007	6893	3317	3283	2150	1036	2034	430	6858	2992	8663	9626	7459	2985	4288
1950 Regional Surplus/Deficit	3462	642	473	2721	2519	-161	3580	5928	8354	7490	7737	7522	13019	9115	5228
1951 Regional Surplus/Deficit	5729	6332	2414	5205	5832	8454	9599	10325	6170	7416	8542	9938	6630	8095	7223
1952 Regional Surplus/Deficit	5927	5977	2937	6378	2868	4568	5817	3488	3471	7033	8565	11417	8003	4810	5626
1953 Regional Surplus/Deficit	5915	2472	1325	2208	1806	-392	2354	5362	-123	-1187	2336	7356	12291	8505	3788
1954 Regional Surplus/Deficit	6444	4249	1941	3153	2567	3120	4729	5940	3015	6276	5038	8131	11307	10527	5453
1955 Regional Surplus/Deficit	8119	6628	6955	4320	3777	2652	-36	-2231	-1956	840	-229	2861	13497	12073	4133
1956 Regional Surplus/Deficit	6037	6567	1819	4852	4724	7164	10584	4529	7103	7929	11467	11604	14298	8784	7622
1957 Regional Surplus/Deficit	6706	5379	2022	3895	2169	3454	3716	-411	2212	8007	5381	10800	12991	4691	4856
1958 Regional Surplus/Deficit	4146	1728	1130	2669	1927	447	3399	3701	2962	1146	6139	9727	10261	3978	3898
1959 Regional Surplus/Deficit	4153	2332	1407	2627	3717	4643	9316	6331	2862	5495	4630	6471	11135	9268	5507
1960 Regional Surplus/Deficit	5829	4878	6942	8774	6400	5932	5591	920	2744	10762	7518	5773	8510	6209	6024
1961 Regional Surplus/Deficit	6329	2526	1523	2798	2988	1092	4334	4974	4184	4916	4758	6622	12300	5163	4604
1962 Regional Surplus/Deficit	4436	2893	735	2650	2023	-130	3598	-1269	-1214	7547	8827	5940	6492	6349	3085
1963 Regional Surplus/Deficit	5660	3627	1277	3766	3827	4631	3908	2638	1052	1069	1786	6939	7524	5816	3954
1964 Regional Surplus/Deficit	6611	4056	2050	2411	2587	482	3667	67	-1146	2934	3204	5236	13677	11098	4044
1965 Regional Surplus/Deficit	6305	5906	3424	4502	2637	7511	11319	8868	6020	4631	8796	9292	9377	5576	6779
1966 Regional Surplus/Deficit	6226	5560	2212	3524	2546	2506	5520	-613	-333	5808	2919	5622	5656	6707	3634
1967 Regional Surplus/Deficit	6158	3700	1054	2434	2194	1603	6475	7511	1083	4496	2320	3873	12656	9274	4708
1968 Regional Surplus/Deficit	5879	4900	2127	3750	2645	2410	5603	4520	3411	-1532	1631	3352	8816	8111	4182
1969 Regional Surplus/Deficit	6075	5565	4312	5174	4613	4348	9061	6392	3843	9517	8979	11462	8705	6273	6604
1970 Regional Surplus/Deficit	6143	2596	1545	2886	2352	728	4692	3947	-156	-403	2904	5713	9870	3118	3359
1971 Regional Surplus/Deficit	3887	1821	949	2730	2609	790	8160	10978	5466	6085	7652	11641	13143	9945	6345
1972 Regional Surplus/Deficit	6759	7016	2614	3167	2844	2953	7699	10253	11206	11489	5984	11224	13889	10634	7676
1973 Regional Surplus/Deficit	7736	6461	3500	3260	2268	3649	5960	-2404	-1162	-2005	-535	13	3535	3012	2288
1974 Regional Surplus/Deficit	3004	569	391	1834	1883	5261	12770	11196	8035	9135	10310	10368	14400	13142	7566
1975 Regional Surplus/Deficit	6995	6967	3316	2172	2205	1582	5207	2581	4952	2633	3671	7608	10872	10913	5128
1976 Regional Surplus/Deficit	4711	3535	2317	4409	5366	9712	9800	6562	4116	8825	7065	10496	7439	9937	6852
1977 Regional Surplus/Deficit	9409	8704	8030	3336	1796	-72	834	-3133	-2468	-2444	-2116	-836	658	774	1308
1978 Regional Surplus/Deficit	2978	445	196	1104	1801	860	3565	504	4809	2951	4744	6917	6243	7031	3216
-Ranked Averages-															
Top Ten Percent	5248	4804	1911	3894	4130	6709	10090	8573	7326	8959	8674	10726	11331	10118	7388
Middle Eighty Percent	5399	3553	2060	3237	2573	2084	4288	2157	2007	3389	4580	6689	8759	6399	4059
Bottom Ten Percent	3950	2071	899	2270	1579	-223	-1345	-2885	-1451	-1179	-1161	-1148	2414	2058	334

<div> <div>Regional Surplus/Deficit by Water Year</div> <div>PNW Loads and Resources Study</div> <div>2010 - 2011 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	5853	2000	807	2211	1533	-630	-398	-3872	-1501	-2075	-1526	-1960	3397	2944	388
1930 Regional Surplus/Deficit	2480	1035	205	1948	1150	-908	-3318	-1622	-1481	-1402	-1505	-2535	1992	2977	-107
1931 Regional Surplus/Deficit	3208	1430	464	1917	1208	-1106	-3025	-3936	-1703	-1134	-2026	-2323	1163	1735	-406
1932 Regional Surplus/Deficit	2827	511	260	1615	977	-1059	-2810	-3749	1261	4774	8553	7130	8288	5540	2149
1933 Regional Surplus/Deficit	5904	4116	887	2191	1863	1348	4938	2871	-1316	816	1991	4327	12539	10911	3914
1934 Regional Surplus/Deficit	5546	5574	2255	5365	4949	9574	11304	8205	5523	9765	8648	6341	1600	4130	6168
1935 Regional Surplus/Deficit	2163	-42	109	1956	1921	626	4368	4837	-2288	-352	2879	3231	6224	5531	2403
1936 Regional Surplus/Deficit	4758	2096	527	1997	1154	-1042	-2143	-3572	-961	-1399	3014	9411	5606	3189	1534
1937 Regional Surplus/Deficit	4136	1242	406	1941	1094	-802	-3235	-3799	-1605	-1340	-1549	-2027	2365	2559	-155
1938 Regional Surplus/Deficit	3482	550	279	2510	1951	138	5693	-402	2915	3501	5189	8201	6881	4961	3291
1939 Regional Surplus/Deficit	3149	861	1162	2291	1442	-436	1381	-2896	-332	1.2	1737	5284	2455	3648	1406
1940 Regional Surplus/Deficit	4515	1385	362	2422	1071	18	-153	-874	3467	1575	3066	2388	2899	1669	1545
1941 Regional Surplus/Deficit	2589	696	178	2071	935	279	406	-3343	-1409	-2332	-1446	-1278	2330	896	68
1942 Regional Surplus/Deficit	2388	803	587	1804	387	3490	4693	-2186	-2549	-983	690	2169	8227	6385	2038
1943 Regional Surplus/Deficit	5571	4006	803	2004	1770	718	4262	3190	4189	9967	8699	8211	8854	7944	4672
1944 Regional Surplus/Deficit	5814	4253	1060	2460	1494	-336	520	-3352	-2168	-2054	-1815	-2705	695	710	123
1945 Regional Surplus/Deficit	2683	77	223	1289	787	-905	-2728	-2566	-1772	-1794	-1484	2957	6789	3682	625
1946 Regional Surplus/Deficit	2978	2082	270	2561	1877	191	2561	2223	4650	4834	7177	8949	7784	6688	3858
1947 Regional Surplus/Deficit	6064	3694	1455	2382	2122	5648	6303	5096	5149	2430	5451	6365	6779	5542	4638
1948 Regional Surplus/Deficit	5989	2404	1168	7322	4084	3131	6160	138	1816	2357	6296	10231	13528	7646	5312
1949 Regional Surplus/Deficit	5704	6558	2884	3082	1747	681	1657	107	6644	2521	8166	8609	6759	2703	3862
1950 Regional Surplus/Deficit	3157	301	36	2518	2115	-512	3204	5612	8141	7020	7239	6507	12322	8836	4803
1951 Regional Surplus/Deficit	5426	5995	1980	5007	5429	8108	9227	10014	5956	6946	8046	8923	5930	7815	6799
1952 Regional Surplus/Deficit	5624	5640	2503	6180	2466	4217	5443	3174	3254	6563	8067	10402	7303	4530	5202
1953 Regional Surplus/Deficit	5612	2132	888	2005	1402	-744	1970	5048	-340	-1658	1835	6340	11592	8226	3362
1954 Regional Surplus/Deficit	6141	3912	1506	2953	2164	2767	4354	5627	2800	5806	4539	7116	10610	10248	5029
1955 Regional Surplus/Deficit	7817	6292	6526	4122	3375	2302	-418	-2556	-2179	369	-727	1839	12800	11795	3707
1956 Regional Surplus/Deficit	5734	6231	1384	4653	4320	6816	10212	4215	6888	7460	10971	10589	13601	8505	7198
1957 Regional Surplus/Deficit	6404	5042	1588	3695	1765	3102	3339	-734	1996	7537	4883	9785	12294	4410	4431
1958 Regional Surplus/Deficit	3842	1387	694	2467	1524	93	3022	3383	2748	675	5640	8711	9564	3696	3473
1959 Regional Surplus/Deficit	3848	1992	971	2426	3314	4293	8944	6020	2645	5026	4132	5456	10438	8989	5083
1960 Regional Surplus/Deficit	5527	4542	6513	8577	5998	5585	5219	601	2527	10294	7021	4756	7811	5929	5601
1961 Regional Surplus/Deficit	6027	2186	1089	2597	2585	738	3958	4661	3970	4446	4257	5607	11603	4882	4179
1962 Regional Surplus/Deficit	4132	2554	299	2449	1619	-485	3221	-1589	-1437	7076	8331	4923	5792	6069	2659
1963 Regional Surplus/Deficit	5357	3289	841	3567	3425	4280	3535	2323	830	598	1285	5921	6825	5536	3529
1964 Regional Surplus/Deficit	6309	3718	1615	2210	2183	128	3290	-253	-1368	2461	2703	4218	12980	10820	3618
1965 Regional Surplus/Deficit	6003	5569	2991	4304	2235	7160	10946	8556	5805	4160	8299	8277	8678	5295	6355
1966 Regional Surplus/Deficit	5924	5224	1778	3324	2144	2153	5146	-931	-555	5339	2419	4605	4955	6428	3208
1967 Regional Surplus/Deficit	5856	3359	617	2232	1791	1250	6102	7199	866	4027	1819	2856	11959	8995	4283
1968 Regional Surplus/Deficit	5577	4564	1693	3549	2243	2057	5229	4206	3196	-2006	1130	2330	8118	7831	3757
1969 Regional Surplus/Deficit	5773	5228	3881	4976	4210	3997	8688	6080	3628	9049	8483	10447	8008	5993	6181
1970 Regional Surplus/Deficit	5839	2256	1109	2686	1949	373	4313	3633	-375	-875	2405	4695	9170	2836	2933
1971 Regional Surplus/Deficit	3583	1480	512	2527	2205	437	7786	10667	5251	5615	7155	10626	12446	9666	5920
1972 Regional Surplus/Deficit	6457	6680	2180	2966	2441	2600	7324	9941	10994	11022	5487	10209	13191	10356	7252
1973 Regional Surplus/Deficit	7435	6125	3066	3059	1864	3297	5586	-2729	-1384	-2478	-1039	-1012	2831	2729	1861
1974 Regional Surplus/Deficit	2700	227	-46	1629	1479	4908	12398	10885	7822	8667	9814	9353	13702	12863	7141
1975 Regional Surplus/Deficit	6693	6631	2882	1970	1801	1228	4832	2266	4736	2162	3171	6592	10173	10635	4704
1976 Regional Surplus/Deficit	4408	3198	1883	4210	4963	9368	9428	6250	3902	8356	6567	9481	6739	9659	6429
1977 Regional Surplus/Deficit	9108	8369	7602	3136	1391	-425	453	-3459	-2692	-2921	-2622	-1861	-49	489	879
1978 Regional Surplus/Deficit	2673	104	-241	900	1398	505	3186	182	4595	2482	4246	5901	5542	6751	2789
-Ranked Averages-															
Top Ten Percent	4945	4466	1476	3693	3726	6360	9718	8261	7112	8490	8177	9711	10633	9840	6964
Middle Eighty Percent	5096	3214	1625	3036	2170	1732	3911	1838	1789	2918	4080	5672	8059	6118	3634
Bottom Ten Percent	3646	1731	462	2068	1176	-575	-1730	-3211	-1673	-1653	-1669	-2174	1709	1775	-95

<div> <div>Regional Surplus/Deficit by Water Year</div> <div>PNW Loads and Resources Study</div> <div>2011 - 2012 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	5511	1571	571	1834	1254	-1073	-687	-3903	-1519	-1438	-990	-2374	3917	2644	249
1930 Regional Surplus/Deficit	2137	607	-32	1569	872	-1351	-3611	-1650	-1499	-764	-970	-2950	2511	2677	-247
1931 Regional Surplus/Deficit	2866	1003	228	1538	930	-1548	-3317	-3967	-1722	-494	-1492	-2737	1681	1436	-545
1932 Regional Surplus/Deficit	2485	83	24	1236	699	-1504	-3103	-3780	1246	5414	9097	6722	8812	5240	2011
1933 Regional Surplus/Deficit	5563	3690	652	1813	1586	905	4654	2849	-1332	1456	2532	3920	13063	10612	3779
1934 Regional Surplus/Deficit	5205	5148	2022	4990	4672	9139	11020	8183	5511	10405	9192	5933	2117	3831	6033
1935 Regional Surplus/Deficit	1821	-470	-126	1577	1643	183	4084	4815	-2304	289	3421	2821	6747	5232	2267
1936 Regional Surplus/Deficit	4417	1670	292	1619	877	-1484	-2433	-3603	-978	-760	3558	9003	6130	2890	1396
1937 Regional Surplus/Deficit	3795	814	169	1562	816	-1245	-3527	-3829	-1623	-703	-1013	-2443	2883	2260	-294
1938 Regional Surplus/Deficit	3140	123	43	2132	1673	-304	5408	-427	2902	4141	5733	7794	7405	4662	3155
1939 Regional Surplus/Deficit	2808	434	927	1914	1164	-879	1095	-2925	-348	641	2278	4876	2973	3348	1269
1940 Regional Surplus/Deficit	4174	957	126	2044	794	-425	-443	-903	3455	2215	3610	1979	3418	1369	1408
1941 Regional Surplus/Deficit	2248	269	-58	1694	658	-163	115	-3373	-1427	-1692	-906	-1689	2851	596	-70
1942 Regional Surplus/Deficit	2047	375	352	1426	110	3048	4409	-2214	-2568	-343	1232	1760	8751	6085	1901
1943 Regional Surplus/Deficit	5229	3580	568	1626	1492	276	3978	3167	4176	10607	9242	7804	9378	7644	4536
1944 Regional Surplus/Deficit	5473	3828	824	2083	1215	-779	231	-3383	-2188	-1417	-1278	-3118	1214	409	-16
1945 Regional Surplus/Deficit	2341	-352	-13	910	509	-1348	-3021	-2596	-1791	-1156	-949	2549	7313	3383	486
1946 Regional Surplus/Deficit	2636	1656	34	2182	1599	-251	2273	2198	4638	5474	7721	8542	8308	6389	3721
1947 Regional Surplus/Deficit	5722	3268	1221	2005	1844	5206	6019	5074	5137	3071	5994	5958	7303	5243	4503
1948 Regional Surplus/Deficit	5648	1978	933	6947	3807	2692	5876	112	1803	2997	6839	9824	14051	7347	5177
1949 Regional Surplus/Deficit	5363	6132	2650	2706	1469	238	1371	79	6631	3161	8710	8202	7283	2403	3726
1950 Regional Surplus/Deficit	2815	-128	-200	2140	1837	-954	2919	5589	8129	7660	7783	6099	12845	8537	4667
1951 Regional Surplus/Deficit	5084	5570	1745	4632	5151	7671	8943	9992	5943	7587	8589	8516	6453	7516	6665
1952 Regional Surplus/Deficit	5283	5215	2269	5805	2189	3777	5159	3152	3239	7203	8610	9994	7827	4231	5066
1953 Regional Surplus/Deficit	5271	1705	652	1627	1124	-1187	1680	5027	-354	-1018	2377	5932	12116	7926	3226
1954 Regional Surplus/Deficit	5799	3486	1271	2576	1886	2324	4070	5606	2786	6446	5082	6709	11134	9949	4893
1955 Regional Surplus/Deficit	7476	5867	6295	3746	3098	1861	-707	-2587	-2198	1009	-183	1430	13324	11495	3570
1956 Regional Surplus/Deficit	5393	5806	1148	4277	4043	6379	9928	4194	6876	8100	11515	10181	14125	8206	7064
1957 Regional Surplus/Deficit	6062	4616	1353	3319	1487	2661	3053	-763	1984	8177	5427	9378	12817	4110	4295
1958 Regional Surplus/Deficit	3500	959	458	2089	1246	-351	2736	3359	2735	1315	6183	8303	10088	3396	3337
1959 Regional Surplus/Deficit	3507	1565	735	2049	3037	3853	8660	5998	2631	5666	4675	5049	10962	8689	4948
1960 Regional Surplus/Deficit	5185	4116	6282	8202	5721	5147	4935	576	2513	10935	7565	4349	8335	5629	5466
1961 Regional Surplus/Deficit	5685	1758	854	2220	2308	294	3672	4639	3958	5087	4799	5200	12126	4582	4043
1962 Regional Surplus/Deficit	3790	2127	62	2071	1340	-929	2935	-1615	-1455	7716	8875	4516	6316	5770	2522
1963 Regional Surplus/Deficit	5016	2864	605	3191	3147	3840	3251	2301	812	1238	1827	5514	7349	5237	3393
1964 Regional Surplus/Deficit	5967	3293	1381	1832	1904	-316	3004	-279	-1386	3101	3245	3811	13504	10520	3482
1965 Regional Surplus/Deficit	5661	5143	2757	3929	1957	6720	10662	8534	5793	4801	8843	7870	9201	4996	6220
1966 Regional Surplus/Deficit	5582	4798	1544	2948	1867	1710	4861	-956	-573	5979	2961	4198	5477	6128	3072
1967 Regional Surplus/Deficit	5515	2932	381	1854	1512	807	5818	7178	852	4667	2360	2449	12483	8696	4147
1968 Regional Surplus/Deficit	5235	4138	1458	3173	1966	1615	4945	4185	3184	-1368	1670	1919	8642	7532	3621
1969 Regional Surplus/Deficit	5431	4802	3649	4602	3933	3557	8405	6059	3615	9689	9027	10040	8531	5694	6047
1970 Regional Surplus/Deficit	5498	1828	873	2309	1670	-70	4026	3611	-390	-235	2948	4288	9694	2537	2797
1971 Regional Surplus/Deficit	3242	1052	275	2149	1926	-5.3	7502	10646	5238	6255	7699	10219	12970	9367	5784
1972 Regional Surplus/Deficit	6115	6255	1945	2589	2163	2157	7040	9920	10981	11662	6031	9802	13715	10056	7117
1973 Regional Surplus/Deficit	7093	5699	2831	2683	1586	2856	5302	-2759	-1403	-1840	-500	-1425	3351	2429	1723
1974 Regional Surplus/Deficit	2358	-202	-283	1250	1201	4466	12114	10864	7810	9307	10357	8946	14225	12564	7006
1975 Regional Surplus/Deficit	6352	6206	2648	1592	1521	785	4547	2243	4723	2803	3715	6184	10697	10335	4568
1976 Regional Surplus/Deficit	4066	2772	1649	3834	4685	8934	9144	6229	3889	8997	7111	9073	7263	9359	6294
1977 Regional Surplus/Deficit	8767	7943	7370	2760	1113	-867	164	-3490	-2712	-2285	-2085	-2274	468	187	741
1978 Regional Surplus/Deficit	2331	-325	-477	520	1119	62	2899	156	4583	3122	4789	5493	6066	6452	2653
-Ranked Averages-															
Top Ten Percent	4603	4040	1241	3316	3449	5921	9434	8240	7100	9131	8721	9304	11156	9540	6829
Middle Eighty Percent	4754	2788	1390	2659	1892	1290	3625	1813	1774	3557	4623	5264	8582	5819	3497
Bottom Ten Percent	3304	1304	226	1689	898	-1017	-2022	-3241	-1692	-1014	-1132	-2587	2228	1476	-234

Regional Surplus/Deficit by Water Year PNW Loads and Resources Study 2012 - 2013 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	5078	1267	287	1608	995	-1364	-1028	-4580	-2156	-2178	-1648	-2541	2998	2223	-191
1930 Regional Surplus/Deficit	1702	303	-316	1341	615	-1641	-3957	-2324	-2135	-1503	-1628	-3119	1590	2257	-688
1931 Regional Surplus/Deficit	2433	700	-57	1310	672	-1838	-3662	-4644	-2359	-1230	-2151	-2904	761	1016	-986
1932 Regional Surplus/Deficit	2052	-222	-261	1009	441	-1797	-3449	-4457	614	4680	8450	6563	7898	4821	1572
1933 Regional Surplus/Deficit	5130	3390	369	1588	1329	615	4320	2183	-1965	721	1881	3760	12149	10194	3342
1934 Regional Surplus/Deficit	4772	4848	1742	4767	4416	8858	10688	7519	4882	9672	8546	5775	1194	3411	5598
1935 Regional Surplus/Deficit	1388	-773	-409	1350	1385	-109	3748	4151	-2937	-447	2771	2658	5830	4813	1829
1936 Regional Surplus/Deficit	3984	1369	8.9	1393	619	-1775	-2774	-4280	-1613	-1498	2910	8844	5215	2470	958
1937 Regional Surplus/Deficit	3362	511	-115	1336	559	-1535	-3872	-4505	-2259	-1441	-1669	-2613	1961	1840	-735
1938 Regional Surplus/Deficit	2707	-179	-241	1905	1416	-594	5073	-1097	2272	3406	5085	7635	6489	4242	2718
1939 Regional Surplus/Deficit	2375	131	644	1688	905	-1170	758	-3600	-982	-94	1627	4715	2051	2928	830
1940 Regional Surplus/Deficit	3741	654	-158	1819	537	-716	-785	-1577	2826	1480	2962	1816	2497	949	969
1941 Regional Surplus/Deficit	1815	-34	-342	1468	401	-452	-228	-4049	-2063	-2427	-1557	-1854	1931	175	-510
1942 Regional Surplus/Deficit	1613	72	68	1200	-147	2758	4076	-2888	-3204	-1079	582	1597	7836	5666	1463
1943 Regional Surplus/Deficit	4797	3280	284	1400	1234	-15	3644	2498	3547	9874	8596	7645	8463	7225	4100
1944 Regional Surplus/Deficit	5040	3527	540	1857	956	-1070	-110	-4061	-2826	-2157	-1934	-3284	292	-13	-457
1945 Regional Surplus/Deficit	1907	-656	-297	682	251	-1640	-3367	-3272	-2428	-1896	-1608	2389	6398	2963	46
1946 Regional Surplus/Deficit	2202	1355	-250	1955	1342	-541	1934	1528	4009	4739	7074	8383	7393	5970	3284
1947 Regional Surplus/Deficit	5290	2968	939	1780	1586	4917	5686	4409	4508	2336	5346	5799	6388	4823	4067
1948 Regional Surplus/Deficit	5215	1676	650	6725	3550	2404	5543	-560	1174	2262	6192	9666	13138	6929	4741
1949 Regional Surplus/Deficit	4930	5832	2369	2482	1211	-53	1034	-594	6003	2426	8063	8043	6367	1983	3289
1950 Regional Surplus/Deficit	2381	-432	-485	1913	1580	-1244	2583	4922	7501	6927	7136	5940	11932	8118	4231
1951 Regional Surplus/Deficit	4651	5270	1462	4409	4895	7388	8611	9329	5315	6853	7942	8357	5538	7097	6230
1952 Regional Surplus/Deficit	4850	4914	1988	5583	1932	3489	4825	2486	2608	6469	7964	9836	6912	3811	4631
1953 Regional Surplus/Deficit	4838	1402	368	1400	866	-1478	1338	4363	-985	-1754	1726	5772	11203	7507	2788
1954 Regional Surplus/Deficit	5367	3186	989	2352	1629	2034	3736	4941	2156	5712	4435	6550	10220	9531	4457
1955 Regional Surplus/Deficit	7044	5567	6017	3524	2841	1572	-1048	-3263	-2835	274	-831	1267	12410	11078	3132
1956 Regional Surplus/Deficit	4960	5506	865	4054	3785	6095	9596	3529	6247	7367	10869	10023	13212	7787	6629
1957 Regional Surplus/Deficit	5630	4316	1070	3095	1229	2372	2717	-1437	1354	7444	4780	9220	11904	3691	3858
1958 Regional Surplus/Deficit	3067	655	175	1864	987	-643	2400	2690	2106	580	5536	8145	9174	2976	2899
1959 Regional Surplus/Deficit	3074	1263	452	1825	2780	3565	8327	5334	2000	4932	4027	4889	10048	8270	4512
1960 Regional Surplus/Deficit	4753	3816	6004	7980	5465	4862	4602	-94	1882	10202	6918	4188	7420	5210	5030
1961 Regional Surplus/Deficit	5253	1454	571	1996	2050	1.9	3336	3975	3329	4352	4149	5040	11213	4163	3607
1962 Regional Surplus/Deficit	3357	1825	-222	1846	1081	-1221	2598	-2286	-2092	6982	8228	4356	5400	5351	2084
1963 Regional Surplus/Deficit	4583	2563	321	2968	2890	3553	2917	1636	176	503	1176	5354	6434	4817	2957
1964 Regional Surplus/Deficit	5535	2992	1098	1606	1645	-608	2667	-950	-2022	2366	2595	3651	12591	10102	3044
1965 Regional Surplus/Deficit	5229	4843	2476	3707	1700	6433	10331	7871	5164	4066	8196	7711	8287	4576	5785
1966 Regional Surplus/Deficit	5150	4497	1262	2724	1610	1420	4527	-1625	-1209	5246	2312	4038	4560	5709	2635
1967 Regional Surplus/Deficit	5082	2629	97	1628	1254	516	5484	6514	221	3932	1708	2288	11569	8277	3710
1968 Regional Surplus/Deficit	4803	3838	1175	2949	1709	1325	4611	3520	2555	-2106	1019	1755	7728	7113	3185
1969 Regional Surplus/Deficit	4999	4502	3369	4379	3676	3269	8072	5395	2986	8955	8380	9882	7617	5274	5611
1970 Regional Surplus/Deficit	5065	1525	589	2085	1412	-362	3689	2946	-1023	-971	2300	4128	8779	2117	2360
1971 Regional Surplus/Deficit	2809	748	-9.2	1923	1667	-296	7169	9982	4610	5521	7052	10061	12056	8948	5348
1972 Regional Surplus/Deficit	5683	5955	1663	2364	1905	1867	6707	9256	10354	10929	5383	9644	12802	9638	6681
1973 Regional Surplus/Deficit	6661	5400	2550	2458	1327	2567	4968	-3434	-2039	-2579	-1154	-1592	2431	2009	1284
1974 Regional Surplus/Deficit	1925	-506	-568	1022	943	4177	11782	10200	7182	8574	9711	8788	13312	12146	6570
1975 Regional Surplus/Deficit	5919	5906	2366	1366	1263	494	4213	1577	4094	2068	3066	6025	9783	9917	4131
1976 Regional Surplus/Deficit	3634	2471	1367	3611	4428	8653	8812	5565	3261	8263	6464	8915	6348	8941	5860
1977 Regional Surplus/Deficit	8335	7643	7093	2536	854	-1158	-177	-4167	-3351	-3025	-2741	-2442	-455	-237	300
1978 Regional Surplus/Deficit	1898	-629	-762	292	861	-229	2561	-515	3954	2388	4141	5334	5150	6033	2215
-Ranked Averages-															
Top Ten Percent	4171	3739	958	3092	3191	5636	9101	7576	6472	8397	8074	9145	10242	9122	6394
Middle Eighty Percent	4322	2486	1107	2434	1634	1000	3289	1144	1142	2822	3974	5104	7667	5399	3060
Bottom Ten Percent	2870	1001	-58	1462	641	-1307	-2366	-3917	-2328	-1752	-1788	-2755	1307	1055	-675

<div> <div>Regional Surplus/Deficit by Water Year</div> <div>PNW Loads and Resources Study</div> <div>2013 - 2014 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1929 Regional Surplus/Deficit	4838	964	51	1299	692	-1732	-1364	-4862	-2326	-2024	-1541	-2465	3318	2178	-341
1930 Regional Surplus/Deficit	1460	0.3	-552	1030	313	-2009	-4297	-2603	-2305	-1347	-1522	-3044	1909	2212	-837
1931 Regional Surplus/Deficit	2193	398	-293	999	370	-2206	-4001	-4925	-2530	-1072	-2046	-2828	1079	971	-1136
1932 Regional Surplus/Deficit	1812	-525	-497	698	139	-2167	-3788	-4739	447	4839	8564	6646	8221	4776	1423
1933 Regional Surplus/Deficit	4890	3089	135	1279	1028	247	3990	1911	-2133	879	1993	3842	12473	10149	3195
1934 Regional Surplus/Deficit	4531	4548	1510	4461	4115	8498	10358	7248	4718	9831	8660	5857	1511	3366	5452
1935 Regional Surplus/Deficit	1147	-1076	-643	1039	1083	-478	3417	3879	-3104	-288	2884	2737	6152	4768	1682
1936 Regional Surplus/Deficit	3744	1068	-226	1083	318	-2142	-3111	-4561	-1783	-1341	3024	8927	5539	2425	810
1937 Regional Surplus/Deficit	3121	208	-350	1026	257	-1903	-4211	-4786	-2429	-1286	-1562	-2538	2280	1795	-885
1938 Regional Surplus/Deficit	2467	-480	-476	1595	1115	-961	4741	-1372	2107	3565	5199	7717	6813	4197	2571
1939 Regional Surplus/Deficit	2134	-171	410	1380	603	-1538	425	-3879	-1151	64	1739	4796	2369	2883	682
1940 Regional Surplus/Deficit	3500	352	-393	1510	236	-1084	-1121	-1857	2661	1638	3077	1897	2816	904	821
1941 Regional Surplus/Deficit	1574	-336	-577	1159	100	-819	-565	-4329	-2233	-2269	-1446	-1776	2252	129	-658
1942 Regional Surplus/Deficit	1372	-230	-167	891	-448	2391	3746	-3166	-3375	-920	694	1678	8160	5622	1316
1943 Regional Surplus/Deficit	4556	2980	50	1091	931	-383	3314	2224	3383	10032	8710	7727	8787	7181	3954
1944 Regional Surplus/Deficit	4800	3227	305	1548	653	-1438	-446	-4342	-2997	-2002	-1827	-3207	611	-59	-606
1945 Regional Surplus/Deficit	1666	-959	-533	372	-52	-2009	-3706	-3553	-2599	-1740	-1502	2471	6722	2919	-103
1946 Regional Surplus/Deficit	1961	1054	-485	1645	1040	-908	1599	1253	3845	4898	7188	8466	7717	5925	3137
1947 Regional Surplus/Deficit	5049	2667	705	1472	1284	4551	5356	4137	4344	2494	5461	5881	6712	4779	3921
1948 Regional Surplus/Deficit	4975	1374	415	6419	3249	2040	5212	-837	1010	2420	6306	9748	13461	6884	4595
1949 Regional Surplus/Deficit	4690	5532	2136	2175	909	-422	701	-873	5839	2585	8177	8126	6691	1938	3143
1950 Regional Surplus/Deficit	2140	-735	-720	1603	1278	-1611	2251	4648	7337	7085	7250	6022	12256	8073	4084
1951 Regional Surplus/Deficit	4411	4969	1228	4102	4593	7026	8281	9057	5151	7011	8057	8440	5862	7052	6085
1952 Regional Surplus/Deficit	4610	4614	1755	5277	1631	3123	4495	2214	2442	6627	8078	9919	7236	3766	4485
1953 Regional Surplus/Deficit	4598	1101	133	1091	563	-1845	1001	4091	-1151	-1595	1839	5855	11526	7462	2641
1954 Regional Surplus/Deficit	5126	2885	754	2044	1327	1666	3405	4670	1991	5870	4549	6632	10544	9486	4311
1955 Regional Surplus/Deficit	6803	5266	5786	3217	2540	1205	-1384	-3544	-3006	432	-717	1347	12734	11033	2985
1956 Regional Surplus/Deficit	4720	5206	631	3747	3483	5732	9265	3258	6083	7525	10983	10105	13535	7742	6483
1957 Regional Surplus/Deficit	5389	4016	836	2788	927	2005	2384	-1715	1189	7602	4894	9302	12228	3646	3712
1958 Regional Surplus/Deficit	2826	352	-61	1555	685	-1012	2067	2415	1942	738	5650	8227	9498	2932	2753
1959 Regional Surplus/Deficit	2833	961	217	1517	2478	3200	7997	5063	1835	5090	4142	4972	10372	8226	4366
1960 Regional Surplus/Deficit	4512	3515	5773	7674	5164	4498	4272	-369	1716	10360	7032	4271	7744	5165	4885
1961 Regional Surplus/Deficit	5012	1152	337	1687	1749	-367	3004	3703	3165	4510	4262	5123	11537	4118	3460
1962 Regional Surplus/Deficit	3117	1524	-458	1537	778	-1590	2265	-2562	-2262	7140	8343	4438	5724	5306	1937
1963 Regional Surplus/Deficit	4343	2262	86	2661	2589	3188	2587	1363	6.1	662	1289	5436	6758	4772	2810
1964 Regional Surplus/Deficit	5294	2692	864	1297	1342	-976	2334	-1226	-2192	2525	2708	3733	12914	10058	2897
1965 Regional Surplus/Deficit	4988	4543	2243	3400	1399	6068	10000	7599	5000	4224	8310	7793	8611	4531	5640
1966 Regional Surplus/Deficit	4909	4197	1028	2416	1309	1052	4196	-1900	-1378	5404	2425	4120	4882	5664	2488
1967 Regional Surplus/Deficit	4842	2327	-138	1319	951	148	5154	6242	55	4091	1819	2371	11893	8232	3564
1968 Regional Surplus/Deficit	4562	3538	941	2641	1407	957	4281	3249	2390	-1950	1130	1834	8052	7068	3038
1969 Regional Surplus/Deficit	4758	4202	3138	4073	3375	2903	7742	5124	2821	9113	8494	9964	7941	5229	5466
1970 Regional Surplus/Deficit	4824	1223	354	1777	1109	-731	3355	2675	-1190	-813	2413	4210	9103	2072	2213
1971 Regional Surplus/Deficit	2568	445	-245	1613	1365	-663	6839	9711	4446	5679	7167	10143	12380	8903	5202
1972 Regional Surplus/Deficit	5442	5654	1429	2055	1604	1499	6377	8984	10190	11087	5497	9726	13125	9593	6535
1973 Regional Surplus/Deficit	6421	5099	2316	2150	1025	2200	4638	-3714	-2209	-2422	-1044	-1515	2751	1964	1136
1974 Regional Surplus/Deficit	1685	-810	-805	711	640	3810	11452	9929	7018	8732	9826	8870	13635	12102	6423
1975 Regional Surplus/Deficit	5679	5606	2133	1057	960	125	3882	1304	3929	2226	3180	6107	10107	9872	3985
1976 Regional Surplus/Deficit	3393	2171	1133	3304	4126	8293	8482	5293	3097	8422	6578	8998	6671	8896	5715
1977 Regional Surplus/Deficit	8095	7343	6862	2228	551	-1526	-512	-4448	-3523	-2871	-2633	-2366	-138	-285	151
1978 Regional Surplus/Deficit	1656	-932	-997	-18	559	-597	2227	-792	3790	2546	4256	5416	5474	5988	2068
-Ranked Averages-															
Top Ten Percent	3930	3438	723	2784	2889	5272	8771	7304	6308	8555	8188	9228	10566	9077	6248
Middle Eighty Percent	4081	2185	873	2125	1333	633	2956	869	976	2980	4087	5185	7990	5354	2913
Bottom Ten Percent	2630	699	-294	1153	339	-1675	-2704	-4197	-2499	-1595	-1681	-2679	1626	1010	-824

Section 8
Monthly OY 2005 – 2014
Average Energy in Megawatts

	<u>Table Number</u>
Total Retail Loads	A-1
Exports	A-2
Regulated Hydro	A-3
Independent Hydro	A-4
Imports	A-5
Small Thermal & Miscellaneous	A-6
Combustion Turbines	A-7
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Canadian Entitlement Return For CSPE	A-12
Columbia Storage Power Exchange Purchase (CSPE)	A-13
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Non-Utility Generating Resources	A-23
Regional Non-Utility Generating Resources By Project	A-24
Dedicated Resources	A-25
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<div> <div>Table A-1: Pacific Northwest Total Retail Loads</div> <div>PNW Loads and Resources Study</div> <div>2004 - 2005 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	130	130	119	117	129	144	144	139	130	122	121	119	119	126	128
2 Total Federal Entities	130	130	119	117	129	144	144	139	130	122	121	119	119	126	128
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	302	301	299	296	294	291	288	287	287	290	290	290	290	290	292
6 Total Direct Service Industry	302	301	299	296	294	291	288	287	287	290	290	290	290	290	292
-Generating Public Entities-															
7 Generating Public Entities	4254	4254	4204	4569	5181	5677	5795	5648	5230	4805	4798	4468	4286	4284	4866
8 Total Generating Public Entities	4254	4254	4204	4569	5181	5677	5795	5648	5230	4805	4798	4468	4286	4284	4866
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3364	3364	3042	3014	3388	3881	3923	3738	3386	3232	3223	3208	3340	3461	3414
10 Total Non-Generating Public Entities	3364	3364	3042	3014	3388	3881	3923	3738	3386	3232	3223	3208	3340	3461	3414
-Investor-Owned Entities-															
11 Investor-Owned Entities	10430	10430	9717	9797	10730	11799	12086	11532	10703	9899	9899	9769	10306	10861	10636
12 Total Investor-Owned Entities	10430	10430	9717	9797	10730	11799	12086	11532	10703	9899	9899	9769	10306	10861	10636
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	439	405	285	246	129	144	144	139	153	374	436	387	417	458	278
16 Direct Service Industry	302	301	299	296	294	291	288	287	287	290	290	290	290	290	292
17 Public Entities	7618	7618	7246	7583	8569	9558	9718	9386	8616	8037	8022	7676	7626	7745	8281
18 Investor-Owned Entities	10430	10430	9717	9797	10730	11799	12086	11532	10703	9899	9899	9769	10306	10861	10636
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	18969	18934	17728	18102	19903	21973	22416	21525	19939	18780	18827	18302	18819	19534	19666
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	439	405	285	246	129	144	144	139	153	374	436	387	417	458	278
30 Direct Service Industry	302	301	299	296	294	291	288	287	287	290	290	290	290	290	292
31 Public Entities	7618	7618	7246	7583	8569	9558	9718	9386	8616	8037	8022	7676	7626	7745	8281
32 Investor-Owned Entities	10430	10430	9717	9797	10730	11799	12086	11532	10703	9899	9899	9769	10306	10861	10636
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	18969	18934	17728	18102	19903	21973	22416	21525	19939	18780	18827	18302	18819	19534	19666

Table A-1: Pacific Northwest Total Retail Loads PNW Loads and Resources Study 2005 - 2006 Operating Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	131	131	120	118	130	144	145	139	131	122	122	119	119	127	129
2 Total Federal Entities	131	131	120	118	130	144	145	139	131	122	122	119	119	127	129
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	290	290	290	297	297	297	297	297	297	297	297	297	297	297	296
6 Total Direct Service Industry	290	290	290	297	297	297	297	297	297	297	297	297	297	297	296
-Generating Public Entities-															
7 Generating Public Entities	4312	4312	4257	4623	5230	5730	5880	5710	5326	4897	4891	4540	4365	4363	4936
8 Total Generating Public Entities	4312	4312	4257	4623	5230	5730	5880	5710	5326	4897	4891	4540	4365	4363	4936
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3404	3404	3076	3057	3438	3938	3992	3786	3439	3277	3268	3246	3387	3504	3462
10 Total Non-Generating Public Entities	3404	3404	3076	3057	3438	3938	3992	3786	3439	3277	3268	3246	3387	3504	3462
-Investor-Owned Entities-															
11 Investor-Owned Entities	10676	10676	9903	9955	10937	12002	12183	11651	10855	10087	10087	9942	10450	11023	10805
12 Total Investor-Owned Entities	10676	10676	9903	9955	10937	12002	12183	11651	10855	10087	10087	9942	10450	11023	10805
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	440	406	286	247	130	144	145	140	154	374	437	387	417	459	278
16 Direct Service Industry	290	290	290	297	297	297	297	297	297	297	297	297	297	297	296
17 Public Entities	7716	7716	7333	7680	8668	9668	9873	9496	8765	8174	8159	7786	7752	7867	8397
18 Investor-Owned Entities	10676	10676	9903	9955	10937	12002	12183	11651	10855	10087	10087	9942	10450	11023	10805
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	19302	19268	17991	18359	20212	22291	22677	21764	20251	19112	19160	18593	19096	19826	19957
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	440	406	286	247	130	144	145	140	154	374	437	387	417	459	278
30 Direct Service Industry	290	290	290	297	297	297	297	297	297	297	297	297	297	297	296
31 Public Entities	7716	7716	7333	7680	8668	9668	9873	9496	8765	8174	8159	7786	7752	7867	8397
32 Investor-Owned Entities	10676	10676	9903	9955	10937	12002	12183	11651	10855	10087	10087	9942	10450	11023	10805
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	19302	19268	17991	18359	20212	22291	22677	21764	20251	19112	19160	18593	19096	19826	19957

<div> <div>Table A-1: Pacific Northwest Total Retail Loads</div> <div>PNW Loads and Resources Study</div> <div>2006 - 2007 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	132	132	121	118	130	145	145	140	131	123	122	120	120	127	129
2 Total Federal Entities	132	132	121	118	130	145	145	140	131	123	122	120	120	127	129
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	297	297	297	674	674	674	674	674	674	674	674	674	674	674	611
6 Total Direct Service Industry	297	297	297	674	674	674	674	674	674	674	674	674	674	674	611
-Generating Public Entities-															
7 Generating Public Entities	4375	4375	4324	4714	5332	5841	5990	5820	5429	4994	4987	4630	4450	4448	5029
8 Total Generating Public Entities	4375	4375	4324	4714	5332	5841	5990	5820	5429	4994	4987	4630	4450	4448	5029
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3461	3461	3125	3095	3473	3980	4038	3837	3482	3318	3310	3286	3432	3547	3506
10 Total Non-Generating Public Entities	3461	3461	3125	3095	3473	3980	4038	3837	3482	3318	3310	3286	3432	3547	3506
-Investor-Owned Entities-															
11 Investor-Owned Entities	10869	10869	10059	10090	11052	12186	12384	11818	11004	10250	10250	10103	10611	11219	10970
12 Total Investor-Owned Entities	10869	10869	10059	10090	11052	12186	12384	11818	11004	10250	10250	10103	10611	11219	10970
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	441	407	287	247	130	145	145	141	154	375	437	388	418	459	279
16 Direct Service Industry	297	297	297	674	674	674	674	674	674	674	674	674	674	674	611
17 Public Entities	7837	7837	7449	7809	8806	9821	10029	9656	8911	8312	8297	7916	7883	7996	8535
18 Investor-Owned Entities	10869	10869	10059	10090	11052	12186	12384	11818	11004	10250	10250	10103	10611	11219	10970
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	19623	19589	18271	19001	20841	23005	23412	22469	20923	19790	19838	19260	19766	20528	20575
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	441	407	287	247	130	145	145	141	154	375	437	388	418	459	279
30 Direct Service Industry	297	297	297	674	674	674	674	674	674	674	674	674	674	674	611
31 Public Entities	7837	7837	7449	7809	8806	9821	10029	9656	8911	8312	8297	7916	7883	7996	8535
32 Investor-Owned Entities	10869	10869	10059	10090	11052	12186	12384	11818	11004	10250	10250	10103	10611	11219	10970
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	19623	19589	18271	19001	20841	23005	23412	22469	20923	19790	19838	19260	19766	20528	20575

<div> <div>Table A-1: Pacific Northwest Total Retail Loads</div> <div>PNW Loads and Resources Study</div> <div>2007 - 2008 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	132	132	121	119	131	145	146	137	132	123	123	120	120	128	130
2 Total Federal Entities	132	132	121	119	131	145	146	137	132	123	123	120	120	128	130
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
6 Total Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
-Generating Public Entities-															
7 Generating Public Entities	4459	4459	4409	4798	5427	5944	6083	5803	5515	5073	5066	4702	4518	4516	5104
8 Total Generating Public Entities	4459	4459	4409	4798	5427	5944	6083	5803	5515	5073	5066	4702	4518	4516	5104
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3503	3503	3163	3135	3517	4034	4086	3770	3526	3360	3351	3333	3478	3596	3541
10 Total Non-Generating Public Entities	3503	3503	3163	3135	3517	4034	4086	3770	3526	3360	3351	3333	3478	3596	3541
-Investor-Owned Entities-															
11 Investor-Owned Entities	11048	11048	10214	10260	11220	12352	12601	11955	11201	10435	10435	10209	10736	11402	11136
12 Total Investor-Owned Entities	11048	11048	10214	10260	11220	12352	12601	11955	11201	10435	10435	10209	10736	11402	11136
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	441	407	287	248	131	145	146	138	155	375	438	388	418	460	279
16 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
17 Public Entities	7963	7963	7572	7934	8945	9978	10169	9574	9041	8433	8418	8034	7996	8112	8645
18 Investor-Owned Entities	11048	11048	10214	10260	11220	12352	12601	11955	11201	10435	10435	10209	10736	11402	11136
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	20305	20271	18927	19295	21149	23329	23770	22521	21250	20097	20144	19485	20004	20827	20914
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	441	407	287	248	131	145	146	138	155	375	438	388	418	460	279
30 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
31 Public Entities	7963	7963	7572	7934	8945	9978	10169	9574	9041	8433	8418	8034	7996	8112	8645
32 Investor-Owned Entities	11048	11048	10214	10260	11220	12352	12601	11955	11201	10435	10435	10209	10736	11402	11136
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	20305	20271	18927	19295	21149	23329	23770	22521	21250	20097	20144	19485	20004	20827	20914

<div> <div>Table A-1: Pacific Northwest Total Retail Loads</div> <div>PNW Loads and Resources Study</div> <div>2008 - 2009 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	133	133	122	119	131	146	147	141	132	123	123	121	121	128	130
2 Total Federal Entities	133	133	122	119	131	146	147	141	132	123	123	121	121	128	130
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
6 Total Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
-Generating Public Entities-															
7 Generating Public Entities	4525	4525	4475	4871	5508	6033	6181	6028	5606	5156	5149	4778	4590	4587	5195
8 Total Generating Public Entities	4525	4525	4475	4871	5508	6033	6181	6028	5606	5156	5149	4778	4590	4587	5195
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3543	3543	3203	3174	3563	4088	4134	3938	3570	3406	3397	3376	3523	3644	3596
10 Total Non-Generating Public Entities	3543	3543	3203	3174	3563	4088	4134	3938	3570	3406	3397	3376	3523	3644	3596
-Investor-Owned Entities-															
11 Investor-Owned Entities	11194	11194	10395	10455	11427	12568	12776	12206	11370	10589	10589	10359	10932	11590	11322
12 Total Investor-Owned Entities	11194	11194	10395	10455	11427	12568	12776	12206	11370	10589	10589	10359	10932	11590	11322
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	442	408	288	248	131	146	147	142	155	375	438	389	419	460	280
16 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
17 Public Entities	8068	8068	7678	8045	9071	10120	10315	9967	9177	8562	8546	8154	8113	8231	8791
18 Investor-Owned Entities	11194	11194	10395	10455	11427	12568	12776	12206	11370	10589	10589	10359	10932	11590	11322
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	20558	20524	19215	19602	21484	23688	24092	23169	21556	20381	20427	19755	20318	21135	21246
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	442	408	288	248	131	146	147	142	155	375	438	389	419	460	280
30 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
31 Public Entities	8068	8068	7678	8045	9071	10120	10315	9967	9177	8562	8546	8154	8113	8231	8791
32 Investor-Owned Entities	11194	11194	10395	10455	11427	12568	12776	12206	11370	10589	10589	10359	10932	11590	11322
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	20558	20524	19215	19602	21484	23688	24092	23169	21556	20381	20427	19755	20318	21135	21246

<div> <div>Table A-1: Pacific Northwest Total Retail Loads</div> <div>PNW Loads and Resources Study</div> <div>2009 - 2010 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	134	134	122	119	132	147	147	141	133	124	124	121	121	129	131
2 Total Federal Entities	134	134	122	119	132	147	147	141	133	124	124	121	121	129	131
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
6 Total Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
-Generating Public Entities-															
7 Generating Public Entities	4594	4594	4544	4945	5612	6124	6263	6090	5683	5227	5220	4842	4650	4647	5268
8 Total Generating Public Entities	4594	4594	4544	4945	5612	6124	6263	6090	5683	5227	5220	4842	4650	4647	5268
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3587	3587	3244	3216	3612	4145	4193	3993	3620	3454	3444	3424	3570	3696	3646
10 Total Non-Generating Public Entities	3587	3587	3244	3216	3612	4145	4193	3993	3620	3454	3444	3424	3570	3696	3646
-Investor-Owned Entities-															
11 Investor-Owned Entities	11383	11383	10569	10609	11619	12750	12976	12401	11568	10765	10765	10541	11131	11785	11508
12 Total Investor-Owned Entities	11383	11383	10569	10609	11619	12750	12976	12401	11568	10765	10765	10541	11131	11785	11508
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	443	409	288	248	132	147	147	142	156	376	439	389	419	461	280
16 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
17 Public Entities	8181	8181	7787	8160	9224	10269	10456	10084	9303	8681	8664	8266	8220	8342	8914
18 Investor-Owned Entities	11383	11383	10569	10609	11619	12750	12976	12401	11568	10765	10765	10541	11131	11785	11508
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	20860	20826	19498	19872	21828	24020	24433	23481	21880	20676	20722	20051	20625	21443	21556
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	443	409	288	248	132	147	147	142	156	376	439	389	419	461	280
30 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
31 Public Entities	8181	8181	7787	8160	9224	10269	10456	10084	9303	8681	8664	8266	8220	8342	8914
32 Investor-Owned Entities	11383	11383	10569	10609	11619	12750	12976	12401	11568	10765	10765	10541	11131	11785	11508
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	20860	20826	19498	19872	21828	24020	24433	23481	21880	20676	20722	20051	20625	21443	21556

<div> <div>Table A-1: Pacific Northwest Total Retail Loads</div> <div>PNW Loads and Resources Study</div> <div>2010 - 2011 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	134	134	123	120	132	147	148	142	133	124	124	122	122	130	131
2 Total Federal Entities	134	134	123	120	132	147	148	142	133	124	124	122	122	130	131
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
6 Total Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
-Generating Public Entities-															
7 Generating Public Entities	4654	4654	4604	5010	5665	6205	6345	6171	5759	5297	5290	4906	4709	4705	5336
8 Total Generating Public Entities	4654	4654	4604	5010	5665	6205	6345	6171	5759	5297	5290	4906	4709	4705	5336
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3635	3635	3287	3258	3663	4200	4247	4044	3662	3497	3487	3469	3613	3743	3693
10 Total Non-Generating Public Entities	3635	3635	3287	3258	3663	4200	4247	4044	3662	3497	3487	3469	3613	3743	3693
-Investor-Owned Entities-															
11 Investor-Owned Entities	11600	11600	10756	10782	11835	12960	13194	12580	11740	10928	10928	10723	11328	11977	11700
12 Total Investor-Owned Entities	11600	11600	10756	10782	11835	12960	13194	12580	11740	10928	10928	10723	11328	11977	11700
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	443	409	289	249	132	147	148	143	156	376	439	390	420	462	281
16 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
17 Public Entities	8289	8289	7891	8268	9329	10405	10591	10215	9421	8794	8777	8376	8322	8449	9028
18 Investor-Owned Entities	11600	11600	10756	10782	11835	12960	13194	12580	11740	10928	10928	10723	11328	11977	11700
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	21186	21152	19790	20154	22150	24367	24787	23793	22172	20952	20998	20343	20923	21741	21864
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	443	409	289	249	132	147	148	143	156	376	439	390	420	462	281
30 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
31 Public Entities	8289	8289	7891	8268	9329	10405	10591	10215	9421	8794	8777	8376	8322	8449	9028
32 Investor-Owned Entities	11600	11600	10756	10782	11835	12960	13194	12580	11740	10928	10928	10723	11328	11977	11700
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	21186	21152	19790	20154	22150	24367	24787	23793	22172	20952	20998	20343	20923	21741	21864

<div> <div>Table A-1: Pacific Northwest Total Retail Loads</div> <div>PNW Loads and Resources Study</div> <div>2011 - 2012 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	135	135	123	120	133	148	148	141	134	125	124	122	122	130	132
2 Total Federal Entities	135	135	123	120	133	148	148	141	134	125	124	122	122	130	132
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
6 Total Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
-Generating Public Entities-															
7 Generating Public Entities	4714	4714	4664	5167	5784	6376	6445	6169	5830	5368	5361	4999	4827	4832	5431
8 Total Generating Public Entities	4714	4714	4664	5167	5784	6376	6445	6169	5830	5368	5361	4999	4827	4832	5431
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3680	3680	3327	3323	3722	4286	4256	3960	3682	3495	3486	3485	3656	3788	3721
10 Total Non-Generating Public Entities	3680	3680	3327	3323	3722	4286	4256	3960	3682	3495	3486	3485	3656	3788	3721
-Investor-Owned Entities-															
11 Investor-Owned Entities	11818	11818	10940	10968	12034	13163	13400	12718	11698	11141	11141	10922	11486	12181	11872
12 Total Investor-Owned Entities	11818	11818	10940	10968	12034	13163	13400	12718	11698	11141	11141	10922	11486	12181	11872
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	444	410	289	249	133	148	148	142	157	377	439	390	420	462	281
16 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
17 Public Entities	8394	8394	7990	8489	9506	10661	10701	10129	9512	8863	8847	8484	8484	8619	9152
18 Investor-Owned Entities	11818	11818	10940	10968	12034	13163	13400	12718	11698	11141	11141	10922	11486	12181	11872
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	21510	21476	20074	20560	22527	24826	25104	23843	22221	21235	21281	20650	21245	22117	22160
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	444	410	289	249	133	148	148	142	157	377	439	390	420	462	281
30 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
31 Public Entities	8394	8394	7990	8489	9506	10661	10701	10129	9512	8863	8847	8484	8484	8619	9152
32 Investor-Owned Entities	11818	11818	10940	10968	12034	13163	13400	12718	11698	11141	11141	10922	11486	12181	11872
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	21510	21476	20074	20560	22527	24826	25104	23843	22221	21235	21281	20650	21245	22117	22160

Table A-1: Pacific Northwest Total Retail Loads PNW Loads and Resources Study 2012 - 2013 Operating Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	136	136	124	121	134	148	149	143	134	125	125	123	123	131	133
2 Total Federal Entities	136	136	124	121	134	148	149	143	134	125	125	123	123	131	133
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
6 Total Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
-Generating Public Entities-															
7 Generating Public Entities	4839	4839	4792	5233	5858	6458	6529	6394	5909	5441	5433	5064	4889	4893	5525
8 Total Generating Public Entities	4839	4839	4792	5233	5858	6458	6529	6394	5909	5441	5433	5064	4889	4893	5525
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3733	3733	3371	3349	3743	4313	4303	4133	3728	3539	3530	3528	3701	3836	3773
10 Total Non-Generating Public Entities	3733	3733	3371	3349	3743	4313	4303	4133	3728	3539	3530	3528	3701	3836	3773
-Investor-Owned Entities-															
11 Investor-Owned Entities	12033	12033	11113	11146	12182	13364	13655	13023	12160	11343	11343	11116	11686	12420	12103
12 Total Investor-Owned Entities	12033	12033	11113	11146	12182	13364	13655	13023	12160	11343	11343	11116	11686	12420	12103
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	445	411	290	250	134	148	149	144	157	377	440	391	421	463	282
16 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
17 Public Entities	8572	8572	8164	8582	9601	10771	10833	10527	9637	8980	8963	8592	8590	8729	9298
18 Investor-Owned Entities	12033	12033	11113	11146	12182	13364	13655	13023	12160	11343	11343	11116	11686	12420	12103
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	21904	21870	20420	20832	22771	25136	25490	24548	22808	21554	21600	20953	21551	22466	22537
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	445	411	290	250	134	148	149	144	157	377	440	391	421	463	282
30 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
31 Public Entities	8572	8572	8164	8582	9601	10771	10833	10527	9637	8980	8963	8592	8590	8729	9298
32 Investor-Owned Entities	12033	12033	11113	11146	12182	13364	13655	13023	12160	11343	11343	11116	11686	12420	12103
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	21904	21870	20420	20832	22771	25136	25490	24548	22808	21554	21600	20953	21551	22466	22537

Table A-1: Pacific Northwest Total Retail Loads PNW Loads and Resources Study 2013 - 2014 Operating Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	136	136	125	122	134	149	150	144	135	126	125	123	123	132	133
2 Total Federal Entities	136	136	125	122	134	149	150	144	135	126	125	123	123	132	133
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
6 Total Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
-Generating Public Entities-															
7 Generating Public Entities	4900	4900	4854	5303	5936	6544	6607	6452	5980	5507	5500	5125	4946	4947	5592
8 Total Generating Public Entities	4900	4900	4854	5303	5936	6544	6607	6452	5980	5507	5500	5125	4946	4947	5592
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3777	3777	3412	3390	3791	4369	4350	4185	3772	3581	3571	3571	3747	3883	3819
10 Total Non-Generating Public Entities	3777	3777	3412	3390	3791	4369	4350	4185	3772	3581	3571	3571	3747	3883	3819
-Investor-Owned Entities-															
11 Investor-Owned Entities	12246	12246	11318	11346	12387	13606	13890	13241	12362	11541	11541	11310	11914	12652	12318
12 Total Investor-Owned Entities	12246	12246	11318	11346	12387	13606	13890	13241	12362	11541	11541	11310	11914	12652	12318
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	0	165
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	0	165
- Total Regional Firm Loads-															
15 Federal Entities	445	411	291	251	134	149	150	145	158	378	440	391	421	464	283
16 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
17 Public Entities	8678	8678	8266	8693	9727	10913	10957	10637	9752	9088	9071	8697	8693	8830	9410
18 Investor-Owned Entities	12246	12246	11318	11346	12387	13606	13890	13241	12362	11541	11541	11310	11914	12652	12318
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	0	165
20 Total Regional Firm Loads	22223	22189	20729	21143	23102	25521	25850	24877	23126	21861	21906	21252	21882	22620	22849
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Regional Medium Loads-															
29 Federal Entities	445	411	291	251	134	149	150	145	158	378	440	391	421	464	283
30 Direct Service Industry	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674
31 Public Entities	8678	8678	8266	8693	9727	10913	10957	10637	9752	9088	9071	8697	8693	8830	9410
32 Investor-Owned Entities	12246	12246	11318	11346	12387	13606	13890	13241	12362	11541	11541	11310	11914	12652	12318
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	0	165
34 Total Regional Medium Loads	22223	22189	20729	21143	23102	25521	25850	24877	23126	21861	21906	21252	21882	22620	22849

<div> <div>Table A-2: Regional Exports</div> <div>PNW Loads and Resources Study</div> <div>2004 - 2005 Operating Year</div> <div>2003 White Book</div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Exports East of Continental Divide -															
1 AVWP to PPLM PwrS	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2 BPA to Other Entities	67	67	61	66	82	97	95	91	84	78	78	65	70	76	78
3 Total Exports to ECD	76	76	70	75	92	106	104	100	93	87	86	74	79	86	87
-Exports to Pacific Southwest-															
4 BPA to ANHM PwrX	20	20	20	0	0	0	0	0	0	0	0	0	0	0	3.3
5 BPA to BART PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
6 BPA to BURB C/N/X	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4	5.4	5.4	3.8
7 BPA to GLEN C/N/X	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	6.0	4.2
8 BPA to MSR PwrS	94	94	91	73	58	76	75	74	45	46	46	44	112	112	75
9 BPA to Other Entities	188	190	189	175	175	175	175	175	175	175	175	175	175	175	177
10 BPA to PASA C/N/X	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	3.6	2.5
11 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
12 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
13 BPA to RVSD CapS	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
14 BPA to RVSD C/N/X	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
15 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
16 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
17 IPC to CLTN PwrS	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0	0	2.6
18 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
19 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	8.9	8.9	3.0
20 PPL to CDWR PwrS	78	78	76	69	67	71	0	0	0	0	0	0	0	0	30
21 PPL to SCE PwrS	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
22 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
23 PSE to PGS S/Pwr/X	171	171	168	0	0	0	0	0	0	0	0	0	48	128	43
24 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
25 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
26 SHPD to SMUD PwrS	36	36	36	26	26	26	26	26	26	26	26	26	33	33	29
27 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
28 BPA NW-SW Intertie Losses	11	11	11	9.5	8.6	9.2	9.1	9.1	8.2	8.3	8.3	9.2	11	11	9.7
29 Total Exports To PSW	920	921	924	652	606	629	557	556	526	526	526	509	722	789	660
-Exports to Inland Southwest-															
30 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
31 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
32 PPL to WAPA PwrS	108	108	108	108	108	108	75	75	75	75	75	75	75	75	89
33 Total Exports To ISW	219	219	219	189	189	189	156	156	156	186	186	186	186	186	185
-Exports to Canada-															
34 BPA to BCHP CanEnt	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537
35 Total Exports To Canada	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537
-Exports to Other Entities-															
36 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
37 Federal Entities	1070	1071	1062	974	961	995	991	987	950	974	974	992	1070	1064	1007
38 Public Entities	95	95	106	81	66	66	66	66	66	66	66	47	103	103	78
39 Investor-Owned Entities	551	551	546	362	360	364	260	260	260	260	260	232	314	395	347
40 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
41 Total Exports.	1753	1754	1750	1453	1424	1461	1354	1349	1312	1336	1336	1306	1524	1598	1468

Table A-2: Regional Exports
PNW Loads and Resources Study
2005 - 2006 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Exports East of Continental Divide -															
1 AVWP to PPLM PwrS	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2 BPA to Other Entities	70	70	64	68	86	101	99	95	88	81	80	68	72	80	81
3 Total Exports to ECD	79	79	73	77	95	110	108	104	96	90	90	77	81	89	90
-Exports to Pacific Southwest-															
4 BPA to BART PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	1.3	37
5 BPA to BURB C/N/X	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4	5.4	5.4	3.8
6 BPA to GLEN C/N/X	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	6.0	4.2
7 BPA to MSR PwrS	94	94	91	0	0	0	0	0	0	0	0	0	0	0	15
8 BPA to Other Entities	175	175	175	210	210	210	210	210	210	210	210	210	210	210	204
9 BPA to PASA C/N/X	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	3.6	2.5
10 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
11 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
12 BPA to RVSD CapS	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
13 BPA to RVSD C/N/X	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
14 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
15 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
16 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
17 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	8.9	8.9	3.0
18 PPL to SCE PwrS	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
19 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
20 PSE to PGS S/Pwr/X	171	171	168	0	0	0	0	0	0	0	0	0	48	128	43
21 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
22 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
23 SHPD to SMUD PwrS	36	36	36	26	26	26	26	26	26	26	26	26	33	33	29
24 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
25 BPA NW-SW Intertie Losses	10	10	10	8.4	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.9	9.0	7.4	8.5
26 Total Exports To PSW	805	805	810	541	512	512	512	512	512	512	512	496	642	669	586
-Exports to Inland Southwest-															
27 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
28 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
29 Total Exports To ISW	111	111	111	81	81	81	81	81	81	111	111	111	111	111	96
-Exports to Canada-															
30 BPA to BCHP CanEnt	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535
31 Total Exports To Canada	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535
-Exports to Other Entities-															
32 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
33 Federal Entities	1036	1036	1027	935	939	954	952	948	940	964	963	983	991	945	968
34 Public Entities	95	95	106	81	66	66	66	66	66	66	66	47	103	103	78
35 Investor-Owned Entities	362	362	359	182	182	182	182	182	182	182	182	154	239	320	226
36 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
37 Total Exports.	1530	1530	1529	1234	1223	1238	1236	1232	1225	1248	1248	1219	1369	1404	1307

Table A-2: Regional Exports
PNW Loads and Resources Study
2006 - 2007 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Exports East of Continental Divide -															
1 AVWP to PPLM PwrS	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2 BPA to Other Entities	73	73	66	71	89	105	103	99	91	84	84	71	75	83	84
3 Total Exports to ECD	82	82	76	80	98	114	112	108	100	93	93	80	84	92	93
-Exports to Pacific Southwest-															
4 BPA to BURB C/N/X	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4	5.4	5.4	3.8
5 BPA to GLEN C/N/X	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	6.0	4.2
6 BPA to Other Entities	210	210	210	100	100	100	100	100	100	100	100	100	100	100	118
7 BPA to PASA C/N/X	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	3.6	2.5
8 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
9 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
10 BPA to RVSD CapS	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
11 BPA to RVSD C/N/X	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
12 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
13 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
14 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
15 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	8.9	8.9	3.0
16 PPL to SCE PwrS	54	54	54	0	0	0	0	0	0	0	0	0	0	0	9
17 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
18 PSE to PGS S/Pwr/X	171	171	168	0	0	0	0	0	0	0	0	0	48	128	43
19 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
20 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
21 SHPD to SMUD PwrS	36	36	36	26	26	26	26	26	26	26	26	26	33	33	29
22 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
23 BPA NW-SW Intertie Losses	7.4	7.4	7.4	3.9	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.4	4.5	4.1	4.4
24 Total Exports To PSW	703	703	711	333	304	304	304	304	304	304	304	287	433	501	399
-Exports to Inland Southwest-															
25 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
26 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
27 Total Exports To ISW	111	111	111	81	81	81	81	81	81	111	111	111	111	111	96
-Exports to Canada-															
28 BPA to BCHP CanEnt	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488
29 Total Exports To Canada	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488
-Exports to Other Entities-															
30 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
31 Federal Entities	891	891	884	737	741	757	755	751	743	766	766	784	793	787	783
32 Public Entities	95	95	106	81	66	66	66	66	66	66	66	47	103	103	78
33 Investor-Owned Entities	362	362	359	128	128	128	128	128	128	128	128	100	185	266	181
34 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
35 Total Exports.	1384	1384	1386	982	972	988	985	981	974	996	996	967	1117	1192	1077

**Table A-2: Regional Exports
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Exports East of Continental Divide -															
1 AVWP to PPLM PwrS	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2 BPA to Other Entities	76	76	69	74	93	110	107	103	95	88	87	74	78	86	88
3 Total Exports to ECD	85	85	78	83	102	118	116	112	104	96	96	83	87	95	97
-Exports to Pacific Southwest-															
4 BPA to BURB C/N/X	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	0	0	0	0	2.5
5 BPA to GLEN C/N/X	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	0	0	0	0	2.7
6 BPA to Other Entities	100	100	100	100	100	100	0	0	0	0	0	0	0	0	42
7 BPA to PASA C/N/X	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	0	0	0	0	1.6
8 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
9 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
10 BPA to RVSD CapS	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
11 BPA to RVSD C/N/X	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
12 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
13 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
14 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
15 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	8.9	8.9	3.0
16 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
17 PSE to PGS S/Pwr/X	171	171	168	0	0	0	0	0	0	0	0	0	0	0	28
18 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
19 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
20 SHPD to SMUD PwrS	36	36	36	0	0	0	0	0	0	0	0	0	0	0	6
21 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
22 BPA NW-SW Intertie Losses	4.1	4.1	4.1	3.9	3.4	3.4	0.4	0.4	0.4	0.4	0.2	1	1	0.7	1.9
23 Total Exports To PSW	536	536	543	307	278	278	175	175	175	175	167	147	234	221	270
-Exports to Inland Southwest-															
24 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
25 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
26 Total Exports To ISW	111	111	111	81	81	81	81	81	81	111	111	111	111	111	96
-Exports to Canada-															
27 BPA to BCHP CanEnt	483	483	483	483	483	483	483	483	483	483	483	483	483	483	483
28 Total Exports To Canada	483	483	483	483	483	483	483	483	483	483	483	483	483	483	483
-Exports to Other Entities-															
29 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
30 Federal Entities	775	775	768	734	739	756	650	646	638	661	653	667	672	667	697
31 Public Entities	95	95	106	55	40	40	40	40	40	40	40	21	70	70	55
32 Investor-Owned Entities	308	308	305	128	128	128	128	128	128	128	128	100	137	137	157
33 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
34 Total Exports.	1214	1214	1215	953	943	960	855	851	842	865	857	823	915	910	945

**Table A-2: Regional Exports
PNW Loads and Resources Study
2008 - 2009 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Exports East of Continental Divide -															
1 AVWP to PPLM PwrS	9	9	9	9	0	0	0	0	0	0	0	0	0	0	2.3
2 BPA to Other Entities	79	79	72	77	96	114	112	107	99	91	91	77	82	90	91
3 Total Exports to ECD	88	88	81	86	96	114	112	107	99	91	91	77	82	90	93
-Exports to Pacific Southwest-															
4 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
5 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
6 BPA to RVSD CapS	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
7 BPA to RVSD C/N/X	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
8 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
9 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
10 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
11 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	8.9	8.9	3.0
12 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
13 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
14 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
15 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
16 BPA NW-SW Intertie Losses	0.7	0.7	0.7	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1	1	0.7	0.5
17 Total Exports To PSW	210	210	221	192	167	167	167	167	167	167	167	147	234	221	186
-Exports to Inland Southwest-															
18 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
19 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
20 Total Exports To ISW	111	111	111	81	81	81	81	81	81	111	111	111	111	111	96
-Exports to Canada-															
21 BPA to BCHP CanEnt	465	465	465	465	465	465	465	465	465	465	465	465	465	465	465
22 Total Exports To Canada	465	465	465	465	465	465	465	465	465	465	465	465	465	465	465
-Exports to Other Entities-															
23 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
24 Federal Entities	641	641	634	605	614	631	629	625	616	639	638	652	657	652	633
25 Public Entities	59	59	70	55	40	40	40	40	40	40	40	21	70	70	49
26 Investor-Owned Entities	137	137	137	128	119	119	119	119	119	119	119	91	128	128	122
27 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
28 Total Exports.	874	874	878	824	810	827	825	820	812	834	834	799	891	887	840

**Table A-2: Regional Exports
PNW Loads and Resources Study
2009 - 2010 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Exports East of Continental Divide -															
1 BPA to Other Entities	82	82	75	80	100	118	116	111	102	94	94	80	85	93	95
2 Total Exports to ECD	82	82	75	80	100	118	116	111	102	94	94	80	85	93	95
-Exports to Pacific Southwest-															
3 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
4 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
5 BPA to RVSD CapS	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
6 BPA to RVSD C/N/X	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	0	0	1.7
7 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
8 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
9 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
10 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	8.9	8.9	3.0
11 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
12 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
13 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
14 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
15 BPA NW-SW Intertie Losses	0.7	0.7	0.7	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1	0.8	0.5	0.5
16 Total Exports To PSW	210	210	221	192	167	167	167	167	167	167	167	147	227	214	185
-Exports to Inland Southwest-															
17 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
18 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
19 Total Exports To ISW	111	111	111	81	81	81	81	81	81	111	111	111	111	111	96
-Exports to Canada-															
20 BPA to BCHP CanEnt	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534
21 Total Exports To Canada	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534
-Exports to Other Entities-															
22 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
23 Federal Entities	714	714	706	677	687	705	703	698	689	711	711	724	722	718	705
24 Public Entities	59	59	70	55	40	40	40	40	40	40	40	21	70	70	49
25 Investor-Owned Entities	128	128	128	119	119	119	119	119	119	119	119	91	128	128	120
26 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
27 Total Exports.	937	937	941	887	883	900	898	893	885	907	906	872	957	952	909

**Table A-2: Regional Exports
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Exports East of Continental Divide -															
1 BPA to Other Entities	85	85	78	83	104	123	120	116	107	98	98	83	88	97	99
2 Total Exports to ECD	85	85	78	83	104	123	120	116	107	98	98	83	88	97	99
-Exports to Pacific Southwest-															
3 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
4 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
5 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
6 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
7 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
8 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	8.9	8.9	3.0
9 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
10 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
11 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
12 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
13 BPA NW-SW Intertie Losses	0.5	0.5	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8	0.8	0.5	0.3
14 Total Exports To PSW	203	203	214	185	162	162	162	162	162	162	162	140	227	214	180
-Exports to Inland Southwest-															
15 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
16 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
17 Total Exports To ISW	111	111	111	81	81	81	81	81	81	111	111	111	111	111	96
-Exports to Canada-															
18 BPA to BCPH CanEnt	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524
19 Total Exports To Canada	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524
-Exports to Other Entities-															
20 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
21 Federal Entities	700	700	692	663	676	695	692	687	678	700	700	710	716	712	694
22 Public Entities	59	59	70	55	40	40	40	40	40	40	40	21	70	70	49
23 Investor-Owned Entities	128	128	128	119	119	119	119	119	119	119	119	91	128	128	120
24 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
25 Total Exports.	924	924	927	873	872	890	888	883	874	895	895	858	950	946	898

**Table A-2: Regional Exports
PNW Loads and Resources Study
2011 - 2012 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Exports East of Continental Divide -															
1 BPA to Other Entities	89	89	81	86	109	128	125	120	111	102	102	86	92	101	102
2 Total Exports to ECD	89	89	81	86	109	128	125	120	111	102	102	86	92	101	102
-Exports to Pacific Southwest-															
3 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
4 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
5 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
6 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
7 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
8 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	0	0	1.5
9 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
10 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
11 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
12 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
13 BPA NW-SW Intertie Losses	0.5	0.5	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8	0.8	0.5	0.3
14 Total Exports To PSW	203	203	214	185	162	162	162	162	162	162	162	140	218	205	178
-Exports to Inland Southwest-															
15 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
16 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
17 Total Exports To ISW	111	111	111	81	81	81	81	81	81	111	111	111	111	111	96
-Exports to Canada-															
18 BPA to BCHP CanEnt	513	513	513	513	513	513	513	513	513	513	513	513	513	513	513
19 Total Exports To Canada	513	513	513	513	513	513	513	513	513	513	513	513	513	513	513
-Exports to Other Entities-															
20 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
21 Federal Entities	692	692	684	656	669	689	686	681	672	693	693	703	708	704	686
22 Public Entities	59	59	70	55	40	40	40	40	40	40	40	21	70	70	49
23 Investor-Owned Entities	128	128	128	119	119	119	119	119	119	119	119	91	119	119	118
24 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
25 Total Exports.	916	916	919	865	865	884	881	877	867	888	888	850	934	930	890

**Table A-2: Regional Exports
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Exports East of Continental Divide -															
1 BPA to Other Entities	92	92	84	90	113	133	130	125	115	106	106	90	95	105	107
2 Total Exports to ECD	92	92	84	90	113	133	130	125	115	106	106	90	95	105	107
-Exports to Pacific Southwest-															
3 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
4 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
5 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
6 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
7 PGE to GLEN PwrS	20	20	20	0	0	0	0	0	0	0	0	0	0	0	3.3
8 PGE to GLEN S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
10 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
11 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
12 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
13 BPA NW-SW Intertie Losses	0.5	0.5	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8	0.8	0.5	0.3
14 Total Exports To PSW	194	194	205	165	142	142	142	142	142	142	142	120	198	185	160
-Exports to Inland Southwest-															
15 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
16 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
17 Total Exports To ISW	111	111	111	81	81	81	81	81	81	111	111	111	111	111	96
-Exports to Canada-															
18 BPA to BCHP CanEnt	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501
19 Total Exports To Canada	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501
-Exports to Other Entities-															
20 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
21 Federal Entities	684	684	676	647	662	682	679	674	664	685	685	694	700	696	679
22 Public Entities	59	59	70	55	40	40	40	40	40	40	40	21	70	70	49
23 Investor-Owned Entities	119	119	119	99	99	99	99	99	99	99	99	71	99	99	100
24 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
25 Total Exports.	898	898	901	837	837	857	854	849	839	860	860	821	905	902	864

**Table A-2: Regional Exports
PNW Loads and Resources Study
2013 - 2014 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Exports East of Continental Divide -															
1 BPA to Other Entities	96	96	87	94	117	138	135	130	120	110	110	93	99	109	111
2 Total Exports to ECD	96	96	87	94	117	138	135	130	120	110	110	93	99	109	111
-Exports to Pacific Southwest-															
3 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
4 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
5 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
6 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
7 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
8 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	0	0	5.3
9 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
10 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
11 BPA NW-SW Intertie Losses	0.5	0.5	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8	0.8	0.5	0.3
12 Total Exports To PSW	174	174	185	165	142	142	142	142	142	142	142	120	168	155	152
-Exports to Inland Southwest-															
13 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
14 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
15 Total Exports To ISW	111	111	111	81	81	81	81	81	81	111	111	111	111	111	96
-Exports to Canada-															
16 BPA to BCHP CanEnt	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490
17 Total Exports To Canada	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490
-Exports to Other Entities-															
18 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
19 Federal Entities	677	677	668	640	655	676	673	668	658	678	678	687	693	690	672
20 Public Entities	59	59	70	55	40	40	40	40	40	40	40	21	40	40	44
21 Investor-Owned Entities	99	99	99	99	99	99	99	99	99	99	99	71	99	99	97
22 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
23 Total Exports.	871	871	873	829	831	851	849	843	833	854	853	814	868	865	848

Table A-3: Regional Regulated Hydro Projects PNW Loads and Resources Study 2004 - 2005 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	18	27	37	18	18	16	14	17	18	18	28	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	170	136	396	463	519	543	455	446	462	289	133	132	181	130	341
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1729	1297	803	1038	1264	1244	945	891	885	890	897	846	1118	1300	1062
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	438	203	51	51	51	51	51	50	50	51	53	56	284	440	126
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3226	2372	1472	1952	2354	2248	1733	1654	1576	1499	1473	1456	2074	2457	1938
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	91	80	76	85	90	90	92	92	88	67	28	29	30	118	77
19 Ice Harbor	94	65	127	145	101	108	130	111	190	131	137	233	175	126	138
20 John Day	912	688	661	794	915	901	734	710	814	775	714	750	891	843	797
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	519	354	113	153	88	298	81	79	78	77	77	172	292	143	168
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	235	174	138	145	102	106	132	97	183	259	313	528	396	295	218
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	241	178	145	143	103	108	134	98	185	252	321	533	406	303	221
28 Lower Monumental	237	176	132	147	101	108	131	112	194	275	329	535	409	305	224
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	723	687	455	546	600	606	506	475	539	406	266	292	415	745	518
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	610	457	539	622	715	714	592	578	654	572	481	503	599	562	595
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13476	10457	8449	10398	11587	11753	9953	8614	9793	9578	9358	9811	12989	12472	10605
-Total Regulated Hydro w/Enc.-															
57 Federal System	9248	6885	5135	6320	7020	7142	5731	5407	5916	5561	5238	6095	7314	7806	6446
58 Public Entities	1560	1238	1348	1738	1961	1932	1748	1329	1486	1394	1625	1313	2497	1907	1681
59 Investor-Owned Entities	2436	2142	1830	2179	2420	2491	2315	1729	2243	2476	2336	2271	2986	2574	2311
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13476	10457	8449	10398	11587	11753	9953	8614	9793	9578	9358	9811	12989	12472	10605

Table A-3: Regional Regulated Hydro Projects PNW Loads and Resources Study 2005 - 2006 Operating Year 1937 Water Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	18	27	37	18	18	16	14	17	18	18	28	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	171	137	398	465	521	546	457	448	463	291	133	133	182	131	343
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1736	1302	806	1042	1270	1249	949	894	889	894	901	850	1122	1306	1066
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	440	204	52	52	51	51	51	50	51	51	53	56	285	442	126
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3246	2387	1482	1965	2370	2264	1745	1665	1586	1509	1483	1466	2089	2474	1952
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	80	76	85	90	90	92	92	88	67	28	29	30	119	77
19 Ice Harbor	93	64	125	143	100	106	128	110	188	130	136	232	174	125	137
20 John Day	915	691	664	798	919	905	738	713	818	779	717	753	894	846	800
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	520	355	113	154	90	298	81	79	78	77	77	172	293	145	168
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	232	172	136	143	101	105	130	96	180	255	309	522	391	286	215
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	238	176	143	141	101	106	132	97	183	249	317	526	401	293	218
28 Lower Monumental	234	173	130	145	100	106	130	110	192	272	325	529	404	295	220
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	726	689	457	548	603	609	508	477	541	408	268	294	417	748	521
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	612	459	542	625	718	717	595	580	656	575	483	505	601	564	597
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13506	10480	8466	10420	11617	11782	9974	8634	9808	9594	9368	9812	13004	12477	10622
-Total Regulated Hydro w/Enc.-															
57 Federal System	9278	6907	5151	6342	7050	7171	5752	5427	5931	5577	5248	6096	7328	7811	6464
58 Public Entities	1560	1238	1348	1738	2081	2050	1840	1415	1572	1406	1637	1326	2544	1977	1734
59 Investor-Owned Entities	2436	2142	1830	2179	2300	2373	2223	1643	2157	2464	2324	2259	2939	2504	2257
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13506	10480	8466	10420	11617	11782	9974	8634	9808	9594	9368	9812	13004	12477	10622

Table A-3: Regional Regulated Hydro Projects PNW Loads and Resources Study 2006 - 2007 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	18	27	37	18	18	16	14	17	18	18	28	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	171	137	399	466	522	547	458	449	464	292	133	133	182	131	343
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1746	1310	811	1048	1278	1257	955	900	894	900	906	855	1130	1314	1073
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	441	204	52	52	51	51	51	51	51	51	53	56	285	443	126
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3261	2398	1490	1975	2382	2277	1755	1673	1594	1516	1491	1473	2100	2486	1961
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	80	76	85	90	90	92	92	88	67	28	29	30	119	77
19 Ice Harbor	93	64	125	143	100	106	129	110	188	130	136	232	174	125	137
20 John Day	916	692	665	799	920	907	739	714	819	781	718	754	896	847	801
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	521	355	113	154	90	299	81	79	78	77	77	173	293	146	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	228	170	137	143	101	105	131	96	181	256	310	523	392	286	215
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	174	143	141	102	107	132	97	184	250	318	528	402	293	218
28 Lower Monumental	230	171	131	146	100	107	130	111	193	273	326	531	406	295	221
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	735	697	462	555	610	617	514	483	548	415	273	298	423	758	527
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	613	460	543	626	719	718	596	581	658	576	484	506	602	565	598
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13532	10502	8489	10448	11651	11816	10000	8658	9834	9621	9392	9837	13036	12512	10650
-Total Regulated Hydro w/Enc.-															
57 Federal System	9303	6930	5175	6370	7083	7205	5778	5451	5956	5604	5272	6121	7360	7846	6492
58 Public Entities	1645	1305	1424	1838	2081	2050	1840	1415	1572	1406	1637	1326	2544	1977	1755
59 Investor-Owned Entities	2351	2076	1753	2079	2300	2373	2223	1643	2157	2464	2324	2259	2939	2504	2236
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13532	10502	8489	10448	11651	11816	10000	8658	9834	9621	9392	9837	13036	12512	10650

Table A-3: Regional Regulated Hydro Projects PNW Loads and Resources Study 2007 - 2008 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	19	27	37	18	18	16	14	17	18	18	29	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	172	138	401	468	524	549	460	451	465	295	134	134	183	132	345
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1769	1327	823	1064	1297	1277	970	913	908	913	920	867	1147	1332	1089
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	443	205	52	52	52	51	51	51	51	52	53	56	287	445	127
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3281	2414	1500	1989	2399	2293	1767	1685	1605	1527	1502	1484	2116	2503	1975
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	81	77	86	90	91	93	93	89	67	28	29	31	120	78
19 Ice Harbor	93	64	124	142	99	105	127	109	186	130	136	232	173	124	136
20 John Day	920	695	668	803	925	911	742	718	823	785	722	757	899	851	805
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	522	357	114	155	91	299	81	80	78	78	78	173	293	149	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	227	169	136	142	101	104	129	95	179	254	307	518	388	285	213
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	173	142	140	101	106	131	96	182	248	315	523	398	292	216
28 Lower Monumental	229	170	130	144	99	106	129	109	191	270	323	526	402	294	219
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	739	700	464	557	613	619	517	485	550	418	274	300	426	761	530
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	615	461	545	629	722	721	599	584	661	579	487	509	605	567	601
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13587	10544	8518	10484	11698	11863	10034	8690	9862	9650	9416	9853	13068	12560	10686
-Total Regulated Hydro w/Enc.-															
57 Federal System	9358	6971	5203	6407	7131	7252	5812	5483	5984	5633	5296	6136	7392	7894	6527
58 Public Entities	1645	1305	1424	1838	2081	2050	1840	1415	1572	1406	1637	1326	2544	1977	1755
59 Investor-Owned Entities	2351	2076	1753	2079	2300	2373	2223	1643	2157	2464	2324	2259	2939	2504	2236
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13587	10544	8518	10484	11698	11863	10034	8690	9862	9650	9416	9853	13068	12560	10686

Table A-3: Regional Regulated Hydro Projects PNW Loads and Resources Study 2008 - 2009 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	19	27	37	18	18	16	14	17	18	18	29	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	172	138	401	468	524	549	460	451	465	295	134	134	183	132	345
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1778	1334	828	1070	1304	1284	975	918	913	919	925	872	1153	1339	1095
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	443	205	52	52	52	51	51	51	51	52	53	56	287	445	127
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3281	2414	1500	1989	2399	2293	1767	1685	1605	1527	1502	1484	2116	2503	1975
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	81	77	86	90	91	93	93	89	67	28	29	31	120	78
19 Ice Harbor	93	64	124	142	99	105	127	109	186	130	136	232	173	124	136
20 John Day	920	695	668	803	925	911	742	718	823	785	722	757	899	851	805
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	522	357	114	155	91	299	81	80	78	78	78	173	293	149	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	227	169	136	142	101	104	129	95	179	254	307	518	388	285	213
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	173	142	140	101	106	131	96	182	248	315	523	398	292	216
28 Lower Monumental	229	170	130	144	99	106	129	109	191	270	323	526	402	294	219
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	754	713	474	568	625	632	527	495	562	430	283	308	436	777	541
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	615	461	545	629	722	721	599	584	661	579	487	509	605	567	601
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13611	10564	8532	10501	11718	11883	10051	8705	9878	9667	9429	9865	13085	12583	10703
-Total Regulated Hydro w/Enc.-															
57 Federal System	9383	6991	5217	6424	7151	7272	5829	5498	6001	5650	5309	6149	7409	7918	6545
58 Public Entities	1645	1305	1424	1838	2081	2050	1840	1415	1572	1406	1637	1326	2544	1977	1755
59 Investor-Owned Entities	2351	2076	1753	2079	2300	2373	2223	1643	2157	2464	2324	2259	2939	2504	2236
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13611	10564	8532	10501	11718	11883	10051	8705	9878	9667	9429	9865	13085	12583	10703

Table A-3: Regional Regulated Hydro Projects PNW Loads and Resources Study 2009 - 2010 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	19	27	37	18	18	16	14	17	18	18	29	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	172	138	401	468	524	549	460	451	465	295	134	134	183	132	345
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1786	1341	833	1075	1312	1292	981	924	918	924	930	877	1160	1346	1101
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	443	205	52	52	52	51	51	51	51	52	53	56	287	445	127
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3281	2414	1500	1989	2399	2293	1767	1685	1605	1527	1502	1484	2116	2503	1975
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	81	77	86	90	91	93	93	89	67	28	29	31	120	78
19 Ice Harbor	93	64	124	142	99	105	127	109	186	130	136	232	173	124	136
20 John Day	920	695	668	803	925	911	742	718	823	785	722	757	899	851	805
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	522	357	114	155	91	299	81	80	78	78	78	173	293	149	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	227	169	136	142	101	104	129	95	179	254	307	518	388	285	213
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	173	142	140	101	106	131	96	182	248	315	523	398	292	216
28 Lower Monumental	229	170	130	144	99	106	129	109	191	270	323	526	402	294	219
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	770	726	483	579	638	645	538	505	573	442	291	316	447	794	553
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	615	461	545	629	722	721	599	584	661	579	487	509	605	567	601
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13636	10584	8546	10519	11738	11904	10067	8720	9895	9685	9443	9878	13102	12607	10721
-Total Regulated Hydro w/Enc.-															
57 Federal System	9408	7011	5231	6441	7171	7293	5845	5513	6017	5668	5323	6162	7426	7941	6562
58 Public Entities	1645	1305	1424	1838	2152	2120	1888	1460	1616	1459	1690	1379	2623	2040	1799
59 Investor-Owned Entities	2351	2076	1753	2079	2229	2303	2174	1599	2112	2411	2271	2205	2859	2440	2192
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13636	10584	8546	10519	11738	11904	10067	8720	9895	9685	9443	9878	13102	12607	10721

Table A-3: Regional Regulated Hydro Projects PNW Loads and Resources Study 2010 - 2011 Operating Year 1937 Water Year 2003 White Book															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	19	27	37	18	18	16	14	17	18	18	29	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	172	138	401	468	524	549	460	451	465	295	134	134	183	132	345
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1792	1345	836	1079	1317	1297	985	927	921	927	934	880	1164	1351	1105
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	443	205	52	52	52	51	51	51	51	52	53	56	287	445	127
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3281	2414	1500	1989	2399	2293	1767	1685	1605	1527	1502	1484	2116	2503	1975
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	81	77	86	90	91	93	93	89	67	28	29	31	120	78
19 Ice Harbor	93	64	124	142	99	105	127	109	186	130	136	232	173	124	136
20 John Day	920	695	668	803	925	911	742	718	823	785	722	757	899	851	805
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	522	357	114	155	91	299	81	80	78	78	78	173	293	149	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	227	169	136	142	101	104	129	95	179	254	307	518	388	285	213
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	173	142	140	101	106	131	96	182	248	315	523	398	292	216
28 Lower Monumental	229	170	130	144	99	106	129	109	191	270	323	526	402	294	219
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	786	739	493	591	650	658	549	515	584	454	299	324	457	810	564
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	615	461	545	629	722	721	599	584	661	579	487	509	605	567	601
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13658	10601	8558	10534	11756	11922	10081	8733	9909	9700	9455	9889	13117	12628	10736
-Total Regulated Hydro w/Enc.-															
57 Federal System	9429	7029	5244	6456	7188	7311	5859	5527	6032	5683	5334	6173	7441	7962	6577
58 Public Entities	1730	1363	1462	1893	2157	2124	1892	1463	1620	1461	1692	1380	2626	2043	1815
59 Investor-Owned Entities	2267	2017	1715	2024	2225	2298	2171	1595	2109	2410	2269	2204	2856	2437	2176
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13658	10601	8558	10534	11756	11922	10081	8733	9909	9700	9455	9889	13117	12628	10736

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resources Study
2011 - 2012 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	19	27	37	18	18	16	14	17	18	18	29	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	172	138	401	468	524	549	460	451	465	295	134	134	183	132	345
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1792	1345	836	1079	1317	1297	985	927	921	927	934	880	1164	1351	1105
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	443	205	52	52	52	51	51	51	51	52	53	56	287	445	127
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3281	2414	1500	1989	2399	2293	1767	1685	1605	1527	1502	1484	2116	2503	1975
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	81	77	86	90	91	93	93	89	67	28	29	31	120	78
19 Ice Harbor	93	64	124	142	99	105	127	109	186	130	136	232	173	124	136
20 John Day	920	695	668	803	925	911	742	718	823	785	722	757	899	851	805
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	522	357	114	155	91	299	81	80	78	78	78	173	293	149	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	227	169	136	142	101	104	129	95	179	254	307	518	388	285	213
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	173	142	140	101	106	131	96	182	248	315	523	398	292	216
28 Lower Monumental	229	170	130	144	99	106	129	109	191	270	323	526	402	294	219
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	802	753	502	602	663	671	559	525	595	466	308	332	467	826	576
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	615	461	545	629	722	721	599	584	661	579	487	509	605	567	601
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13674	10614	8568	10545	11768	11934	10092	8743	9920	9712	9463	9897	13127	12644	10748
-Total Regulated Hydro w/Enc.-															
57 Federal System	9445	7042	5253	6467	7201	7324	5870	5536	6043	5695	5343	6181	7451	7978	6589
58 Public Entities	1733	1366	1465	1897	2160	2128	1895	1465	1622	1462	1693	1381	2628	2046	1818
59 Investor-Owned Entities	2263	2014	1712	2020	2221	2295	2168	1593	2106	2409	2268	2203	2854	2435	2174
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13674	10614	8568	10545	11768	11934	10092	8743	9920	9712	9463	9897	13127	12644	10748

Table A-3: Regional Regulated Hydro Projects PNW Loads and Resources Study 2012 - 2013 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	19	27	37	18	18	16	14	17	18	18	29	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	172	138	401	468	525	550	460	451	465	295	134	134	183	132	345
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1793	1346	836	1080	1317	1297	985	927	922	928	934	880	1165	1352	1105
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	443	205	52	52	52	51	51	51	51	52	53	57	287	445	127
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3283	2415	1501	1990	2400	2294	1768	1686	1605	1527	1503	1484	2117	2504	1976
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	81	77	86	91	91	93	93	89	67	28	29	31	120	78
19 Ice Harbor	93	64	124	142	99	105	127	109	186	130	136	232	173	124	136
20 John Day	920	695	668	803	925	911	743	718	823	785	722	758	900	851	805
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	522	357	114	155	92	299	82	80	78	78	78	173	293	149	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	227	169	136	142	101	104	129	95	179	254	307	519	388	285	213
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	173	142	140	101	106	131	96	182	248	315	523	398	293	216
28 Lower Monumental	229	170	130	145	99	106	129	110	191	270	323	526	402	294	219
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	818	766	512	613	676	685	570	535	606	478	316	340	478	842	587
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	616	462	545	629	723	722	599	584	661	579	487	509	605	568	601
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13693	10630	8580	10559	11784	11951	10105	8755	9934	9727	9474	9908	13141	12663	10762
-Total Regulated Hydro w/Enc.-															
57 Federal System	9465	7058	5265	6481	7216	7340	5883	5549	6056	5710	5354	6191	7465	7997	6603
58 Public Entities	1736	1369	1467	1900	2166	2134	1899	1469	1626	1463	1694	1383	2632	2050	1821
59 Investor-Owned Entities	2260	2012	1710	2017	2215	2289	2163	1589	2102	2407	2267	2201	2851	2431	2170
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13693	10630	8580	10559	11784	11951	10105	8755	9934	9727	9474	9908	13141	12663	10762

Table A-3: Regional Regulated Hydro Projects PNW Loads and Resources Study 2013 - 2014 Operating Year 1937 Water Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	19	27	37	18	18	16	14	17	18	18	29	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	172	138	401	468	525	550	460	451	465	295	134	134	183	132	345
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1793	1346	836	1080	1317	1297	985	927	922	928	934	880	1165	1352	1105
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	443	205	52	52	52	51	51	51	51	52	53	57	287	445	127
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3283	2415	1501	1990	2400	2294	1768	1686	1605	1527	1503	1484	2117	2504	1976
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	81	77	86	91	91	93	93	89	67	28	29	31	120	78
19 Ice Harbor	93	64	124	142	99	105	127	109	186	130	136	232	173	124	136
20 John Day	920	695	668	803	925	911	743	718	823	785	722	758	900	851	805
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	522	357	114	155	92	299	82	80	78	78	78	173	293	149	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	227	169	136	142	101	104	129	95	179	254	307	519	388	285	213
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	173	142	140	101	106	131	96	182	248	315	523	398	293	216
28 Lower Monumental	229	170	130	145	99	106	129	110	191	270	323	526	402	294	219
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 McNary	834	779	522	624	688	697	581	544	618	491	325	348	489	858	599
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	616	462	545	629	723	722	599	584	661	579	487	509	605	568	601
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13709	10643	8589	10570	11796	11964	10116	8765	9945	9739	9482	9915	13151	12679	10773
-Total Regulated Hydro w/Enc.-															
57 Federal System	9481	7071	5275	6492	7229	7353	5894	5559	6067	5722	5362	6199	7476	8013	6614
58 Public Entities	1741	1372	1471	1905	2171	2139	1903	1473	1630	1465	1696	1384	2635	2053	1825
59 Investor-Owned Entities	2255	2008	1706	2012	2210	2284	2160	1585	2099	2406	2265	2200	2848	2428	2167
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13709	10643	8589	10570	11796	11964	10116	8765	9945	9739	9482	9915	13151	12679	10773

Table A-4: Regional Independent Hydro Projects PNW Loads and Resources Study 2004 - 2005 Operating Year 1937 Water Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Independent Hydro Projects-															
1 American Falls	55	55	35	13	0	0	0	0	5.8	20	20	67	70	75	28
2 Anderson Ranch	23	18	11	4.3	5.4	11	16	16	5.1	25	27	11	38	27	16
3 Big Cliff	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11
4 Big Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2
5 Black Canyon	10	10	7.9	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5	8.1
6 Bliss	41	41	46	44	46	46	43	40	40	39	39	38	38	37	42
7 Blue River	3.4	3.4	2.2	2.2	3.2	3.6	3.4	2.1	1.9	2.5	2.5	2.9	2.4	2.6	2.7
8 Bonneville Fishway	24	24	24	24	12	12	12	24	24	24	24	24	24	24	21
9 Bull Run	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10
10 Calispel Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0.3
11 Carmen-Smith	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
12 Cascade	13	13	10	2.4	2.2	3.2	5.6	1.8	1.1	1.1	1.1	1.1	1.2	11	4.5
13 Cedar Falls & Newhalem	2	2	2.8	7.8	11	18	9.6	6.6	8.6	18	18	25	30	2.2	12
14 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6	8.6
15 CJ Strike	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50
16 Condit Sm Plts	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26
17 Cougar	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16
18 Cowlitz Falls	10	10	7.9	6.2	3.1	23	10	14	33	48	48	64	66	29	26
19 Detroit	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41
20 Dexter	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9.3
21 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 Foster	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12
23 Gem State Hydro	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
24 Green Peter	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28
25 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
26 Hills Creek	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18
27 Hood Street	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.6
28 Idaho Falls - City Plant	6	6	6	6	6	5	6	5	5	5	5	7	7	7	5.9
29 Idaho Falls - Lower Plant	6	6	7	7	6	5	6	6	5	6	6	7	7	7	6.3
30 Idaho Falls - Upper Plant	7	7	7	7	6	5	6	6	5	6	6	7	7	7	6.3
31 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
32 Jackson	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43
33 Klamath	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35
34 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
35 Leaburg	7.5	7.5	5.5	7.5	7.5	7.1	4	13	13	13	13	13	13	10	9.5
36 Lookout Point	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35
37 Lost Creek	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30
38 Lower Salmon	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26
39 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
40 Mill Creek (WA)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
41 Milltown/Flint Creek	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.3	0.6	0	0.3
42 Milner	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2
43 Minidoka	31	31	29	12	3.1	9	2.8	2.4	2.2	14	14	31	31	31	16
44 Morse Creek	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
45 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
46 North Umpqua	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
47 Packwood	6.1	16	5.3	3.7	2.7	5.9	4	3.7	4.8	8.6	8.6	19	30	20	9.9
48 Palisades	131	131	119	55	15	15	20	23	27	21	38	95	131	131	66
49 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
50 Rogue	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
51 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13	7.9
52 Shoshone Falls	10	10	12	8.4	12	12	12	12	7.4	6.5	6.5	5.7	5.4	6.3	9.2
53 Snoq Elect & Nooksack	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
54 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
55 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6.1
56 Spring Plants	26	28	28	30	31	31	30	30	27	28	28	27	26	26	28
57 Stone Creek	4	5.8	10	10	10	1.8	7.1	0.6	4.3	5.9	4.7	6.7	6	10	6.5
58 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59 Swan Falls	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
60 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
61 Trail Bridge	3.8	3.8	3.5	3.4	3.2	3.3	3	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.5
62 TW Sullivan	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
63 Twin Falls	5	5	8	4	11	14	10	8	0	0	0	0	0	7	5.6
64 Upper Salmon 1 & 2	18	18	19	19	19	19	19	18	16	16	16	16	16	16	18
65 Upper Salmon 3 & 4	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
66 Walterville	5.4	5.8	3.8	4.6	4	5	3.1	7.2	8	6.3	6.3	9.5	9.5	7.7	6.2
67 Wynochee	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
68 Yelm	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9.4
Total Independent Hydro w/Enc.	1048	1075	1010	982	902	969	783	797	944	1212	1266	1553	1603	1160	1084
-Total Independent Hydro W/Enc.-															
69 Federal System	437	435	370	386	305	237	176	196	275	434	515	711	746	451	397
70 Public Entities	127	138	121	127	126	196	135	120	161	202	201	232	256	182	166
71 Investor-Owned Entities	484	502	519	470	471	536	472	481	509	576	551	610	601	527	521

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2004 - 2005 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1048	1075	1010	982	902	969	783	797	944	1212	1266	1553	1603	1160	1084

Table A-4: Regional Independent Hydro Projects PNW Loads and Resources Study 2005 - 2006 Operating Year 1937 Water Year 2003 White Book															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Independent Hydro Projects-															
1 American Falls	55	55	35	13	0	0	0	0	5.8	20	20	67	70	75	28
2 Anderson Ranch	23	18	11	4.3	5.4	11	16	16	5.1	25	27	11	38	27	16
3 Big Cliff	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11
4 Big Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2
5 Black Canyon	10	10	7.9	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5	8.1
6 Bliss	41	41	46	44	46	46	43	40	40	39	39	38	38	37	42
7 Blue River	3.4	3.4	2.2	2.2	3.2	3.6	3.4	2.1	1.9	2.5	2.5	2.9	2.4	2.6	2.7
8 Bonneville Fishway	24	24	24	24	12	12	12	24	24	24	24	24	24	24	21
9 Bull Run	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10
10 Calispel Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0.3
11 Carmen-Smith	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
12 Cascade	13	13	10	2.4	2.2	3.2	5.6	1.8	1.1	1.1	1.1	1.1	1.2	11	4.5
13 Cedar Falls & Newhalem	2	2	2.8	7.8	11	18	9.6	6.6	8.6	18	18	25	30	2.2	12
14 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6	8.6
15 CJ Strike	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50
16 Condit Sm Plts	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26
17 Cougar	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16
18 Cowlitz Falls	10	10	7.9	6.2	3.1	23	10	14	33	48	48	64	66	29	26
19 Detroit	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41
20 Dexter	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9.3
21 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 Foster	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12
23 Gem State Hydro	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
24 Green Peter	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28
25 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
26 Hills Creek	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18
27 Hood Street	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.6
28 Idaho Falls - City Plant	6	6	6	6	6	5	6	5	5	5	5	7	7	7	5.9
29 Idaho Falls - Lower Plant	6	6	7	7	6	5	6	6	5	6	6	7	7	7	6.3
30 Idaho Falls - Upper Plant	7	7	7	7	6	5	6	6	5	6	6	7	7	7	6.3
31 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
32 Jackson	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43
33 Klamath	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35
34 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
35 Leaburg	7.5	7.5	5.5	7.5	7.5	7.1	4	13	13	13	13	13	13	10	9.5
36 Lookout Point	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35
37 Lost Creek	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30
38 Lower Salmon	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26
39 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
40 Mill Creek (WA)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
41 Milltown/Flint Creek	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.3	0.6	0	0.3
42 Milner	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2
43 Minidoka	31	31	29	12	3.1	9	2.8	2.4	2.2	14	14	31	31	31	16
44 Morse Creek	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
45 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
46 North Umpqua	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
47 Packwood	6.1	16	5.3	3.7	2.7	5.9	4	3.7	4.8	8.6	8.6	19	30	20	9.9
48 Palisades	131	131	119	55	15	15	20	23	27	21	38	95	131	131	66
49 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
50 Rogue	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
51 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13	7.9
52 Shoshone Falls	10	10	12	8.4	12	12	12	12	7.4	6.5	6.5	5.7	5.4	6.3	9.2
53 Snoq Elect & Nooksack	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
54 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
55 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6.1
56 Spring Plants	26	28	28	30	31	31	30	30	27	28	28	27	26	26	28
57 Stone Creek	4	5.8	10	10	10	1.8	7.1	0.6	4.3	5.9	4.7	6.7	6	10	6.5
58 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59 Swan Falls	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
60 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
61 Trail Bridge	3.8	3.8	3.5	3.4	3.2	3.3	3	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.5
62 TW Sullivan	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
63 Twin Falls	5	5	8	4	11	14	10	8	0	0	0	0	0	7	5.6
64 Upper Salmon 1 & 2	18	18	19	19	19	19	19	18	16	16	16	16	16	16	18
65 Upper Salmon 3 & 4	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
66 Walterville	5.4	5.8	3.8	4.6	4	5	3.1	7.2	8	6.3	6.3	9.5	9.5	7.7	6.2
67 Wynochee	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
68 Yelm	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9.4
Total Independent Hydro w/Enc.	1048	1075	1010	983	902	969	783	797	945	1212	1266	1554	1604	1161	1084
-Total Independent Hydro W/Enc.-															
69 Federal System	437	435	370	386	305	237	176	196	275	434	515	711	747	451	397
70 Public Entities	127	138	121	127	126	196	135	120	161	202	201	232	256	182	166
71 Investor-Owned Entities	484	502	519	470	471	536	472	481	509	576	550	610	601	527	521

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2005 - 2006 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1048	1075	1010	983	902	969	783	797	945	1212	1266	1554	1604	1161	1084

Table A-4: Regional Independent Hydro Projects PNW Loads and Resources Study 2006 - 2007 Operating Year 1937 Water Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Independent Hydro Projects-															
1 American Falls	55	55	35	13	0	0	0	0	5.8	20	20	67	70	75	28
2 Anderson Ranch	23	18	11	4.3	5.4	11	16	16	5.1	25	27	11	39	28	16
3 Big Cliff	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11
4 Big Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2
5 Black Canyon	10	10	7.9	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5	8.1
6 Bliss	41	41	46	44	46	46	43	40	40	39	39	38	38	37	42
7 Blue River	3.4	3.4	2.2	2.2	3.2	3.6	3.4	2.1	1.9	2.5	2.5	2.9	2.4	2.6	2.7
8 Bonneville Fishway	24	24	24	24	12	12	12	24	24	24	24	24	24	24	21
9 Bull Run	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10
10 Calispel Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0.3
11 Carmen-Smith	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
12 Cascade	13	13	10	2.4	2.2	3.2	5.6	1.8	1.1	1.1	1.1	1.1	1.2	11	4.5
13 Cedar Falls & Newhalem	2	2	2.8	7.8	11	18	9.6	6.6	8.6	18	18	25	30	2.2	12
14 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6	8.6
15 CJ Strike	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50
16 Condit Sm Plts	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26
17 Cougar	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16
18 Cowlitz Falls	10	10	7.9	6.2	3.1	23	10	14	33	48	48	64	66	29	26
19 Detroit	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41
20 Dexter	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9.3
21 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 Foster	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12
23 Gem State Hydro	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
24 Green Peter	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28
25 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
26 Hills Creek	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18
27 Hood Street	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.6
28 Idaho Falls - City Plant	6	6	6	6	6	5	6	5	5	5	5	7	7	7	5.9
29 Idaho Falls - Lower Plant	6	6	7	7	6	5	6	6	5	6	6	7	7	7	6.3
30 Idaho Falls - Upper Plant	7	7	7	7	6	5	6	6	5	6	6	7	7	7	6.3
31 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
32 Jackson	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43
33 Klamath	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35
34 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
35 Leaburg	7.5	7.5	5.5	7.5	7.5	7.1	4	13	13	13	13	13	13	10	9.5
36 Lookout Point	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35
37 Lost Creek	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30
38 Lower Salmon	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26
39 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
40 Mill Creek (WA)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
41 Milltown/Flint Creek	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.3	0.7	0	0.3
42 Milner	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2
43 Minidoka	31	31	29	12	3.1	9	2.8	2.4	2.2	14	14	31	31	31	16
44 Morse Creek	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
45 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
46 North Umpqua	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
47 Packwood	6.1	16	5.3	3.7	2.7	5.9	4	3.7	4.8	8.6	8.6	19	30	20	9.9
48 Palisades	132	132	119	55	15	15	20	23	27	21	38	95	132	132	66
49 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
50 Rogue	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
51 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13	7.9
52 Shoshone Falls	10	10	12	8.4	12	12	12	12	7.4	6.5	6.5	5.7	5.4	6.3	9.2
53 Snoq Elect & Nooksack	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
54 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
55 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6.1
56 Spring Plants	26	28	28	30	31	31	30	30	27	28	28	27	26	26	28
57 Stone Creek	4	5.8	10	10	10	1.8	7.1	0.6	4.3	5.9	4.7	6.7	6	10	6.5
58 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59 Swan Falls	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
60 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
61 Trail Bridge	3.8	3.8	3.5	3.4	3.2	3.3	3	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.5
62 TW Sullivan	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
63 Twin Falls	5	5	8	4	11	14	10	8	0	0	0	0	0	7	5.6
64 Upper Salmon 1 & 2	18	18	19	19	19	19	19	18	16	16	16	16	16	16	18
65 Upper Salmon 3 & 4	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
66 Walterville	5.4	5.8	3.8	4.6	4	5	3.1	7.2	8	6.3	6.3	9.5	9.5	7.7	6.2
67 Wynochee	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
68 Yelm	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9.4
Total Independent Hydro w/Enc.	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085
-Total Independent Hydro W/Enc.-															
69 Federal System	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
70 Public Entities	127	138	121	127	126	196	135	120	161	202	201	232	256	182	166
71 Investor-Owned Entities	484	502	519	470	471	536	472	481	509	576	551	610	601	527	521

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2006 - 2007 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085

Table A-4: Regional Independent Hydro Projects PNW Loads and Resources Study 2007 - 2008 Operating Year 1937 Water Year 2003 White Book															
3/31/2004															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Independent Hydro Projects-															
1 American Falls	55	55	35	13	0	0	0	0	5.8	20	20	67	70	75	28
2 Anderson Ranch	23	18	11	4.3	5.4	11	16	16	5.1	25	27	11	39	28	16
3 Big Cliff	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11
4 Big Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2
5 Black Canyon	10	10	7.9	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5	8.1
6 Bliss	41	41	46	44	46	46	43	40	40	39	39	38	38	37	42
7 Blue River	3.4	3.4	2.2	2.2	3.2	3.6	3.4	2.1	1.9	2.5	2.5	2.9	2.4	2.6	2.7
8 Bonneville Fishway	24	24	24	24	12	12	12	24	24	24	24	24	24	24	21
9 Bull Run	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10
10 Calispel Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0.3
11 Carmen-Smith	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
12 Cascade	13	13	10	2.4	2.2	3.2	5.6	1.8	1.1	1.1	1.1	1.1	1.2	11	4.5
13 Cedar Falls & Newhalem	2	2	2.8	7.8	11	18	9.6	6.6	8.6	18	18	25	30	2.2	12
14 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6	8.6
15 CJ Strike	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50
16 Condit Sm Plts	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26
17 Cougar	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16
18 Cowlitz Falls	10	10	7.9	6.2	3.1	23	10	14	33	48	48	64	66	29	26
19 Detroit	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41
20 Dexter	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9.3
21 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 Foster	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12
23 Gem State Hydro	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
24 Green Peter	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28
25 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
26 Hills Creek	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18
27 Hood Street	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.6
28 Idaho Falls - City Plant	6	6	6	6	6	5	6	5	5	5	5	7	7	7	5.9
29 Idaho Falls - Lower Plant	6	6	7	7	6	5	6	6	5	6	6	7	7	7	6.3
30 Idaho Falls - Upper Plant	7	7	7	7	6	5	6	6	5	6	6	7	7	7	6.3
31 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
32 Jackson	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43
33 Klamath	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35
34 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
35 Leaburg	7.5	7.5	5.5	7.5	7.5	7.1	4	13	13	13	13	13	13	10	9.5
36 Lookout Point	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35
37 Lost Creek	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30
38 Lower Salmon	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26
39 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
40 Mill Creek (WA)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
41 Milltown/Flint Creek	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.3	0.6	0	0.3
42 Milner	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2
43 Minidoka	31	31	29	12	3.1	9	2.8	2.4	2.2	14	14	31	31	31	16
44 Morse Creek	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
45 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
46 North Umpqua	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
47 Packwood	6.1	16	5.3	3.7	2.7	5.9	4	3.7	4.8	8.6	8.6	19	30	20	9.9
48 Palisades	132	132	119	55	15	15	20	23	27	21	38	95	132	132	66
49 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
50 Rogue	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
51 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13	7.9
52 Shoshone Falls	10	10	12	8.4	12	12	12	12	7.4	6.5	6.5	5.7	5.4	6.3	9.2
53 Snoq Elect & Nooksack	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
54 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
55 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6.1
56 Spring Plants	26	28	28	30	31	31	30	30	27	28	28	27	26	26	28
57 Stone Creek	4	5.8	10	10	10	1.8	7.1	0.6	4.3	5.9	4.7	6.7	6	10	6.5
58 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59 Swan Falls	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
60 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
61 Trail Bridge	3.8	3.8	3.5	3.4	3.2	3.3	3	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.5
62 TW Sullivan	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
63 Twin Falls	5	5	8	4	11	14	10	8	0	0	0	0	0	7	5.6
64 Upper Salmon 1 & 2	18	18	19	19	19	19	19	18	16	16	16	16	16	16	18
65 Upper Salmon 3 & 4	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
66 Walterville	5.4	5.8	3.8	4.6	4	5	3.1	7.2	8	6.3	6.3	9.5	9.5	7.7	6.2
67 Wynochee	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
68 Yelm	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9.4
Total Independent Hydro w/Enc.	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085
-Total Independent Hydro W/Enc.-															
69 Federal System	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
70 Public Entities	127	138	121	127	126	196	135	120	161	202	201	232	256	182	166
71 Investor-Owned Entities	484	502	519	470	471	536	472	481	509	576	551	610	601	527	521

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2008 - 2009 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2009 - 2010 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2010 - 2011 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2011 - 2012 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085

Table A-4: Regional Independent Hydro Projects PNW Loads and Resources Study 2012 - 2013 Operating Year 1937 Water Year 2003 White Book															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Independent Hydro Projects-															
1 American Falls	55	55	35	13	0	0	0	0	5.8	20	20	67	70	75	28
2 Anderson Ranch	23	18	11	4.3	5.4	11	16	16	5.1	26	27	11	39	28	16
3 Big Cliff	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11
4 Big Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2
5 Black Canyon	10	10	7.9	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5	8.1
6 Bliss	41	41	46	44	46	46	43	40	40	39	39	38	38	37	42
7 Blue River	3.4	3.4	2.2	2.2	3.2	3.6	3.4	2.1	1.9	2.5	2.5	2.9	2.4	2.6	2.7
8 Bonneville Fishway	24	24	24	24	12	12	12	24	24	24	24	24	24	24	21
9 Bull Run	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10
10 Calispel Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0.3
11 Carmen-Smith	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
12 Cascade	13	13	10	2.4	2.2	3.2	5.6	1.8	1.1	1.1	1.1	1.1	1.2	11	4.5
13 Cedar Falls & Newhalem	2	2	2.8	7.8	11	18	9.6	6.6	8.6	18	18	25	30	2.2	12
14 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6	8.6
15 CJ Strike	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50
16 Condit Sm Plts	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26
17 Cougar	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16
18 Cowlitz Falls	10	10	7.9	6.2	3.1	23	10	14	33	48	48	64	66	29	26
19 Detroit	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41
20 Dexter	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9.3
21 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 Foster	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12
23 Gem State Hydro	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
24 Green Peter	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28
25 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
26 Hills Creek	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18
27 Hood Street	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.6
28 Idaho Falls - City Plant	6	6	6	6	6	5	6	5	5	5	5	7	7	7	5.9
29 Idaho Falls - Lower Plant	6	6	7	7	6	5	6	6	5	6	6	7	7	7	6.3
30 Idaho Falls - Upper Plant	7	7	7	7	6	5	6	6	5	6	6	7	7	7	6.3
31 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
32 Jackson	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43
33 Klamath	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35
34 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
35 Leaburg	7.5	7.5	5.5	7.5	7.5	7.1	4	13	13	13	13	13	13	10	9.5
36 Lookout Point	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35
37 Lost Creek	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30
38 Lower Salmon	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26
39 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
40 Mill Creek (WA)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
41 Milltown/Flint Creek	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.3	0.3	0.4	0.8	0	0.4
42 Milner	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2
43 Minidoka	31	31	29	12	3.1	9	2.8	2.4	2.2	14	14	31	31	31	16
44 Morse Creek	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
45 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
46 North Umpqua	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
47 Packwood	6.1	16	5.3	3.7	2.7	5.9	4	3.7	4.8	8.6	8.6	19	30	20	9.9
48 Palisades	132	132	120	55	15	15	20	23	27	21	38	95	132	132	66
49 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
50 Rogue	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
51 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13	7.9
52 Shoshone Falls	10	10	12	8.4	12	12	12	12	7.4	6.5	6.5	5.7	5.4	6.3	9.2
53 Snoq Elect & Nooksack	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
54 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
55 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6.1
56 Spring Plants	26	28	28	30	31	31	30	30	27	28	28	27	26	26	28
57 Stone Creek	4	5.8	10	10	10	1.8	7.1	0.6	4.3	5.9	4.7	6.7	6	10	6.5
58 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59 Swan Falls	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
60 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
61 Trail Bridge	3.8	3.8	3.5	3.4	3.2	3.3	3	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.5
62 TW Sullivan	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
63 Twin Falls	5	5	8	4	11	14	10	8	0	0	0	0	0	7	5.6
64 Upper Salmon 1 & 2	18	18	19	19	19	19	19	18	16	16	16	16	16	16	18
65 Upper Salmon 3 & 4	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
66 Walterville	5.4	5.8	3.8	4.6	4	5	3.1	7.2	8	6.3	6.3	9.5	9.5	7.7	6.2
67 Wynochee	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
68 Yelm	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9.4
Total Independent Hydro w/Enc.	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085
-Total Independent Hydro W/Enc.-															
69 Federal System	438	436	371	386	306	237	176	197	275	435	516	713	748	452	398
70 Public Entities	127	138	121	127	126	196	135	120	161	202	201	232	256	182	166
71 Investor-Owned Entities	484	502	519	470	471	536	472	482	509	577	551	610	601	527	521

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085

Table A-4: Regional Independent Hydro Projects PNW Loads and Resources Study 2013 - 2014 Operating Year 1937 Water Year 2003 White Book															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Independent Hydro Projects-															
1 American Falls	55	55	35	13	0	0	0	0	5.8	20	20	67	70	75	28
2 Anderson Ranch	23	18	11	4.3	5.4	11	16	16	5.1	26	27	11	39	28	16
3 Big Cliff	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11
4 Big Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2
5 Black Canyon	10	10	7.9	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5	8.1
6 Bliss	41	41	46	44	46	46	43	40	40	39	39	38	38	37	42
7 Blue River	3.4	3.4	2.2	2.2	3.2	3.6	3.4	2.1	1.9	2.5	2.5	2.9	2.4	2.6	2.7
8 Bonneville Fishway	24	24	24	24	12	12	12	24	24	24	24	24	24	24	21
9 Bull Run	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10
10 Calispel Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0.3
11 Carmen-Smith	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
12 Cascade	13	13	10	2.4	2.2	3.2	5.6	1.8	1.1	1.1	1.1	1.1	1.2	11	4.5
13 Cedar Falls & Newhalem	2	2	2.8	7.8	11	18	9.6	6.6	8.6	18	18	25	30	2.2	12
14 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6	8.6
15 CJ Strike	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50
16 Condit Sm Plts	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26
17 Cougar	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16
18 Cowlitz Falls	10	10	7.9	6.2	3.1	23	10	14	33	48	48	64	66	29	26
19 Detroit	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41
20 Dexter	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9.3
21 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 Foster	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12
23 Gem State Hydro	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
24 Green Peter	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28
25 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
26 Hills Creek	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18
27 Hood Street	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.6
28 Idaho Falls - City Plant	6	6	6	6	6	5	6	5	5	5	5	7	7	7	5.9
29 Idaho Falls - Lower Plant	6	6	7	7	6	5	6	6	5	6	6	7	7	7	6.3
30 Idaho Falls - Upper Plant	7	7	7	7	6	5	6	6	5	6	6	7	7	7	6.3
31 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
32 Jackson	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43
33 Klamath	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35
34 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
35 Leaburg	7.5	7.5	5.5	7.5	7.5	7.1	4	13	13	13	13	13	13	10	9.5
36 Lookout Point	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35
37 Lost Creek	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30
38 Lower Salmon	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26
39 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
40 Mill Creek (WA)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
41 Milltown/Flint Creek	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.6	0.3	0.3	0.4	0.6	0	0.3
42 Milner	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2
43 Minidoka	31	31	29	12	3.1	9	2.8	2.4	2.2	14	14	31	31	31	16
44 Morse Creek	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
45 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
46 North Umpqua	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
47 Packwood	6.1	16	5.3	3.7	2.7	5.9	4	3.7	4.8	8.6	8.6	19	30	20	9.9
48 Palisades	132	132	120	55	15	15	20	23	27	21	38	95	132	132	66
49 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
50 Rogue	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
51 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13	7.9
52 Shoshone Falls	10	10	12	8.4	12	12	12	12	7.4	6.5	6.5	5.7	5.4	6.3	9.2
53 Snoq Elect & Nooksack	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
54 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
55 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6.1
56 Spring Plants	26	28	28	30	31	31	30	30	27	28	28	27	26	26	28
57 Stone Creek	4	5.8	10	10	10	1.8	7.1	0.6	4.3	5.9	4.7	6.7	6	10	6.5
58 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59 Swan Falls	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
60 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
61 Trail Bridge	3.8	3.8	3.5	3.4	3.2	3.3	3	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.5
62 TW Sullivan	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
63 Twin Falls	5	5	8	4	11	14	10	8	0	0	0	0	0	7	5.6
64 Upper Salmon 1 & 2	18	18	19	19	19	19	19	18	16	16	16	16	16	16	18
65 Upper Salmon 3 & 4	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
66 Walterville	5.4	5.8	3.8	4.6	4	5	3.1	7.2	8	6.3	6.3	9.5	9.5	7.7	6.2
67 Wynochee	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
68 Yelm	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9.4
Total Independent Hydro w/Enc.	1049	1076	1011	983	903	970	783	798	945	1213	1268	1555	1605	1161	1085
-Total Independent Hydro W/Enc.-															
69 Federal System	438	436	371	386	306	237	176	197	275	435	516	713	748	452	398
70 Public Entities	127	138	121	127	126	196	135	120	161	202	201	232	256	182	166
71 Investor-Owned Entities	484	502	519	470	471	536	472	482	509	577	551	610	601	527	521

Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2013 - 2014 Operating Year
1937 Water Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
72 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	970	783	798	945	1213	1268	1555	1605	1161	1085

**Table A-5: Regional Imports
PNW Loads and Resources Study
2004 - 2005 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Imports From East of Continental Divide-															
1 BEPC To NWE PwrS	0	0	0	0	84	84	84	84	84	84	84	0	0	0	42
2 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
4 PPL To PPL PwrS	206	206	124	149	163	241	236	226	184	189	189	199	208	224	196
5 PPLM To IPC PwrS	14	14	0	0	0	0	0	0	0	0	0	0	46	43	8.6
6 Total Imports From ECD	233	233	166	257	408	540	509	455	385	363	363	199	272	301	341
-Imports From Pacific Southwest-															
7 ANHM To BPA PwrX	0	0	0	20	20	20	20	20	20	0	0	0	0	0	10
8 BURB To BPA XchgNrg	2.6	2.6	2.6	2.6	3.8	5	5	5	5	5	2.6	2.6	2.6	2.6	3.6
9 BURB To BPA PkRepl	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4	5.4	5.4	3.8
10 GLEN To BPA XchgNrg	2.9	2.9	2.9	2.9	4.2	5.6	5.6	5.6	5.6	5.6	2.9	2.9	2.9	2.9	4
11 GLEN To BPA PkRepl	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	6.0	4.2
12 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
13 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
14 PASA To BPA XchgNrg	1.7	1.7	1.7	1.7	2.5	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	2.4
15 PASA To BPA PkRepl	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	3.6	2.5
16 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
17 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
18 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
19 PG&E To PSE S/Pwr/X	0	0	0	0	134	195	161	61	0	0	0	0	0	0	46
20 RVSD To BPA XchgNrg	0	0	0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	0	0	0	0	3.1
21 RVSD To BPA PkRepl	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
22 RVSD To BPA PkRepl	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
23 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
24 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
25 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
26 Total Imports From PSW	44	44	48	66	247	318	284	184	112	66	28	25	29	44	121
-Imports From Inland Southwest-															
27 Other Entities To BPA	50	50	50	50	50	50	50	50	50	50	50	0	0	50	42
28 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
29 WAPA To GLEC ARP	3.3	3.3	3.1	2.9	3.3	3.7	3.8	4	3.3	3.3	3.3	2.8	3.1	3.3	3.3
30 Total Imports From ISW	128	128	128	98	98	99	99	99	98	128	128	78	78	128	105
-Imports From Canada-															
31 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
33 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
34 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
35 Federal System	183	183	216	270	338	395	369	325	295	276	238	101	123	204	256
36 Public Entities	21	21	16	21	62	79	92	101	93	37	37	28	39	27	51
37 Investor-Owned Entities	220	220	124	149	389	529	490	380	268	273	273	199	254	268	295
38 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Total Imports.	424	424	357	441	789	1004	951	806	656	585	548	329	417	499	603

Table A-5: Regional Imports PNW Loads and Resources Study 2005 - 2006 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Imports From East of Continental Divide-															
1 BEPC To NWE PwrS	0	0	0	0	84	84	84	84	84	84	84	0	0	0	42
2 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
4 PPL To PPL PwrS	215	215	193	191	224	233	231	218	162	172	172	121	206	202	197
5 PPLM To IPC PwrS	46	46	0	0	0	0	0	0	0	0	0	0	46	43	11
6 Total Imports From ECD	275	275	235	299	469	532	504	447	362	345	345	121	270	279	345
-Imports From Pacific Southwest-															
7 BURB To BPA XchgNrg	2.6	2.6	2.6	2.6	3.8	5	5	5	5	5	2.6	2.6	2.6	2.6	3.6
8 BURB To BPA PkRepl	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4	5.4	5.4	3.8
9 GLEN To BPA XchgNrg	2.9	2.9	2.9	2.9	4.2	5.6	5.6	5.6	5.6	5.6	2.9	2.9	2.9	2.9	4
10 GLEN To BPA PkRepl	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	6.0	4.2
11 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
12 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
13 PASA To BPA XchgNrg	1.7	1.7	1.7	1.7	2.5	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	2.4
14 PASA To BPA PkRepl	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	3.6	2.5
15 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
16 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
17 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
18 PG&E To PSE S/Pwr/X	0	0	0	0	134	195	161	61	0	0	0	0	0	0	46
19 RVSD To BPA XchgNrg	0	0	0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	0	0	0	0	3.1
20 RVSD To BPA PkRepl	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
21 RVSD To BPA PkRepl	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
22 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
23 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
24 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
25 Total Imports From PSW	44	44	48	46	227	298	264	164	92	66	28	25	29	44	111
-Imports From Inland Southwest-															
26 Other Entities To BPA	50	50	50	50	50	50	50	50	50	50	50	0	0	50	42
27 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
28 WAPA To GLEC ARP	3.3	3.3	3.1	2.9	3.3	3.7	3.8	4	3.3	3.3	3.3	2.8	3.1	3.3	3.3
29 Total Imports From ISW	128	128	128	98	98	99	99	99	98	128	128	78	78	128	105
-Imports From Canada-															
30 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
32 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
33 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
34 Federal System	183	183	216	250	318	375	349	305	275	276	238	101	123	204	246
35 Public Entities	21	21	16	21	62	79	92	101	93	37	37	28	39	27	51
36 Investor-Owned Entities	262	262	193	191	450	521	485	372	246	256	256	121	252	245	300
37 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Imports.	466	466	426	462	830	976	926	778	613	568	530	251	415	476	597

<div> <div>Table A-5: Regional Imports</div> <div>PNW Loads and Resources Study</div> <div>2006 - 2007 Operating Year</div> <div>2003 White Book</div> </div>															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Imports From East of Continental Divide-															
1 BEPC To NWE PwrS	0	0	0	0	84	84	84	84	84	84	84	0	0	0	42
2 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
4 PPL To PPL PwrS	126	126	137	132	158	176	165	155	115	122	122	88	143	140	138
5 PPLM To IPC PwrS	46	46	0	0	0	0	0	0	0	0	0	0	46	43	11
6 Total Imports From ECD	186	186	179	240	403	475	438	384	316	296	296	88	207	217	286
-Imports From Pacific Southwest-															
7 BURB To BPA XchgNrg	2.6	2.6	2.6	2.6	3.8	5	5	5	5	5	2.6	2.6	2.6	2.6	3.6
8 BURB To BPA PkRepl	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4	5.4	5.4	3.8
9 GLEN To BPA XchgNrg	2.9	2.9	2.9	2.9	4.2	5.6	5.6	5.6	5.6	5.6	2.9	2.9	2.9	2.9	4
10 GLEN To BPA PkRepl	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	6.0	4.2
11 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
12 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
13 PASA To BPA XchgNrg	1.7	1.7	1.7	1.7	2.5	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	2.4
14 PASA To BPA PkRepl	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	3.6	2.5
15 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
16 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
17 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
18 PG&E To PSE S/Pwr/X	0	0	0	0	134	195	161	61	0	0	0	0	0	0	46
19 RVSD To BPA XchgNrg	0	0	0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	0	0	0	0	3.1
20 RVSD To BPA PkRepl	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
21 RVSD To BPA PkRepl	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
22 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
23 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
24 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
25 Total Imports From PSW	44	44	48	46	227	298	264	164	92	66	28	25	29	44	111
-Imports From Inland Southwest-															
26 Other Entities To BPA	50	50	50	50	50	50	0	0	0	0	0	0	0	0	21
27 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
28 WAPA To GLEC ARP	3.3	3.3	3.1	0	0	0	0	0	0	0	0	0	0	0	0.5
29 Total Imports From ISW	128	128	128	95	95	95	45	45	45	75	75	75	75	75	81
-Imports From Canada-															
30 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
32 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
33 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
34 Federal System	183	183	216	250	318	375	299	255	225	226	188	101	123	154	226
35 Public Entities	21	21	16	18	58	75	88	97	89	34	34	26	36	24	49
36 Investor-Owned Entities	173	173	137	132	384	464	419	309	199	206	206	88	189	183	240
37 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Imports.	377	377	369	401	761	914	806	661	513	465	427	215	348	361	514

**Table A-5: Regional Imports
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Imports From East of Continental Divide-															
1 BEPC To NWE PwrS	0	0	0	0	84	84	84	84	84	84	84	0	0	0	42
2 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
4 PPL To PPL PwrS	160	160	98	136	152	200	140	182	144	146	146	135	169	178	153
5 PPLM To IPC PwrS	46	46	0	0	0	0	0	0	0	0	0	0	44	45	11
6 Total Imports From ECD	220	220	140	244	397	499	413	411	345	320	320	135	232	257	301
-Imports From Pacific Southwest-															
7 BURB To BPA XchgNrg	2.6	2.6	2.6	2.6	3.8	5	5	5	5	5	0	0	0	0	2.9
8 BURB To BPA PkRepl	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	0	0	0	0	2.5
9 GLEN To BPA XchgNrg	2.9	2.9	2.9	2.9	4.2	5.6	5.6	5.6	5.6	5.6	0	0	0	0	3.2
10 GLEN To BPA PkRepl	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	0	0	0	0	2.7
11 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
12 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
13 PASA To BPA XchgNrg	1.7	1.7	1.7	1.7	2.5	3.4	3.4	3.4	3.4	3.4	0	0	0	0	1.9
14 PASA To BPA PkRepl	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	0	0	0	0	1.6
15 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
16 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
17 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
18 PG&E To PSE S/Pwr/X	0	0	0	0	134	195	0	0	0	0	0	0	0	0	27
19 RVSD To BPA XchgNrg	0	0	0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	0	0	0	0	3.1
20 RVSD To BPA PkRepl	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
21 RVSD To BPA PkRepl	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
22 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
23 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
24 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
25 Total Imports From PSW	44	44	48	46	227	298	103	103	92	66	14	6.8	6.8	22	86
-Imports From Inland Southwest-															
26 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
27 Total Imports From ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
-Imports From Canada-															
28 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
30 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
31 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
32 Federal System	133	133	166	200	268	325	299	255	225	226	173	83	101	132	199
33 Public Entities	18	18	13	18	58	75	88	97	89	34	34	26	36	24	48
34 Investor-Owned Entities	207	207	98	136	378	488	233	275	228	230	230	135	213	223	237
35 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Imports.	357	357	277	355	704	889	620	627	543	489	437	243	351	379	484

**Table A-5: Regional Imports
PNW Loads and Resources Study
2008 - 2009 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Imports From East of Continental Divide-															
1 BEPC To NWE PwrS	0	0	0	0	84	84	84	84	84	84	84	0	0	0	42
2 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
4 PPL To PPL PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 PPLM To IPC PwrS	45	45	0	0	0	0	0	0	0	0	0	0	46	45	11
6 Total Imports From ECD	58	58	42	108	245	299	273	229	201	174	174	0.1	64	78	148
-Imports From Pacific Southwest-															
7 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
8 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
9 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
10 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
11 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
12 PG&E To PSE S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 RVSD To BPA XchgNrg	0	0	0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	0	0	0	0	3.1
14 RVSD To BPA PkRepl	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
15 RVSD To BPA PkRepl	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
16 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
17 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
18 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
19 Total Imports From PSW	22	22	26	27	75	82	82	82	71	45	14	6.8	6.8	22	44
-Imports From Inland Southwest-															
20 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
21 Total Imports From ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
-Imports From Canada-															
22 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
24 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
25 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
26 Federal System	111	111	144	182	249	304	277	234	203	204	173	83	101	132	184
27 Public Entities	18	18	13	18	58	75	88	97	89	34	34	26	36	24	48
28 Investor-Owned Entities	45	45	0	0	93	93	93	93	84	84	84	0	46	45	56
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Imports.	173	173	157	200	401	472	458	424	377	322	291	109	184	200	288

Table A-5: Regional Imports
PNW Loads and Resources Study
2009 - 2010 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Imports From East of Continental Divide-															
1 BEPC To NWE PwrS	0	0	0	0	84	84	84	84	84	84	84	0	0	0	42
2 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
4 PPLM To IPC PwrS	45	45	0	0	0	0	0	0	0	0	0	0	0	0	3.7
5 Total Imports From ECD	58	58	42	108	245	299	273	229	201	174	174	0.1	18	34	140
-Imports From Pacific Southwest-															
6 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
7 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
8 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
9 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
10 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
11 RVSD To BPA XchgNrg	0	0	0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	0	0	0	0	3.1
12 RVSD To BPA PkRepl	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
13 RVSD To BPA PkRepl	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	0	0	1.7
14 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
15 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
16 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
17 Total Imports From PSW	22	22	26	27	75	82	82	82	71	45	14	6.8	0	15	43
-Imports From Inland Southwest-															
18 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
19 Total Imports From ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
-Imports From Canada-															
20 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
22 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
23 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
24 Federal System	111	111	144	182	249	304	277	234	203	204	173	83	94	125	183
25 Public Entities	18	18	13	18	58	75	88	97	89	34	34	26	36	24	48
26 Investor-Owned Entities	45	45	0	0	93	93	93	93	84	84	84	0	0	0	49
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Imports.	173	173	157	200	401	472	458	424	377	322	291	109	130	149	280

Table A-5: Regional Imports
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Imports From East of Continental Divide-															
1 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
3 Total Imports From ECD	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
-Imports From Pacific Southwest-															
4 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
5 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
6 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
7 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
8 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
9 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
10 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
11 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
12 Total Imports From PSW	15	15	19	15	65	71	71	71	60	34	8.9	0	0	15	35
-Imports From Inland Southwest-															
13 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
14 Total Imports From ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
-Imports From Canada-															
15 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
17 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
18 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
19 Federal System	104	104	137	169	239	293	267	223	193	194	168	76	94	125	175
20 Public Entities	18	18	13	18	58	75	88	97	89	34	34	26	36	24	48
21 Investor-Owned Entities	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
22 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Total Imports.	122	122	150	188	306	377	364	329	282	227	202	102	130	149	226

**Table A-5: Regional Imports
PNW Loads and Resources Study
2011 - 2012 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Imports From East of Continental Divide-															
1 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
3 Total Imports From ECD	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
-Imports From Pacific Southwest-															
4 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
5 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
6 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
7 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
8 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
9 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
10 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
11 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
12 Total Imports From PSW	15	15	19	15	65	71	71	71	60	34	8.9	0	0	15	35
-Imports From Inland Southwest-															
13 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
14 Total Imports From ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
-Imports From Canada-															
15 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
17 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
18 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
19 Federal System	104	104	137	169	239	293	267	223	193	194	168	76	94	125	175
20 Public Entities	18	18	13	18	58	75	88	97	89	34	34	26	36	24	48
21 Investor-Owned Entities	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
22 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Total Imports.	122	122	150	188	306	377	364	329	282	227	202	102	130	149	226

**Table A-5: Regional Imports
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Imports From East of Continental Divide-															
1 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
3 Total Imports From ECD	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
-Imports From Pacific Southwest-															
4 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
5 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
6 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
7 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
8 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
9 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
10 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
11 Total Imports From PSW	15	15	19	15	56	62	62	62	60	34	8.9	0	0	15	32
-Imports From Inland Southwest-															
12 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
13 Total Imports From ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
-Imports From Canada-															
14 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
16 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
17 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
18 Federal System	104	104	137	169	239	293	267	223	193	194	168	76	94	125	175
19 Public Entities	18	18	13	18	58	75	88	97	89	34	34	26	36	24	48
20 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Imports.	122	122	150	188	297	369	355	320	282	227	202	102	130	149	223

**Table A-5: Regional Imports
PNW Loads and Resources Study
2013 - 2014 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Imports From East of Continental Divide-															
1 NWE To NWE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
3 Total Imports From ECD	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
-Imports From Pacific Southwest-															
4 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
5 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
6 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
7 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
8 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
9 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
10 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
11 Total Imports From PSW	15	15	19	15	56	62	62	62	60	34	8.9	0	0	15	32
-Imports From Inland Southwest-															
12 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
13 Total Imports From ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
-Imports From Canada-															
14 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
16 Total Imports From Canada	19	19	14	20	36	46	59	68	60	28	28	27	37	25	37
-Imports From Other Entities-															
17 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
18 Federal System	104	104	137	169	239	293	267	223	193	194	168	76	94	125	175
19 Public Entities	18	18	13	18	58	75	88	97	89	34	34	26	36	24	48
20 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Total Imports.	122	122	150	188	297	369	355	320	282	227	202	102	130	149	223

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**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2004 - 2005 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	233	233	236	241	243	246	248	246	243	244	244	0	242	233	221
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	373	373	376	382	385	388	391	262	258	259	259	8	257	373	309
-Investor-Owned Entities-															
13 Basin Creek Project	0	0	0	4	4	4	4	4	4	4	4	4	4	4	3.3
14 Beaver	459	459	453	475	471	435	478	488	362	423	423	472	466	459	453
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	140	140	159	115	83	69	66	66	58	64	64	53	50	100	85
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	23	107	107	95	62	9	0	0	0	31
22 Fredonia 3&4	44	44	82	25	0	0	7	0	0	0	0	0	0	5	14
23 Fredrickson 1&2	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0.8
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Total Investor-Owned Entities	1096	1096	1156	1072	1011	984	1115	993	847	881	828	536	848	1021	961
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	373	373	376	382	385	388	391	262	258	259	259	8	257	373	309
35 Investor-Owned Entities	1096	1096	1156	1072	1011	984	1115	993	847	881	828	536	848	1021	961
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2206	2206	2269	2191	2137	2119	2252	2002	1841	1594	1541	1266	1372	2131	1946

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2005 - 2006 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	233	233	236	241	243	246	248	246	243	244	244	165	242	233	235
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	373	373	376	382	385	388	391	262	258	259	259	173	257	373	323
-Investor-Owned Entities-															
13 Basin Creek Project	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 Beaver	459	453	475	471	435	478	488	362	423	423	472	466	459	459	452
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	138	138	163	151	83	79	76	96	78	70	70	48	45	130	96
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	17	79	79	86	30	0	0	9	0	24
22 Fredonia 3&4	47	47	92	62	0	6	15	0	11	4	4	0	0	38	23
23 Fredrickson 1&2	0	0	26	4	0	0	18	0	0	0	0	0	0	0	4
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0.5
27 Total Investor-Owned Entities	1101	1095	1213	1145	975	1037	1139	869	930	859	878	525	845	1084	977
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	373	373	376	382	385	388	391	262	258	259	259	173	257	373	323
35 Investor-Owned Entities	1101	1095	1213	1145	975	1037	1139	869	930	859	878	525	845	1084	977
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2211	2205	2326	2264	2101	2172	2276	1878	1924	1572	1591	1419	1369	2194	1976

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2006 - 2007 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	233	233	236	180	180	180	180	180	180	180	180	165	180	180	188
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	373	373	376	321	322	323	323	197	195	195	195	173	195	320	276
-Investor-Owned Entities-															
13 Basin Creek Project	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 Beaver	453	475	471	435	478	488	362	423	423	472	466	459	459	453	449
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	153	153	168	157	131	109	82	92	65	62	62	49	46	139	104
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	8	88	97	42	0	0	0	0	0	20
22 Fredonia 3&4	95	95	109	78	18	13	17	0	0	0	0	0	0	39	31
23 Fredrickson 1&2	105	105	163	65	0	0	0	0	0	0	0	0	0	0	28
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	20	20	52	0	0	0	0	0	0	0	0	0	0	0	6
27 Total Investor-Owned Entities	1283	1305	1420	1192	1084	1075	1006	944	862	866	860	519	837	1088	1015
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	373	373	376	321	322	323	323	197	195	195	195	173	195	320	276
35 Investor-Owned Entities	1283	1305	1420	1192	1084	1075	1006	944	862	866	860	519	837	1088	1015
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2393	2415	2533	2250	2147	2144	2076	1887	1793	1516	1510	1413	1299	2145	1967

Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	180	180	180	180	180	180	180	180	180	180	180	78	180	180	172
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	320	320	320	321	322	323	323	197	195	195	195	86	195	320	260
-Investor-Owned Entities-															
13 Basin Creek Project	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 Beaver	475	471	435	478	488	362	423	423	472	466	459	459	453	475	450
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	158	158	168	155	137	133	75	72	69	61	61	50	57	133	106
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	8	54	54	77	0	0	0	0	0	16
22 Fredonia 3&4	102	102	109	93	17	15	11	0	0	0	0	0	0	38	32
23 Fredrickson 1&2	59	59	100	0	0	0	0	0	0	0	0	0	0	0	13
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	20	20	56	0	0	0	0	0	0	0	0	0	0	0	6.3
27 Total Investor-Owned Entities	1271	1267	1325	1183	1099	975	1020	881	950	859	852	520	842	1103	1002
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	320	320	320	321	322	323	323	197	195	195	195	86	195	320	260
35 Investor-Owned Entities	1271	1267	1325	1183	1099	975	1020	881	950	859	852	520	842	1103	1002
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2328	2324	2382	2241	2162	2044	2090	1824	1881	1509	1502	1328	1304	2160	1937

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2008 - 2009 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	180	180	180	180	180	180	180	180	180	180	180	165	180	180	179
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	320	320	320	321	322	323	323	197	195	195	195	173	195	320	267
-Investor-Owned Entities-															
13 Basin Creek Project	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 Beaver	471	435	478	488	362	423	423	472	466	459	459	453	475	471	452
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	155	155	168	159	133	139	76	74	69	49	49	59	47	129	105
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	6	54	54	77	0	0	0	0	0	16
22 Fredonia 3&4	97	97	109	75	29	11	11	0	0	0	0	0	0	33	30
23 Fredrickson 1&2	44	44	106	15	0	0	0	0	0	0	0	0	0	0	14
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	28	68	0	0	0	0	0	0	0	0	0	0	0	0	4
27 Total Investor-Owned Entities	1252	1256	1318	1194	981	1036	1021	932	944	840	840	523	854	1090	999
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	320	320	320	321	322	323	323	197	195	195	195	173	195	320	267
35 Investor-Owned Entities	1252	1256	1318	1194	981	1036	1021	932	944	840	840	523	854	1090	999
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2309	2313	2375	2252	2044	2105	2091	1875	1875	1490	1490	1417	1316	2147	1941

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2009 - 2010 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	180	180	180	180	180	180	180	180	180	180	180	165	180	180	179
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	320	320	320	321	322	323	323	197	195	195	195	173	195	320	267
-Investor-Owned Entities-															
13 Basin Creek Project	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 Beaver	435	478	488	362	423	423	472	466	459	459	453	475	471	435	449
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	156	156	166	153	134	138	73	75	63	49	49	49	55	127	103
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Fredonia 3&4	94	94	109	77	28	6	11	6	0	0	0	0	0	42	31
23 Fredrickson 1&2	65	65	115	18	0	0	0	0	0	0	0	0	0	8	17
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Total Investor-Owned Entities	1207	1250	1335	1067	1042	1024	1013	879	854	840	834	535	858	1069	978
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	320	320	320	321	322	323	323	197	195	195	195	173	195	320	267
35 Investor-Owned Entities	1207	1250	1335	1067	1042	1024	1013	879	854	840	834	535	858	1069	978
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2264	2307	2392	2125	2105	2093	2083	1822	1785	1490	1484	1429	1320	2126	1921

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	188	188	188	188	188	188	188	188	188	188	188	0	188	188	172
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	328	328	328	329	329	330	331	204	202	202	202	8	202	328	260
-Investor-Owned Entities-															
13 Basin Creek Project	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 Beaver	478	488	362	423	423	472	466	459	459	453	475	471	435	478	450
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	155	155	168	156	113	117	53	75	58	51	51	49	53	116	97
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	6	54	54	77	0	0	0	0	0	16
22 Fredonia 3&4	94	94	109	70	18	19	6	0	0	0	0	0	0	0	26
23 Fredrickson 1&2	54	54	63	18	0	0	0	0	0	0	0	0	0	0	11
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Total Investor-Owned Entities	1238	1248	1159	1124	1011	1071	1036	920	926	836	858	531	820	1051	978
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	328	328	328	329	329	330	331	204	202	202	202	8	202	328	260
35 Investor-Owned Entities	1238	1248	1159	1124	1011	1071	1036	920	926	836	858	531	820	1051	978
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2302	2312	2223	2189	2082	2148	2113	1871	1865	1493	1515	1261	1289	2115	1914

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2011 - 2012 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	196	196	196	196	196	196	196	196	196	196	196	0	196	196	180
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	336	336	336	337	338	339	339	213	211	211	211	8	211	336	268
-Investor-Owned Entities-															
13 Basin Creek Project	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 Beaver	488	362	423	423	472	466	459	459	453	475	471	435	478	488	454
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	152	152	164	141	103	121	65	65	54	47	47	43	51	116	94
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	6	54	54	77	0	0	0	0	0	16
22 Fredonia 3&4	40	90	90	100	53	11	0	6	0	0	0	0	0	27	29
23 Fredrickson 1&2	50	50	47	4	0	0	0	0	0	0	0	0	0	0	8.4
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Total Investor-Owned Entities	1187	1111	1181	1125	1085	1061	1035	916	916	854	850	489	861	1088	980
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	336	336	336	337	338	339	339	213	211	211	211	8	211	336	268
35 Investor-Owned Entities	1187	1111	1181	1125	1085	1061	1035	916	916	854	850	489	861	1088	980
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2260	2184	2254	2199	2164	2146	2121	1875	1863	1520	1516	1219	1339	2161	1923

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	201	201	201	201	201	201	201	201	201	201	201	78	201	201	191
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	341	341	341	342	343	344	344	218	216	216	216	86	216	341	279
-Investor-Owned Entities-															
13 Basin Creek Project	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 Beaver	362	423	423	472	466	459	459	453	475	471	435	478	488	362	448
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	151	151	159	130	101	105	64	64	57	48	48	41	41	105	89
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	6	54	54	77	0	0	0	0	0	16
22 Fredonia 3&4	81	81	109	53	0	6	0	0	0	0	0	0	0	25	23
23 Fredrickson 1&2	46	46	55	4	0	0	0	0	0	0	0	0	0	6	9.3
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Total Investor-Owned Entities	1097	1158	1203	1116	1024	1033	1034	903	941	851	815	530	861	955	963
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	341	341	341	342	343	344	344	218	216	216	216	86	216	341	279
35 Investor-Owned Entities	1097	1158	1203	1116	1024	1033	1034	903	941	851	815	530	861	955	963
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2175	2236	2281	2195	2108	2123	2125	1867	1893	1522	1486	1338	1344	2033	1918

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2013 - 2014 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
4 Hoquiam Diesels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Pasco Harbor Generating Station	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4
7 Randolph Road Diesel Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 River Road	212	212	212	212	212	212	212	212	212	212	212	78	212	212	201
9 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10 Springfield Gen Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
12 Total Public Entities	352	352	352	353	353	354	355	229	227	227	227	86	227	352	289
-Investor-Owned Entities-															
13 Basin Creek Project	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 Beaver	423	423	472	466	459	459	453	475	471	435	478	488	362	423	451
15 Beaver 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
17 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
18 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 Encogen	151	151	159	130	101	105	64	64	57	48	48	41	41	105	89
20 Frederickson CT	125	125	125	125	125	125	125	0	0	0	0	0	0	125	73
21 Fredonia 1&2	0	0	0	0	0	0	54	54	77	0	0	0	0	0	15
22 Fredonia 3&4	64	64	94	34	6	0	0	0	0	0	0	0	0	18	18
23 Fredrickson 1&2	28	28	47	0	0	0	0	0	0	0	0	0	0	0	6.3
24 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
25 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
26 Whitehorn 2 & 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Total Investor-Owned Entities	1123	1123	1229	1087	1023	1021	1028	925	937	815	858	540	735	1003	957
-Other Enities-															
28 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
29 Frederickson CT	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0.4	0.2
30 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
31 Lancaster Power Project (Rathdrum)	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
32 Total Other Enities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
-Combustion Turbines-															
33 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Public Entities	352	352	352	353	353	354	355	229	227	227	227	86	227	352	289
35 Investor-Owned Entities	1123	1123	1229	1087	1023	1021	1028	925	937	815	858	540	735	1003	957
36 Other Entities	737	737	737	737	742	747	747	746	736	455	455	721	267	737	676
37 Total Combustion Turbines	2211	2211	2317	2176	2118	2122	2129	1900	1900	1496	1539	1348	1228	2091	1922

Table A-8: Regional Renewable Resources PNW Loads and Resources Study 2004 - 2005 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

Table A-8: Regional Renewable Resources PNW Loads and Resources Study 2005 - 2006 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

Table A-8: Regional Renewable Resources PNW Loads and Resources Study 2006 - 2007 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

Table A-8: Regional Renewable Resources PNW Loads and Resources Study 2007 - 2008 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

Table A-8: Regional Renewable Resources PNW Loads and Resources Study 2008 - 2009 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

Table A-8: Regional Renewable Resources PNW Loads and Resources Study 2009 - 2010 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

Table A-8: Regional Renewable Resources PNW Loads and Resources Study 2010 - 2011 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

Table A-8: Regional Renewable Resources PNW Loads and Resources Study 2011 - 2012 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

**Table A-8: Regional Renewable Resources
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

Table A-8: Regional Renewable Resources PNW Loads and Resources Study 2013 - 2014 Operating Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Georgia-Pacific Paper (Wauna)	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Great Falls Wind	1.7	1.7	1.6	2.5	4.3	4.4	4.8	4.0	2.6	2.3	2.3	2.3	2.2	1.6	2.9
7 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
8 Total Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
-Other Entities-															
9 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
10 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
11 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12 Investor-Owned Entities	46	46	46	46	48	48	49	48	47	46	46	24	46	46	45
13 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Renewable Resources	79	79	79	81	84	86	87	85	84	82	82	57	79	79	80

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2004 - 2005 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor_Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2005 - 2006 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor_Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2006 - 2007 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor_Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor_Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2008 - 2009 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor_Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2009 - 2010 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor_Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor_Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2011 - 2012 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor_Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2013 - 2014 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor Owned Entities-															
4 Coyote Springs #1	225	225	229	231	238	242	243	240	236	232	232	230	227	225	233
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Georgia-Pacific Paper (Camas)	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
7 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
8 Thompson River Co-Gen	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
9 Total Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
-Other Entities-															
10 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
11 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
12 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
13 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
14 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
15 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 Investor-Owned Entities	863	863	867	869	876	880	881	878	874	870	870	240	865	863	819
18 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
19 Total Cogeneration	2126	2126	2130	2132	2139	2136	2144	2141	1518	2133	2133	1137	2128	2119	1999

Continued	Table A-10: Regional Large Thermal PNW Loads and Resources Study 2004 - 2005 Operating Year 2003 White Book															3/31/2004
	Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	6268	6268	6268	6268	6268	6268	6268	6268	6137	5055	5124	4615	5174	6268	5930	

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Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2005 - 2006 Operating Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	6267	6267	6267	6267	6267	6267	6267	6267	6134	5753	5538	4866	6267	5627	6034

Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2006 - 2007 Operating Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	5627	6267	6267	6267	6267	6267	6267	6267	6211	5377	5016	3571	4663	5997	5766

**Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book**

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Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	6274	6274	6274	6274	6274	6274	6274	6274	6214	5781	5681	4414	5765	6274	6026

**Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2008 - 2009 Operating Year
2003 White Book**

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Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2008 - 2009 Operating Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	6274	6274	6274	6274	6274	6274	6274	6274	6211	5785	5392	3458	5021	6274	5873

**Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2009 - 2010 Operating Year
2003 White Book**

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Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2009 - 2010 Operating Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	6268	6268	6268	6268	6268	6268	6268	6268	6137	4974	5066	4956	5419	6268	5973

**Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book**

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Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	6268	6268	6268	6268	6268	6268	6268	6268	6191	4827	4855	4348	5015	6268	5878

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Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2011 - 2012 Operating Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	6267	6267	6267	6267	6267	6267	6267	6267	6207	5729	5681	4262	5801	6267	6009

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Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Total Large Thermal	6274	6274	6274	6274	6274	6274	6274	6274	6085	5252	5325	4241	5113	6274	5910

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Continued	Table A-10: Regional Large Thermal PNW Loads and Resources Study 2013 - 2014 Operating Year 2003 White Book															3/31/2004
	Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	47 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	48 Total Large Thermal	6274	6274	6274	6274	6274	6274	6274	6274	6211	5733	5681	4600	5854	6274	6047

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**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2004 - 2005 Operating Year
2003 White Book**

3/31/2004

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Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2004 - 2005 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65 DOPD to BPA	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4	7.4	7.4	7.5
66 OKPD to BPA	2	2	2	2	2	2	2	2	2	2.0	2.0	2.0	2.0	2.0	2
67 PGE to BPA	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5	5	5	5	5	5.1
68 PPL to BPA	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
69 PSE to BPA	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.8	7.8	7.8	7.8	7.8	7.8
70 Wells: Regional Totals	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	57	57	57	57	57	57	57	57	57	56	56	56	56	56	56
73 Investor-Owned Entities	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
74 Other Entities	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.8	8.8	8.8	8.8	8.8	8.9
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	143	143	143	143	143	143	143	143	143	141	141	141	141	141	142

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2005 - 2006 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-BPA Canada-															
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-															
2 AVWP to BPA	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	1.1
3 COPD to BPA	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
4 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EWEB to BPA	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
6 FGRV to BPA	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GCPD to BPA	11	11	11	11	21	21	21	21	21	21	21	21	21	21	19
9 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 KITT to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11 KOOT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LVE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 MCMN to BPA	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15 MTFR to BPA	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PGE to BPA	4.2	4.2	4.2	4.2	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.5
18 PPL to BPA	4.2	4.2	4.2	4.2	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.5
19 PSE to BPA	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.5
20 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 SCL to BPA	2.4	2.4	2.4	2.4	1.1	1.1	1.1	1.1	1.1	1	1	1	1	1	1.4
22 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 TPU to BPA	2.4	2.4	2.4	2.4	1.1	1.1	1.1	1.1	1.1	1	1	1	1	1	1.4
24 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Priest Rapids: Regional Totals	31	31	31	31	31	31	31	31	31	29	29	29	29	29	30
-Wanapum CER for Canada-															
26 AVWP to BPA	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.4
27 COPD to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
28 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 EWEB to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7
30 FGRV to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
31 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 GCPD to BPA	11	11	11	11	11	11	11	11	11	10	10	10	10	10	11
33 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 KOOT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 LVE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 MCMN to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
39 MTFR to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
40 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 PGE to BPA	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.2	5.2	5.2	5.2	5.2	5.4
42 PPL to BPA	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.2	5.2	5.2	5.2	5.2	5.4
43 PSE to BPA	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3	3	3	3	3	3.1
44 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 SCL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 TPU to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Wanapum: Regional Totals	29	29	29	29	29	29	29	29	29	28	28	28	28	28	29
-Rock Island P.H. #1 CER for Canada-															
50 CHPD to BPA	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.4	5.4	5.4	5.4	5.4	5.6
51 PSE to BPA	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.4	5.4	5.4	5.4	5.4	5.6
52 Rock Island P.H. #1: Regional Totals	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
-Rock Island P.H. #2 CER for Canada-															
53 CHPD to BPA	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.6
54 PSE to BPA	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.6
55 Rock Island P.H. #2: Regional Totals	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.9	6.9	6.9	6.9	6.9	7.1
-Rocky Reach CER for Canada-															
56 AVWP to BPA	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
57 CHPD to BPA	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.7
58 CLKM to BPA	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.5	8.5	8.5	8.5	8.5	8.7
59 DOPD to BPA	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0	1.0	1
60 PGE to BPA	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.6
61 PPL to BPA	2	2	2	2	2	2	2	2	2	2.0	2.0	2.0	2.0	2.0	2
62 PSE to BPA	15	15	15	15	15	15	15	15	15	14	14	14	14	14	15
63 Rocky Reach: Regional Totals	38	38	38	38	38	38	38	38	38	37	37	37	37	37	38
-Wells CER for Canada-															

<div> <div>Continued</div> <div> <div>Table A-15: Canadian Entitlement Return For Canada</div> <div>PNW Loads and Resources Study</div> <div>2005 - 2006 Operating Year</div> <div>2003 White Book</div> </div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.9
65 DOPD to BPA	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.1	7.1	7.1	7.1	7.1	7.3
66 OKPD to BPA	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0
67 PGE to BPA	5	5	5	5	5	5	5	5	5	4.8	4.8	4.8	4.8	4.8	5.0
68 PPL to BPA	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.7
69 PSE to BPA	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.4	7.4	7.4	7.4	7.4	7.7
70 Wells: Regional Totals	25	25	25	25	25	25	25	25	25	24	24	24	24	24	24
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	56	56	56	56	63	63	63	63	63	60	60	60	60	60	60
73 Investor-Owned Entities	77	77	77	77	70	70	70	70	70	67	67	67	67	67	71
74 Other Entities	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.5	8.5	8.5	8.5	8.5	8.7
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	141	141	141	141	141	141	141	141	141	136	136	136	136	136	139

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2006 - 2007 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-BPA Canada-															
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-															
2 AVWP to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
3 COPD to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
4 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EWEB to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
6 FGRV to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GCPD to BPA	21	21	21	21	21	21	21	21	21	20	20	20	20	20	20
9 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 KITT to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0
11 KOOT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LVE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 MCMN to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15 MTRF to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PGE to BPA	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
18 PPL to BPA	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
19 PSE to BPA	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
20 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 SCL to BPA	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0	1.0	1
22 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 TPU to BPA	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0	1.0	1
24 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Priest Rapids: Regional Totals	29	29	29	29	29	29	29	29	29	28	28	28	28	28	29
-Wanapum CER for Canada-															
26 AVWP to BPA	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3
27 COPD to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
28 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 EWEB to BPA	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
30 FGRV to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
31 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 GCPD to BPA	10	10	10	10	10	10	10	10	10	9.9	9.9	9.9	9.9	9.9	10
33 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 KOOT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 LVE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 MCMN to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
39 MTRF to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
40 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 PGE to BPA	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.2
42 PPL to BPA	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.2
43 PSE to BPA	3	3	3	3	3	3	3	3	3	2.9	2.9	2.9	2.9	2.9	3.0
44 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 SCL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 TPU to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Wanapum: Regional Totals	28	28	28	28	28	28	28	28	28	27	27	27	27	27	28
-Rock Island P.H. #1 CER for Canada-															
50 CHPD to BPA	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.4
51 PSE to BPA	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.4
52 Rock Island P.H. #1: Regional Totals	11	11	11	11	11	11	11	11	11	10	10	10	10	10	11
-Rock Island P.H. #2 CER for Canada-															
53 CHPD to BPA	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4
54 PSE to BPA	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4
55 Rock Island P.H. #2: Regional Totals	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.7	6.7	6.7	6.7	6.7	6.8
-Rocky Reach CER for Canada-															
56 AVWP to BPA	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1	1	1	1	1	1.1
57 CHPD to BPA	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.4	5.4	5.4	5.4	5.4	5.5
58 CLKM to BPA	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.2	8.2	8.2	8.2	8.2	8.4
59 DOPD to BPA	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60 PGE to BPA	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.3	4.3	4.3	4.3	4.3	4.4
61 PPL to BPA	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9
62 PSE to BPA	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
63 Rocky Reach: Regional Totals	37	37	37	37	37	37	37	37	37	36	36	36	36	36	36
-Wells CER for Canada-															

<div> <div>Continued</div> <div> <div>Table A-15: Canadian Entitlement Return For Canada</div> <div>PNW Loads and Resources Study</div> <div>2006 - 2007 Operating Year</div> <div>2003 White Book</div> </div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65 DOPD to BPA	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.9	6.9	6.9	6.9	6.9	7.1
66 OKPD to BPA	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9
67 PGE to BPA	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.8
68 PPL to BPA	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
69 PSE to BPA	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.2	7.2	7.2	7.2	7.2	7.4
70 Wells: Regional Totals	24	24	24	24	24	24	24	24	24	23	23	23	23	23	24
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	60	60	60	60	60	60	60	60	60	58	58	58	58	58	60
73 Investor-Owned Entities	67	67	67	67	67	67	67	67	67	65	65	65	65	65	66
74 Other Entities	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.2	8.2	8.2	8.2	8.2	8.4
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	136	136	136	136	136	136	136	136	136	132	132	132	132	132	134

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65 DOPD to BPA	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.8	6.9
66 OKPD to BPA	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67 PGE to BPA	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.6	4.7
68 PPL to BPA	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
69 PSE to BPA	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.2
70 Wells: Regional Totals	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
73 Investor-Owned Entities	65	65	65	65	65	65	65	65	65	64	64	64	64	64	65
74 Other Entities	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.2
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	132	132	132	132	132	132	132	132	132	130	130	130	130	130	131

<div> <div>Continued</div> <div> <div>Table A-15: Canadian Entitlement Return For Canada</div> <div>PNW Loads and Resources Study</div> <div>2008 - 2009 Operating Year</div> <div>2003 White Book</div> </div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65 DOPD to BPA	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
66 OKPD to BPA	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67 PGE to BPA	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
68 PPL to BPA	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
69 PSE to BPA	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
70 Wells: Regional Totals	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	58	58	58	58	58	58	58	58	58	57	57	57	57	57	58
73 Investor-Owned Entities	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
74 Other Entities	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	130	130	130	130	130	130	130	130	130	129	129	129	129	129	130

<div> <div>Continued</div> <div> <div>Table A-15: Canadian Entitlement Return For Canada</div> <div>PNW Loads and Resources Study</div> <div>2009 - 2010 Operating Year</div> <div>2003 White Book</div> </div> <div>3/31/2004</div> </div>															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.8
65 DOPD to BPA	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.3	7.3	7.3	7.3	7.3	7.0
66 OKPD to BPA	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0	2.0	2.0	2.0	1.9
67 PGE to BPA	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.0	5.0	5.0	5.0	5.0	4.7
68 PPL to BPA	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.6
69 PSE to BPA	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.6	7.6	7.6	7.6	7.6	7.3
70 Wells: Regional Totals	23	23	23	23	23	23	23	23	23	24	24	24	24	24	23
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	57	57	57	57	61	61	61	61	61	66	66	66	66	66	62
73 Investor-Owned Entities	64	64	64	64	60	60	60	60	60	64	64	64	64	64	62
74 Other Entities	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.7	8.7	8.7	8.7	8.7	8.3
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	129	129	129	129	129	129	129	129	129	139	139	139	139	139	133

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.9
65 DOPD to BPA	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.2	7.2	7.2	7.3
66 OKPD to BPA	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9
67 PGE to BPA	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.9	4.9	4.9
68 PPL to BPA	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
69 PSE to BPA	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.5	7.5	7.5	7.6
70 Wells: Regional Totals	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	66	66	66	66	66	66	66	66	66	65	65	65	65	65	66
73 Investor-Owned Entities	64	64	64	64	64	64	64	64	64	63	63	63	63	63	64
74 Other Entities	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.6	8.6	8.7
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	139	139	139	139	139	139	139	139	139	138	138	138	138	138	139

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2011 - 2012 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-BPA Canada-															
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-															
2 AVWP to BPA	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
3 COPD to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
4 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EWEB to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
6 FGRV to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GCPD to BPA	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
9 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 KOOT to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LVE to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14 MCMN to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15 MTFR to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PGE to BPA	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
18 PPL to BPA	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
19 PSE to BPA	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
20 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 SCL to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 TPU to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
24 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Priest Rapids: Regional Totals	30	30	30	30	30	30	30	30	30	29	29	29	29	29	30
-Wanapum CER for Canada-															
26 AVWP to BPA	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
27 COPD to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
28 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 EWEB to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
30 FGRV to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
31 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 GCPD to BPA	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
33 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 KOOT to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
36 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 LVE to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
38 MCMN to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
39 MTFR to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 PGE to BPA	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.8
42 PPL to BPA	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.8
43 PSE to BPA	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
44 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 SCL to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
46 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 TPU to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
48 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Wanapum: Regional Totals	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
-Rock Island P.H. #1 CER for Canada-															
50 CHPD to BPA	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.4	5.4	5.4	5.5
51 PSE to BPA	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.4	5.4	5.4	5.5
52 Rock Island P.H. #1: Regional Totals	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
-Rock Island P.H. #2 CER for Canada-															
53 CHPD to BPA	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
54 PSE to BPA	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
55 Rock Island P.H. #2: Regional Totals	7	7	7	7	7	7	7	7	7	6.9	6.9	6.9	6.9	6.9	7.0
-Rocky Reach CER for Canada-															
56 AVWP to BPA	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
57 CHPD to BPA	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
58 CLKM to BPA	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5	8.5	8.5
59 DOPD to BPA	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0	1.0	1
60 PGE to BPA	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
61 PPL to BPA	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
62 PSE to BPA	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14
63 Rocky Reach: Regional Totals	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
-Wells CER for Canada-															

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2011 - 2012 Operating Year
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Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65 DOPD to BPA	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.2
66 OKPD to BPA	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67 PGE to BPA	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.8	4.8	4.8	4.8	4.9
68 PPL to BPA	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.7
69 PSE to BPA	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4	7.4	7.4	7.5
70 Wells: Regional Totals	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	65	65	65	65	66	66	66	66	66	65	65	65	65	65	65
73 Investor-Owned Entities	63	63	63	63	63	63	63	63	63	62	62	62	62	62	63
74 Other Entities	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5	8.5	8.5
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	138	138	138	138	138	138	138	138	138	135	135	135	135	135	137

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-BPA Canada-															
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-															
2 AVWP to BPA	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
3 COPD to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
4 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EWEB to BPA	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
6 FGRV to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GCPD to BPA	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
9 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 KOOT to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LVE to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14 MCMN to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15 MTFR to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PGE to BPA	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
18 PPL to BPA	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
19 PSE to BPA	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
20 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 SCL to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 TPU to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
24 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Priest Rapids: Regional Totals	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
-Wanapum CER for Canada-															
26 AVWP to BPA	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
27 COPD to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
28 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 EWEB to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
30 FGRV to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
31 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 GCPD to BPA	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
33 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 KOOT to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0.1
36 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 LVE to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
38 MCMN to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
39 MTFR to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 PGE to BPA	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
42 PPL to BPA	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
43 PSE to BPA	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.6
44 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 SCL to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
46 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 TPU to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
48 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Wanapum: Regional Totals	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
-Rock Island P.H. #1 CER for Canada-															
50 CHPD to BPA	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
51 PSE to BPA	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
52 Rock Island P.H. #1: Regional Totals	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
-Rock Island P.H. #2 CER for Canada-															
53 CHPD to BPA	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4
54 PSE to BPA	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4
55 Rock Island P.H. #2: Regional Totals	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.8	6.9
-Rocky Reach CER for Canada-															
56 AVWP to BPA	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
57 CHPD to BPA	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.5	5.5	5.5	5.5
58 CLKM to BPA	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.3	8.3	8.3	8.3	8.3	8.4
59 DOPD to BPA	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60 PGE to BPA	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.4
61 PPL to BPA	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9
62 PSE to BPA	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
63 Rocky Reach: Regional Totals	37	37	37	37	37	37	37	37	37	36	36	36	36	36	37
-Wells CER for Canada-															

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
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Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65 DOPD to BPA	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7	7	7	7	7	7.1
66 OKPD to BPA	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67 PGE to BPA	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
68 PPL to BPA	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
69 PSE to BPA	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.3	7.3	7.3	7.3	7.3	7.4
70 Wells: Regional Totals	24	24	24	24	24	24	24	24	24	23	23	23	23	23	24
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	65	65	65	65	65	65	65	65	65	64	64	64	64	64	65
73 Investor-Owned Entities	62	62	62	62	62	62	62	62	62	61	61	61	61	61	62
74 Other Entities	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.3	8.3	8.3	8.3	8.3	8.4
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	135	135	135	135	135	135	135	135	135	134	134	134	134	134	135

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2013 - 2014 Operating Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-BPA Canada-															
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-															
2 AVWP to BPA	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
3 COPD to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
4 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EWEB to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
6 FGRV to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GCPD to BPA	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
9 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 KOOT to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LVE to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14 MCMN to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15 MTFR to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PGE to BPA	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
18 PPL to BPA	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
19 PSE to BPA	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
20 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 SCL to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 TPU to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
24 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Priest Rapids: Regional Totals	29	29	29	29	29	29	29	29	29	28	28	28	28	28	29
-Wanapum CER for Canada-															
26 AVWP to BPA	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
27 COPD to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
28 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 EWEB to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
30 FGRV to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
31 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 GCPD to BPA	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
33 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 KOOT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 LVE to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
38 MCMN to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
39 MTFR to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 PGE to BPA	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
42 PPL to BPA	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
43 PSE to BPA	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 SCL to BPA	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
46 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 TPU to BPA	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
48 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Wanapum: Regional Totals	28	28	28	28	27	27	27	27	27	27	27	27	27	27	27
-Rock Island P.H. #1 CER for Canada-															
50 CHPD to BPA	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.3
51 PSE to BPA	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.3
52 Rock Island P.H. #1: Regional Totals	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
-Rock Island P.H. #2 CER for Canada-															
53 CHPD to BPA	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
54 PSE to BPA	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
55 Rock Island P.H. #2: Regional Totals	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.7	6.8
-Rocky Reach CER for Canada-															
56 AVWP to BPA	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1	1	1	1	1	1
57 CHPD to BPA	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.4	5.4	5.4	5.5
58 CLKM to BPA	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
59 DOPD to BPA	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60 PGE to BPA	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.4
61 PPL to BPA	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
62 PSE to BPA	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
63 Rocky Reach: Regional Totals	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
-Wells CER for Canada-															

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resources Study
2013 - 2014 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
64 AVWP to BPA	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65 DOPD to BPA	7	7	7	7	7	7	7	7	7	7.0	7.0	7.0	7.0	7.0	7
66 OKPD to BPA	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67 PGE to BPA	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.7
68 PPL to BPA	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
69 PSE to BPA	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
70 Wells: Regional Totals	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
-Total CER For Canada-															
71 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Public Entities	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
73 Investor-Owned Entities	61	61	61	61	61	61	61	61	61	60	60	60	60	60	61
74 Other Entities	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Total CER For Canada	134	134	134	134	134	134	134	134	134	132	132	132	132	132	133

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2004 - 2005 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Intra-Regional Transfers-															
1 AVWP To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
4 BPA To EWEB PwrS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 BPA To Other Entities	1050	1077	223	54	54	54	54	54	54	3.5	3.5	3.5	3.5	54	139
6 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34	5.7
7 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PPL CapS	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
9 BPA To PPL PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
10 BPA To PSE WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
11 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 CHPD To PGE C/N/X	24	24	24	24	0	0	0	0	0	0	0	0	24	24	10
13 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4.3
14 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
15 GCPD To PPL PwrS	13	13	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	14	14	10.0
16 NWCP To PSE PwrS	4.8	4.8	4.9	5	4.8	2.8	3.7	3.7	4.5	4.6	4.6	4.6	4.7	4.8	4.4
17 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11	9.6
18 NWE To PSE PwrS	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
19 Other Entities To AVWP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20 Other Entities To BPA	1230	1232	1259	1203	1203	1203	1203	1203	1204	953	553	552	554	1202	1064
21 Other Entities To GHPD	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
22 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
23 PGE To CHPD PkRepl	18	18	18	18	0	0	0	0	0	0	0	0	18	17	7.4
24 PGE To CHPD XchgNrg	0	0	0	0	25	25	25	25	0	0	0	0	25	25	12
25 PGE To PPL Cove Repl	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26 PKE To SCL PwrS	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
27 POPD To SCL PwrS	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
28 PPL To AVWP S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 PPL To BPA PkRepl	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
31 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0	5.8
32 PPL To FLHD PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
33 PPL To SUB PwrS	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
34 PSE To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
35 SCL To POPD PwrS	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
36 SHPD To PSE PwrS	7.4	7.4	8.3	9.2	12	16	15	14	12	10	10	8.7	7.9	7.3	11
37 TAUC To AVWP PwrS	188	188	188	188	188	188	188	188	188	179	94	94	161	188	174
38 TPU To BPA PwrX	35	35	35	0	0	0	35	35	35	35	35	35	35	35	26
39 WSPE To PGE PwrS	42	41	41	35	36	40	44	40	40	38	64	42	46	41	41
40 Total Contracts	3508	3538	2873	2650	2981	2938	2996	2917	2719	2374	1916	1577	1915	2506	2645
-Total Contracts Out-															
41 Federal System	1248	1277	461	346	647	660	658	602	450	367	368	172	232	282	512
42 Public Entities	140	140	123	88	64	68	104	101	101	102	102	102	144	145	107
43 Investor-Owned Entities	837	839	965	953	1006	942	963	947	900	890	805	684	913	812	898
44 Other Entities	1283	1283	1324	1263	1263	1267	1271	1267	1269	1015	641	618	625	1268	1129
45 Total Contracts Out	3508	3538	2873	2650	2981	2938	2996	2917	2719	2374	1916	1577	1915	2506	2645
-Total Contracts In-															
46 Federal System	1460	1463	1634	1532	1575	1510	1569	1557	1536	1284	884	765	887	1407	1376
47 Public Entities	256	253	217	217	228	228	225	221	196	196	196	193	236	235	221
48 Investor-Owned Entities	895	895	841	851	1129	1150	1152	1089	937	893	836	619	792	815	928
49 Other Entities	898	928	181	50	50	50	50	50	50	0	0	0	0	50	120
50 Total Contracts In	3508	3538	2873	2650	2981	2938	2996	2917	2719	2374	1916	1577	1915	2506	2645

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2005 - 2006 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Intra-Regional Transfers-															
1 AVWP To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
4 BPA To EWEB PwrS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 BPA To Other Entities	54	54	54	54	54	54	54	54	54	3.5	3.5	3.5	3.5	54	41
6 BPA To PPL PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
7 BPA To PPL CapS	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
8 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34	5.7
9 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 BPA To PSE WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
11 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 CHPD To PGE C/N/X	24	24	24	24	0	0	0	0	0	0	0	0	24	24	10
13 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4.3
14 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
15 GCPD To AVWP PwrS	0	0	0	0	15	15	15	15	14	23	23	29	30	26	15
16 GCPD To COPD PwrS	0	0	0	0	5	5	5	5	5	8	8	10	10	9	5.2
17 GCPD To EWEB PwrS	0	0	0	0	4	4	4	4	4	7	7	8	8	7	4.2
18 GCPD To FGRV PwrS	0	0	0	0	1	1	1	1	1	2	2	2	3	2	1.2
19 GCPD To FREC PwrS	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.3
20 GCPD To KITT PwrS	0	0	0	0	1	1	1	1	1	1	1	2	2	1	0.9
21 GCPD To KOOT PwrS	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0.8
22 GCPD To LVE PwrS	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0.8
23 GCPD To LVE PwrS	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0.8
24 GCPD To MCMN PwrS	0	0	0	0	1	1	1	1	1	2	2	2	3	2	1.2
25 GCPD To MTRF PwrS	0	0	0	0	1	1	1	1	1	2	2	2	3	2	1.2
26 GCPD To PGE PwrS	0	0	0	0	33	33	33	33	33	53	53	67	68	59	34
27 GCPD To PPL PwrS	13	13	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	14	14	10.0
28 GCPD To PPL PwrS	0	0	0	0	33	33	33	33	33	53	53	67	68	59	34
29 GCPD To PSE PwrS	0	0	0	0	19	19	19	19	19	31	31	39	39	34	20
30 GCPD To TPU PwrS	0	0	0	0	15	15	15	15	15	24	24	31	31	27	16
31 NWCP To PSE PwrS	4.8	4.8	4.9	5	4.8	2.8	3.7	3.7	4.5	4.6	4.6	4.6	4.7	4.8	4.4
32 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11	9.6
33 NWE To PSE PwrS	89	89	89	89	89	89	89	89	89	89	89	89	0	89	82
34 Other Entities To AVWP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
35 Other Entities To BPA	1203	1205	1203	1202	1204	1203	802	805	803	553	551	554	553	802	907
36 Other Entities To GHPD	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
37 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
38 PGE To CHPD PkRepl	18	18	18	18	0	0	0	0	0	0	0	0	18	17	7.4
39 PGE To CHPD XchgNrg	0	0	0	0	25	25	25	25	0	0	0	0	25	25	12
40 PGE To PPL Cove Repl	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41 PKE To SCL PwrS	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
42 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0	5.8
43 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 PPL To BPA PkRepl	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
45 PPL To FLHD PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
46 PPL To SUB PwrS	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
47 PSE To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
48 SCL To POPD PwrS	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
49 SHPD To PSE PwrS	7.4	7.4	8.3	9.2	12	16	15	14	12	10	10	8.7	7.9	7.3	11
50 TAUC To AVWP PwrS	188	188	188	188	188	188	188	188	188	188	188	100	188	188	181
51 TPU To BPA PwrX	35	35	35	0	0	0	35	35	35	35	35	35	35	35	26
52 WSPE To PGE PwrS	42	41	41	35	36	40	44	40	40	38	64	42	46	41	41
53 Total Contracts	2488	2489	2650	2650	3115	3071	2728	2652	2450	2194	2220	1850	2122	2340	2527
-Total Contracts Out-															
54 Federal System	252	253	292	346	647	660	658	602	450	367	368	172	232	282	413
55 Public Entities	142	142	125	89	197	201	237	234	233	313	313	367	415	379	244
56 Investor-Owned Entities	823	824	965	953	1006	942	963	947	900	899	899	690	851	812	896
57 Other Entities	1270	1270	1268	1262	1264	1267	870	869	868	615	639	620	624	868	973
58 Total Contracts Out	2488	2489	2650	2650	3115	3071	2728	2652	2450	2194	2220	1850	2122	2340	2527
-Total Contracts In-															
59 Federal System	1433	1436	1579	1531	1576	1510	1168	1159	1135	884	882	767	885	1007	1220
60 Public Entities	223	223	219	219	261	261	257	254	229	248	248	256	302	291	252
61 Investor-Owned Entities	781	780	802	851	1229	1250	1252	1189	1036	1062	1090	827	935	993	1018
62 Other Entities	50	50	50	50	50	50	50	50	50	0	0	0	0	50	38
63 Total Contracts In	2488	2489	2650	2650	3115	3071	2728	2652	2450	2194	2220	1850	2122	2340	2527

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Intra-Regional Transfers-															
1 AVWP To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
4 BPA To PPL PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
5 BPA To PPL CapS	184	184	194	183	229	187	211	192	177	173	173	167	174	159	186
6 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34	5.7
7 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
9 CHPD To PGE C/N/X	24	24	24	24	0	0	0	0	0	0	0	0	24	24	10
10 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4.3
11 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
12 GCPD To AVWP PwrS	20	20	19	19	19	19	17	18	18	26	26	32	32	28	22
13 GCPD To COPD PwrS	6	6	6	6	6	6	6	6	6	9	9	11	10	9	7.3
14 GCPD To EWEB PwrS	6	6	5	5	5	5	5	5	5	7	7	9	9	8	6.2
15 GCPD To FGRV PwrS	2	2	2	2	2	1	1	1	2	2	2	3	3	2	1.9
16 GCPD To FREC PwrS	1	1	1	0	1	1	0	0	0	1	1	1	1	1	0.7
17 GCPD To KITT PwrS	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1.2
18 GCPD To KOOT PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19 GCPD To LVE PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 GCPD To LVE PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21 GCPD To MCMN PwrS	2	2	2	2	2	1	1	1	2	2	2	3	3	2	1.9
22 GCPD To MTFR PwrS	2	2	2	2	2	1	1	1	2	2	2	3	3	2	1.9
23 GCPD To PGE PwrS	45	45	43	43	44	44	40	40	40	60	60	73	72	63	51
24 GCPD To PPL PwrS	13	13	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	14	14	10.0
25 GCPD To PPL PwrS	45	45	43	43	44	44	40	40	40	60	60	73	72	63	51
26 GCPD To PSE PwrS	26	26	25	25	25	25	23	23	23	34	34	42	42	36	29
27 GCPD To TPU PwrS	21	21	20	20	20	20	18	18	18	27	27	33	33	29	23
28 NWCP To PSE PwrS	4.8	4.8	4.9	5	4.8	2.8	3.7	3.7	4.5	4.6	4.6	4.6	4.7	4.8	4.4
29 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11	9.6
30 NWE To PSE PwrS	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
31 Other Entities To AVWP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
32 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
33 PGE To CHPD XchgNrg	0	0	0	0	25	25	25	25	0	0	0	0	25	25	12
34 PGE To CHPD PkRepl	18	18	18	18	0	0	0	0	0	0	0	0	18	17	7.4
35 PGE To PPL Cove Repl	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 PPL To BPA PkRepl	184	184	194	183	229	187	211	192	177	173	173	167	174	159	186
38 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0	5.8
39 PPL To SUB PwrS	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
40 PSE To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
41 SCL To POPD PwrS	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
42 SHPD To PSE PwrS	7.4	7.4	8.3	9.2	12	16	15	14	12	10	10	8.7	7.9	7.3	11
43 TAUC To AVWP PwrS	188	188	188	188	188	188	188	188	188	188	188	100	188	188	181
44 WSPE To PGE PwrS	42	41	41	35	36	40	44	40	40	38	64	42	46	41	41
45 Total Contracts	1248	1248	1402	1438	1772	1726	1734	1643	1461	1499	1526	1154	1508	1337	1495
-Total Contracts Out-															
46 Federal System	197	197	236	291	592	605	602	540	394	361	362	167	227	226	370
47 Public Entities	287	287	262	260	240	241	227	225	228	302	302	357	396	359	282
48 Investor-Owned Entities	614	615	756	744	797	733	754	731	691	690	690	481	732	603	694
49 Other Entities	150	148	148	143	143	147	151	147	148	145	171	149	154	149	149
50 Total Contracts Out	1248	1248	1402	1438	1772	1726	1734	1643	1461	1499	1526	1154	1508	1337	1495
-Total Contracts In-															
51 Federal System	195	196	341	329	372	307	331	312	297	296	296	178	297	170	285
52 Public Entities	139	139	133	132	144	141	134	131	109	124	124	135	177	166	139
53 Investor-Owned Entities	914	913	929	977	1257	1278	1269	1200	1055	1079	1106	841	1033	1001	1071
54 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Total Contracts In	1248	1248	1402	1438	1772	1726	1734	1643	1461	1499	1526	1154	1508	1337	1495

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2008 - 2009 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Intra-Regional Transfers-															
1 AVWP To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
4 BPA To PPL PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
5 BPA To PPL CapS	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
6 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34	5.7
7 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
9 CHPD To PGE C/N/X	24	24	24	24	0	0	0	0	0	0	0	0	24	24	10
10 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4.3
11 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
12 GCPD To AVWP PwrS	20	20	19	19	19	19	17	18	18	26	26	32	32	28	22
13 GCPD To COPD PwrS	6	6	6	6	6	6	6	6	6	9	9	11	10	9	7.3
14 GCPD To EWEB PwrS	6	6	5	5	5	5	5	5	5	7	7	9	9	8	6.2
15 GCPD To FGRV PwrS	2	2	2	2	2	2	1	1	2	2	2	3	3	2	2
16 GCPD To FREC PwrS	1	1	1	0	1	1	0	0	0	1	1	1	1	1	0.7
17 GCPD To KITT PwrS	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1.2
18 GCPD To KOOT PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19 GCPD To LVE PwrS	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2
20 GCPD To LVE PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21 GCPD To MCMN PwrS	2	2	2	2	2	2	1	1	2	2	2	3	3	2	2
22 GCPD To MTFR PwrS	2	2	2	2	2	2	1	1	2	2	2	3	3	2	2
23 GCPD To PGE PwrS	45	45	43	43	44	44	40	40	40	60	60	73	72	63	51
24 GCPD To PPL PwrS	45	45	43	43	44	44	40	40	40	60	60	73	72	63	51
25 GCPD To PPL PwrS	13	13	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	14	14	10.0
26 GCPD To PSE PwrS	26	26	25	25	25	25	23	23	23	34	34	42	42	36	29
27 GCPD To TPU PwrS	21	21	20	20	20	20	18	18	18	27	27	33	33	29	23
28 NWCP To PSE PwrS	4.8	4.8	4.9	5	4.8	2.8	3.7	3.7	4.5	4.6	4.6	4.6	4.7	4.8	4.4
29 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11	9.6
30 NWE To PSE PwrS	89	89	89	89	89	89	89	89	89	89	89	89	0	89	82
31 Other Entities To AVWP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
32 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
33 PGE To CHPD PkRepl	18	18	18	18	0	0	0	0	0	0	0	0	18	17	7.4
34 PGE To CHPD XchgNrg	0	0	0	0	25	25	25	25	0	0	0	0	25	25	12
35 PGE To PPL Cove Repl	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 PPL To BPA PkRepl	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
38 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0	5.8
39 PPL To SUB PwrS	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
40 PSE To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
41 SCL To POPD PwrS	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
42 SHPD To PSE PwrS	7.4	7.4	8.3	9.2	12	16	15	14	12	10	10	8.7	7.9	7.3	11
43 TAUC To AVWP PwrS	188	188	188	188	188	188	188	188	188	188	188	188	100	188	181
44 WSPE To PGE PwrS	42	41	41	35	36	40	44	40	40	38	64	42	46	41	41
45 Total Contracts	1248	1248	1402	1437	1771	1728	1733	1656	1460	1498	1525	1241	1330	1336	1488
-Total Contracts Out-															
46 Federal System	197	197	236	291	592	605	602	547	394	361	362	167	227	226	370
47 Public Entities	287	287	262	259	239	243	226	224	227	301	301	356	395	358	281
48 Investor-Owned Entities	614	615	756	744	797	733	754	738	691	690	690	569	554	603	687
49 Other Entities	150	148	148	143	143	147	151	147	148	145	171	149	154	149	149
50 Total Contracts Out	1248	1248	1402	1437	1771	1728	1733	1656	1460	1498	1525	1241	1330	1336	1488
-Total Contracts In-															
51 Federal System	195	196	341	329	372	307	331	319	297	296	296	178	297	170	286
52 Public Entities	139	139	133	131	143	143	133	130	108	123	123	134	176	165	138
53 Investor-Owned Entities	914	913	929	977	1257	1278	1269	1207	1055	1079	1106	929	856	1001	1064
54 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Total Contracts In	1248	1248	1402	1437	1771	1728	1733	1656	1460	1498	1525	1241	1330	1336	1488

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2009 - 2010 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Intra-Regional Transfers-															
1 AVWP To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
4 BPA To PPL PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
5 BPA To PPL CapS	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
6 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34	5.7
7 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
9 CHPD To PGE C/N/X	24	24	24	24	0	0	0	0	0	0	0	0	24	24	10
10 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4.3
11 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
12 GCPD To AVWP PwrS	20	20	19	19	18	18	16	16	16	24	24	30	29	26	21
13 GCPD To COPD PwrS	6	6	6	6	6	6	5	5	5	8	8	10	10	8	6.8
14 GCPD To EWEB PwrS	6	6	5	5	5	5	5	5	5	7	7	8	8	7	5.9
15 GCPD To FGRV PwrS	2	2	2	2	1	1	1	1	1	2	2	2	2	2	1.6
16 GCPD To FREC PwrS	1	1	1	0	1	1	0	0	0	1	1	1	1	1	0.7
17 GCPD To KITT PwrS	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0.8
18 GCPD To KOOT PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19 GCPD To LVE PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 GCPD To LVE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 GCPD To MCMN PwrS	2	2	2	2	1	1	1	1	1	2	2	2	2	2	1.6
22 GCPD To MTFR PwrS	2	2	2	2	1	1	1	1	1	2	2	2	2	2	1.6
23 GCPD To PGE PwrS	45	45	43	43	41	41	37	37	38	56	56	68	67	59	48
24 GCPD To PPL PwrS	13	13	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	14	14	10.0
25 GCPD To PPL PwrS	45	45	43	43	41	41	37	37	38	56	56	68	67	59	48
26 GCPD To PSE PwrS	26	26	25	25	24	24	21	22	22	32	32	39	39	34	28
27 GCPD To TPU PwrS	21	21	20	20	10	10	9	9	9	14	14	17	16	14	14
28 NWCP To PSE PwrS	4.8	4.8	4.9	5	4.8	2.8	3.7	3.7	4.5	4.6	4.6	4.6	4.7	4.8	4.4
29 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11	9.6
30 NWE To PSE PwrS	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
31 Other Entities To AVWP	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
32 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
33 PGE To CHPD PkRepl	18	18	18	18	0	0	0	0	0	0	0	0	18	17	7.4
34 PGE To CHPD XchgNrg	0	0	0	0	25	25	25	25	0	0	0	0	25	25	12
35 PGE To PPL Cove Repl	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.9
36 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 PPL To BPA PkRepl	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
38 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0	5.8
39 PPL To SUB PwrS	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
40 PSE To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
41 SCL To POPD PwrS	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
42 SHPD To PSE PwrS	7.4	7.4	8.3	9.2	12	16	15	14	0	0	0	0	0	0	6.8
43 TAUC To AVWP PwrS	188	188	188	188	188	188	188	188	179	94	94	161	188	188	177
44 WSPE To PGE PwrS	42	41	41	35	36	40	44	40	40	38	64	42	46	41	41
45 Total Contracts	1247	1247	1401	1437	1750	1707	1713	1636	1417	1368	1395	1168	1461	1299	1468
-Total Contracts Out-															
46 Federal System	197	197	236	291	592	605	602	547	394	361	362	167	227	226	370
47 Public Entities	286	286	261	259	218	222	206	204	194	265	265	310	349	322	258
48 Investor-Owned Entities	614	615	756	744	797	733	754	738	682	597	596	542	732	602	691
49 Other Entities	150	148	148	143	143	147	151	147	148	145	171	149	154	149	149
50 Total Contracts Out	1247	1247	1401	1437	1750	1707	1713	1636	1417	1368	1395	1168	1461	1299	1468
-Total Contracts In-															
51 Federal System	195	196	341	329	372	307	331	319	297	296	296	178	297	170	286
52 Public Entities	138	138	132	131	130	130	122	119	94	109	109	112	154	148	127
53 Investor-Owned Entities	914	913	929	977	1249	1270	1260	1198	1026	962	990	878	1010	981	1056
54 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Total Contracts In	1247	1247	1401	1437	1750	1707	1713	1636	1417	1368	1395	1168	1461	1299	1468

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Intra-Regional Transfers-															
1 AVWP To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
4 BPA To PPL PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
5 BPA To PPL CapS	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
6 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34	5.7
7 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
9 CHPD To PGE C/N/X	24	24	24	24	0	0	0	0	0	0	0	0	0	0	6
10 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4.3
11 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
12 GCPD To AVWP PwrS	18	18	18	17	18	18	16	16	16	24	24	30	29	26	20
13 GCPD To COPD PwrS	6	6	6	6	6	6	5	5	5	8	8	10	10	8	6.8
14 GCPD To EWEB PwrS	5	5	5	5	5	5	5	5	5	7	7	8	8	7	5.8
15 GCPD To FGRV PwrS	2	2	1	1	1	1	1	1	1	2	2	2	2	2	1.4
16 GCPD To FREC PwrS	1	1	1	0	1	1	0	0	0	1	1	1	1	1	0.7
17 GCPD To KITT PwrS	1	1	0	0	1	1	0	0	0	1	1	1	1	1	0.6
18 GCPD To KOOT PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19 GCPD To LVE PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 GCPD To LVE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 GCPD To MCMN PwrS	2	2	1	1	1	1	1	1	1	2	2	2	2	2	1.4
22 GCPD To MTFR PwrS	2	2	1	1	1	1	1	1	1	2	2	2	2	2	1.4
23 GCPD To PGE PwrS	42	42	40	40	41	41	37	37	38	56	56	68	67	59	47
24 GCPD To PPL PwrS	13	13	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	14	14	10.0
25 GCPD To PPL PwrS	42	42	40	40	41	41	37	37	38	56	56	68	67	59	47
26 GCPD To PSE PwrS	24	24	23	23	24	24	21	22	22	32	32	39	39	34	27
27 GCPD To TPU PwrS	10	10	10	10	10	10	9	9	9	14	14	17	16	14	12
28 NWCP To PSE PwrS	4.8	4.8	4.9	5	4.8	2.8	3.7	3.7	4.5	4.6	4.6	4.6	4.7	4.8	4.4
29 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11	9.6
30 NWE To PSE PwrS	89	89	89	89	89	89	0	0	0	0	0	0	0	0	37
31 Other Entities To AVWP	100	100	100	100	100	100	0	0	0	0	0	0	0	0	42
32 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
33 PGE To CHPD PkRepl	18	18	18	18	0	0	0	0	0	0	0	0	0	0	4.5
34 PGE To CHPD XchgNrg	0	0	0	0	25	25	25	25	0	0	0	0	0	0	8.3
35 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 PPL To BPA PkRepl	184	184	194	183	229	187	211	199	177	173	173	167	174	159	186
37 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0	5.8
38 PPL To SUB PwrS	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
39 PSE To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
40 SCL To POPD PwrS	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
41 TAUC To AVWP PwrS	188	188	188	188	188	188	188	188	188	179	94	94	161	188	174
42 WSPE To PGE PwrS	42	41	41	35	36	40	44	40	40	38	64	42	46	41	41
43 Total Contracts	1217	1216	1369	1403	1738	1690	1508	1432	1236	1262	1205	911	1176	1043	1330
-Total Contracts Out-															
44 Federal System	197	197	236	291	592	605	602	547	394	361	362	167	227	226	370
45 Public Entities	257	257	230	226	207	206	190	190	194	265	265	310	325	298	242
46 Investor-Owned Entities	613	614	755	743	796	732	663	648	601	591	506	385	571	471	627
47 Other Entities	150	148	148	143	143	147	51	47	48	45	71	49	54	49	91
48 Total Contracts Out	1217	1216	1369	1403	1738	1690	1508	1432	1236	1262	1205	911	1176	1043	1330
-Total Contracts In-															
49 Federal System	195	196	341	329	372	307	331	319	297	296	296	178	297	170	286
50 Public Entities	126	126	118	117	130	130	122	119	94	109	109	112	111	106	116
51 Investor-Owned Entities	895	894	910	957	1237	1253	1054	994	845	857	800	621	768	768	928
52 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Total Contracts In	1217	1216	1369	1403	1738	1690	1508	1432	1236	1262	1205	911	1176	1043	1330

Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2011 - 2012 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Intra-Regional Transfers-															
1 AVWP To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
4 BPA To PPL PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
5 BPA To PPL CapS	184	184	0	0	0	0	0	0	0	0	0	0	0	0	15
6 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34	5.7
7 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
9 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4.3
10 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
11 GCPD To AVWP PwrS	18	18	18	0	0	0	0	0	0	0	0	0	0	0	3
12 GCPD To COPD PwrS	6	6	6	0	0	0	0	0	0	0	0	0	0	0	1
13 GCPD To EWEB PwrS	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0.8
14 GCPD To FGRV PwrS	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0.3
15 GCPD To FREC PwrS	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2
16 GCPD To KITT PwrS	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1
17 GCPD To KOOT PwrS	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2
18 GCPD To LVE PwrS	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2
19 GCPD To LVE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 GCPD To MCMN PwrS	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0.3
21 GCPD To MTFR PwrS	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0.3
22 GCPD To PGE PwrS	42	42	40	0	0	0	0	0	0	0	0	0	0	0	6.8
23 GCPD To PPL PwrS	42	42	40	0	0	0	0	0	0	0	0	0	0	0	6.8
24 GCPD To PPL PwrS	13	13	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	14	14	10.0
25 GCPD To PSE PwrS	24	24	23	0	0	0	0	0	0	0	0	0	0	0	3.9
26 GCPD To TPU PwrS	10	10	10	0	0	0	0	0	0	0	0	0	0	0	1.7
27 NWCP To PSE PwrS	4.8	4.8	4.9	5	4.8	2.8	3.7	3.7	4.5	4.6	4.6	4.6	4.7	4.8	4.4
28 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11	9.6
29 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
30 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 PPL To BPA PkRepl	184	184	0	0	0	0	0	0	0	0	0	0	0	0	15
32 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0	5.8
33 PPL To SUB PwrS	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
34 PSE To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
35 TAUC To AVWP PwrS	188	188	188	188	188	188	188	188	188	188	188	100	188	188	181
36 WSPE To PGE PwrS	42	41	41	35	36	40	44	40	40	38	64	42	46	41	41
37 Total Contracts	942	941	707	617	871	906	882	829	700	675	703	290	566	466	705
-Total Contracts Out-															
38 Federal System	197	197	42	108	363	418	391	347	217	188	190	0.1	53	67	199
39 Public Entities	190	190	163	13	11	11	12	11	12	15	15	17	36	38	44
40 Investor-Owned Entities	506	506	454	453	453	430	427	424	424	427	427	224	424	312	413
41 Other Entities	50	48	48	43	43	47	51	47	48	45	71	49	54	49	49
42 Total Contracts Out	942	941	707	617	871	906	882	829	700	675	703	290	566	466	705
-Total Contracts In-															
43 Federal System	195	196	147	146	143	120	120	120	120	123	123	11	123	11	115
44 Public Entities	64	64	57	30	34	34	30	27	27	27	27	24	24	24	33
45 Investor-Owned Entities	682	681	503	441	695	753	732	683	554	525	553	256	419	431	557
46 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Total Contracts In	942	941	707	617	871	906	882	829	700	675	703	290	566	466	705

Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Intra-Regional Transfers-															
1 AVWP To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
4 BPA To PPL PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
5 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34	5.7
6 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA To PSE WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
8 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4.3
9 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
10 GCPD To PPL PwrS	13	13	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	14	14	10.0
11 NWCP To PSE PwrS	4.8	4.8	4.9	5	4.8	2.8	0	0	0	0	0	0	0	0	1.9
12 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11	9.6
13 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
14 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0	5.8
16 PPL To SUB PwrS	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
17 PSE To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
18 TAUC To AVWP PwrS	188	188	188	188	188	188	188	188	188	188	188	188	100	188	181
19 WSPE To PGE PwrS	42	41	41	35	36	40	44	40	40	38	64	42	46	41	41
20 Total Contracts	417	415	559	617	871	906	878	825	696	671	699	374	474	461	647
-Total Contracts Out-															
21 Federal System	13	13	42	108	363	418	391	347	217	188	190	0.1	53	67	184
22 Public Entities	33	33	15	13	11	11	8.6	7.4	7.8	10	10	13	31	33	16
23 Investor-Owned Entities	322	322	454	453	453	430	427	424	424	427	427	312	336	312	398
24 Other Entities	50	48	48	43	43	47	51	47	48	45	71	49	54	49	49
25 Total Contracts Out	417	415	559	617	871	906	878	825	696	671	699	374	474	461	647
-Total Contracts In-															
26 Federal System	11	11	147	146	143	120	120	120	120	123	123	11	123	11	100
27 Public Entities	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
28 Investor-Owned Entities	372	371	382	441	695	753	728	679	549	521	548	339	327	426	519
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Contracts In	417	415	559	617	871	906	878	825	696	671	699	374	474	461	647

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resources Study
2013 - 2014 Operating Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Intra-Regional Transfers-															
1 AVWP To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
2 AVWP To PGE CapS	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3 BPA To AVWP WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
4 BPA To PPL PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
5 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA To PSE WP3Set	0	0	0	0	101	101	101	101	50	49	50	0	0	0	42
8 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4.3
9 FPLEV To PGE PwrS	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
10 GCPD To PPL PwrS	13	13	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	14	14	10.0
11 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11	9.6
12 PGE To AVWP PkRepl	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
13 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0	5.8
15 PPL To SUB PwrS	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
16 PSE To BPA WP3Set	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
17 TAUC To AVWP PwrS	188	188	188	188	188	188	188	188	188	188	188	100	188	188	181
18 WSPE To PGE PwrS	42	41	41	35	36	40	44	40	40	38	64	42	46	41	41
19 Total Contracts	412	411	554	612	866	903	878	825	696	671	699	286	527	427	639
-Total Contracts Out-															
20 Federal System	13	13	42	108	363	418	391	347	217	188	190	0.1	18	34	178
21 Public Entities	28	28	9.9	7.9	6.6	8.2	8.6	7.4	7.8	10	10	13	31	33	14
22 Investor-Owned Entities	322	322	454	453	453	430	427	424	424	427	427	224	424	312	398
23 Other Entities	50	48	48	43	43	47	51	47	48	45	71	49	54	49	49
24 Total Contracts Out	412	411	554	612	866	903	878	825	696	671	699	286	527	427	639
-Total Contracts In-															
25 Federal System	11	11	147	146	143	120	120	120	120	123	123	11	123	11	100
26 Public Entities	34	34	30	30	34	34	30	27	27	27	27	24	24	24	28
27 Investor-Owned Entities	368	366	377	436	690	750	728	679	549	521	548	251	380	392	511
28 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Total Contracts In	412	411	554	612	866	903	878	825	696	671	699	286	527	427	639

3/31/2004

[illegible]

Table A-17: Regional Capacity Reserves
PNW Loads and Resources Study
2004 - 2005 Operating Year
1937 Water Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
63 U.S. Naval Submarine Base, Bangor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
65 Chelan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Clark County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Cowlitz County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Douglas County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Eugene Water & Electric Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Grant County PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Grays Harbor PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Okanogan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Seattle City Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Snohomish County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Springfield Utility Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tacoma Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
78 Ashland, City of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Benton County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Clallam County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Clatskanie PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Consumers Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Emerald County PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Energy Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Fall River Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Franklin County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klickitat County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Lewis County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Mason County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Mason County PUD #3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Oregon Trail Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Tanner Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Tillamook PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
95 Avista Corp (WWP Division)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Idaho Power Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Pacific Power	0	0	0	0	0										

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Table A-17: Regional Capacity Reserves
PNW Loads and Resources Study
2005 - 2006 Operating Year
1937 Water Year
2003 White Book

Continued

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Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
63 U.S. Naval Submarine Base, Bangor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
65 Chelan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Clark County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Cowlitz County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Douglas County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Eugene Water & Electric Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Grant County PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Grays Harbor PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Okanogan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Seattle City Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Snohomish County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Springfield Utility Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tacoma Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
78 Ashland, City of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Benton County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Clallam County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Clatskanie PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Consumers Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Emerald County PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Energy Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Fall River Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Franklin County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klickitat County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Lewis County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Mason County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Mason County PUD #3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Oregon Trail Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Tanner Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Tillamook PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
95 Avista Corp (WWP Division)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Idaho Power Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Portland General Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100 Puget Sound Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101 Trans Alta Utilities Corp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102 Utah Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
104 Avista Energy Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105 Chehalis Power Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106 FPL Energy Vansycle LLC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107 Frederickson Power LP,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108 Hermiston Power Partnership	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Klamath Pacific Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110 Longview Fibre	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Mirant Americas Energy Marketing, L.P.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112 PPM Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 SP Newsprint	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
-Federal Entities-															
115 BPA - Power Business	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
117 Turlock Irrigation District	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
119 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															

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Small Thermal & Misc. Reserves

62 U.S. Naval Station, Everett (Jim Creek)

Table A-17: Regional Capacity Reserves
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2003 White Book

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3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
63 U.S. Naval Submarine Base, Bangor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
65 Chelan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Clark County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Cowlitz County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Douglas County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Eugene Water & Electric Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Grant County PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Grays Harbor PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Okanogan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Seattle City Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Snohomish County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Springfield Utility Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tacoma Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
78 Ashland, City of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Benton County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Clallam County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Clatskanie PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Consumers Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Emerald County PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Energy Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Fall River Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Franklin County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klickitat County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Lewis County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Mason County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Mason County PUD #3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Oregon Trail Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Tanner Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Tillamook PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
95 Avista Corp (WWP Division)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Idaho Power Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Pacific Power	0	0	0	0	0										

Continued

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Table A-17: Regional Capacity Reserves
PNW Loads and Resources Study
2008 - 2009 Operating Year
1937 Water Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
63 U.S. Naval Submarine Base, Bangor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
65 Chelan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Clark County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Cowlitz County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Douglas County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Eugene Water & Electric Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Grant County PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Grays Harbor PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Okanogan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Seattle City Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Snohomish County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Springfield Utility Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tacoma Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
78 Ashland, City of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Benton County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Clallam County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Clatskanie PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Consumers Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Emerald County PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Energy Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Fall River Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Franklin County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klickitat County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Lewis County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Mason County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Mason County PUD #3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Oregon Trail Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Tanner Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Tillamook PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
95 Avista Corp (WWP Division)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Idaho Power Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Pacific Power	0	0	0	0	0										

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Small Thermal & Misc. Reserves

**Table A-17: Regional Capacity Reserves
PNW Loads and Resources Study
2009 - 2010 Operating Year
1937 Water Year
2003 White Book**

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Small Thermal & Misc. Reserves

Table A-17: Regional Capacity Reserves
PNW Loads and Resources Study
2010 - 2011 Operating Year
1937 Water Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
63 U.S. Naval Submarine Base, Bangor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
65 Chelan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Clark County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Cowlitz County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Douglas County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Eugene Water & Electric Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Grant County PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Grays Harbor PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Okanogan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Seattle City Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Snohomish County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Springfield Utility Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tacoma Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
78 Ashland, City of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Benton County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Clallam County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Clatskanie PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Consumers Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Emerald County PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Energy Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Fall River Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Franklin County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klickitat County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Lewis County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Mason County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Mason County PUD #3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Oregon Trail Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Tanner Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Tillamook PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
95 Avista Corp (WWP Division)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Idaho Power Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Portland General Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100 Puget Sound Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101 Trans Alta Utilities Corp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102 Utah Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
104 Avista Energy Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105 Chehalis Power Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106 FPL Energy Vansycle LLC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107 Frederickson Power LP,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108 Hermiston Power Partnership	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Klamath Pacific Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110 Longview Fibre	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Mirant Americas Energy Marketing, L.P.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112 PPM Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 SP Newsprint	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
-Federal Entities-															
115 BPA - Power Business	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
117 Turlock Irrigation District	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
119 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															

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Small Thermal & Misc. Reserves

**Table A-17: Regional Capacity Reserves
PNW Loads and Resources Study
2011 - 2012 Operating Year
1937 Water Year
2003 White Book**

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
63 U.S. Naval Submarine Base, Bangor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
65 Chelan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Clark County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Cowlitz County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Douglas County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Eugene Water & Electric Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Grant County PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Grays Harbor PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Okanogan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Seattle City Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Snohomish County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Springfield Utility Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tacoma Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
78 Ashland, City of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Benton County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Clallam County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Clatskanie PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Consumers Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Emerald County PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Energy Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Fall River Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Franklin County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klickitat County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Lewis County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Mason County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Mason County PUD #3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Oregon Trail Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Tanner Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Tillamook PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
95 Avista Corp (WWP Division)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Idaho Power Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Portland General Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100 Puget Sound Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101 Trans Alta Utilities Corp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102 Utah Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
104 Avista Energy Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105 Chehalis Power Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106 FPL Energy Vansycle LLC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107 Frederickson Power LP,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108 Hermiston Power Partnership	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Klamath Pacific Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110 Longview Fibre	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Mirant Americas Energy Marketing, L.P.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112 PPM Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 SP Newsprint	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
-Federal Entities-															
115 BPA - Power Business	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
117 Turlock Irrigation District	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
119 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															

Continued

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Small Thermal & Misc. Reserves

**Table A-17: Regional Capacity Reserves
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2003 White Book**

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
63 U.S. Naval Submarine Base, Bangor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
65 Chelan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Clark County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Cowlitz County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Douglas County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Eugene Water & Electric Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Grant County PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Grays Harbor PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Okanogan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Seattle City Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Snohomish County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Springfield Utility Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tacoma Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
78 Ashland, City of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Benton County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Clallam County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Clatskanie PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Consumers Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Emerald County PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Energy Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Fall River Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Franklin County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klickitat County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Lewis County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Mason County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Mason County PUD #3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Oregon Trail Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Tanner Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Tillamook PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
95 Avista Corp (WWP Division)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Idaho Power Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Portland General Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100 Puget Sound Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101 Trans Alta Utilities Corp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102 Utah Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
104 Avista Energy Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105 Chehalis Power Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106 FPL Energy Vansycle LLC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107 Frederickson Power LP,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108 Hermiston Power Partnership	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Klamath Pacific Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110 Longview Fibre	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Mirant Americas Energy Marketing, L.P.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112 PPM Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 SP Newsprint	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
-Federal Entities-															
115 BPA - Power Business	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
117 Turlock Irrigation District	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
119 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															

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Small Thermal & Misc. Reserves

**Table A-17: Regional Capacity Reserves
PNW Loads and Resources Study
2013 - 2014 Operating Year
1937 Water Year
2003 White Book**

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
63 U.S. Naval Submarine Base, Bangor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
65 Chelan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Clark County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Cowlitz County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Douglas County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Eugene Water & Electric Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Grant County PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Grays Harbor PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Okanogan County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Seattle City Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Snohomish County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Springfield Utility Board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tacoma Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
78 Ashland, City of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Benton County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Clallam County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Clatskanie PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Consumers Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Emerald County PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Energy Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Fall River Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Franklin County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klickitat County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Lewis County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Mason County PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Mason County PUD #3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Oregon Trail Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Tanner Elec Coop	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Tillamook PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
95 Avista Corp (WWP Division)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Idaho Power Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Portland General Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100 Puget Sound Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101 Trans Alta Utilities Corp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102 Utah Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
104 Avista Energy Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105 Chehalis Power Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106 FPL Energy Vansycle LLC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107 Frederickson Power LP,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108 Hermiston Power Partnership	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Klamath Pacific Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110 Longview Fibre	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Mirant Americas Energy Marketing, L.P.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112 PPM Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 SP Newsprint	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
-Federal Entities-															
115 BPA - Power Business	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116 Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
117 Turlock Irrigation District	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-															
119 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															

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Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2004 - 2005 Operating Year
1937 Water Year
2003 White Book

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<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44

Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2005 - 2006 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44

Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2006 - 2007 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44

Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44

Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2008 - 2009 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44

Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2009 - 2010 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	31	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	31	9.9	51	57	44

Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2010 - 2011 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44

Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2011 - 2012 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44

Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44

Table A-18: Wells and Chelan Allocation
PNW Loads and Resources Study
2013 - 2014 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Wells-															
1 Wells	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
2 Wells Before Enc	591	478	310	391	467	459	359	339	337	340	317	309	452	453	395
-Wells-															
3 AVWP Share	20	16	9.9	13	16	15	12	11	11	11	10	9.9	15	15	13
4 DOPD Share	150	119	74	96	116	114	87	82	82	82	76	74	113	112	97
5 OKPD Share	43	34	22	28	34	33	25	24	24	24	22	21	33	32	28
6 PGE Share	115	91	57	73	89	87	67	63	62	63	58	56	86	85	74
7 PPL Share	39	31	19	25	30	30	23	21	21	21	20	19	29	29	25
8 PSE Share	175	139	87	112	136	133	102	96	95	96	89	86	131	131	113
9 Wells After Enc	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
-Chelan-															
10 Chelan	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
11 Chelan Before Enc	28	20	17	53	53	52	51	50	50	48	28	5.9	48	54	41
-Chelan-															
12 CHPD Share	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
13 Chelan After Enc	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2004 - 2005 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2005 - 2006 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2006 - 2007 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2008 - 2009 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2009 - 2010 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2010 - 2011 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2011 - 2012 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resources Study
2013 - 2014 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Rocky Reach-															
1 Rocky Reach	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
2 Rocky Reach Before Enc	808	641	403	528	637	628	487	458	459	460	400	378	624	609	531
-Rocky Reach-															
3 AVWP Share	24	19	12	16	19	19	15	14	14	14	12	11	19	18	16
4 CHPD Share	125	100	64	83	99	98	76	72	72	72	63	60	97	95	83
5 CLKM Share	190	152	97	126	151	149	116	109	109	109	96	91	148	144	126
6 DOPD Share	23	18	12	15	18	18	14	13	13	13	12	11	18	17	15
7 PGE Share	99	79	50	66	79	78	60	57	57	57	50	47	77	75	66
8 PPL Share	44	35	22	29	35	34	27	25	25	25	22	21	34	33	29
9 PSE Share	322	257	163	213	255	251	196	185	185	185	162	153	250	244	213
10 Rocky Reach After Enc	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
-Rock Island PH#1-															
11 Rock Island PH#1	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
12 Rock Island PH#1 Before Enc	142	148	108	132	148	147	125	119	119	119	119	119	147	148	131
-Rock Island PH#1-															
13 CHPD Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
14 PSE Share	87	94	72	85	93	92	81	78	78	80	85	87	95	96	86
15 Rock Island PH#1 After Enc	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
-Rock Island PH#2-															
16 Rock Island PH#2	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
17 Rock Island PH#2 Before Enc	161	116	75	104	129	127	94	86	86	72	29	18	93	80	90
-Rock Island PH#2-															
18 CHPD Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
19 PSE Share	99	73	50	67	81	80	61	57	57	48	21	13	60	52	58
20 Rock Island PH#2 After Enc	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resources Study
2004 - 2005 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	40	29	24	33	41	40	29	27	27	19	19	19	32	31	30
4 COPD Share	13	9.5	7.8	11	13	13	9.7	9.0	9.0	6.2	6.2	6.2	11	10	9.8
5 CWPC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EWEB Share	11	8.1	6.7	9.2	11	11	8.3	7.7	7.7	5.3	5.3	5.3	9.1	8.6	8.3
7 FGRV Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
8 FREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GCPD Share	177	128	106	145	181	178	131	121	121	84	84	83	144	137	132
10 ICLP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 KITT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 KOOT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LVE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 MCMN Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
16 MTFR Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
17 NLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PGE Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
19 PPL Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
20 PSE Share	52	38	31	43	54	53	39	36	36	25	25	25	43	41	39
21 RREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 SCL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 SLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 TPU Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 UNEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
-Priest Rapids-															
27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	23	18	21	28	33	33	25	24	24	3.3	3.3	3.3	13	19	21
30 COPD Share	7.7	6	6.9	9	11	11	8.3	7.8	7.8	1.1	1.1	1.1	4.2	6.3	6.7
31 CWPC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 EWEB Share	6.5	5.1	5.9	7.7	9.2	9.1	7.1	6.6	6.6	0.9	0.9	0.9	3.6	5.4	5.7
33 FGRV Share	1.9	1.5	1.7	2.3	2.7	2.7	2.1	1.9	1.9	0.3	0.3	0.3	1.1	1.6	1.7
34 FREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 GCPD Share	140	110	127	165	197	195	152	142	142	20	20	20	77	116	123
36 ICLP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 KITT Share	1.5	1.2	1.4	1.8	2.2	2.1	1.7	1.6	1.6	0.2	0.2	0.2	0.8	1.3	1.3
38 KOOT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 LREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 LVE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 MCMN Share	1.9	1.5	1.7	2.3	2.7	2.7	2.1	1.9	1.9	0.3	0.3	0.3	1.1	1.6	1.7
42 MTFR Share	1.9	1.5	1.7	2.3	2.7	2.7	2.1	1.9	1.9	0.3	0.3	0.3	1.1	1.6	1.7
43 NLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 PGE Share	53	42	48	63	75	74	58	54	54	7.6	7.6	7.6	29	44	47
45 PPL Share	53	42	48	63	75	74	58	54	54	7.6	7.6	7.6	29	44	47
46 PSE Share	31	24	28	36	43	43	33	31	31	4.4	4.4	4.4	17	25	27
47 RREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 SCL Share	31	24	28	36	43	43	33	31	31	4.4	4.4	4.4	17	25	27
49 SLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 TPU Share	31	24	28	36	43	43	33	31	31	4.4	4.4	4.4	17	25	27
51 UNEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

Table A-20: Wanapum and Priest Rapids Allocation PNW Loads and Resources Study 2005 - 2006 Operating Year 1937 Water Year 2003 White Book															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	40	29	24	33	41	40	29	27	27	19	19	19	32	31	30
4 COPD Share	13	9.5	7.8	11	13	13	9.7	9.0	9.0	6.2	6.2	6.2	11	10	9.8
5 CWPC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EWEB Share	11	8.1	6.7	9.2	11	11	8.3	7.7	7.7	5.3	5.3	5.3	9.1	8.6	8.3
7 FGRV Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
8 FREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GCPD Share	177	128	106	145	181	178	131	121	121	84	84	83	144	137	132
10 ICLP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 KITT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 KOOT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LVE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 MCMN Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
16 MTFR Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
17 NLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PGE Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
19 PPL Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
20 PSE Share	52	38	31	43	54	53	39	36	36	25	25	25	43	41	39
21 RREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 SCL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 SLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 TPU Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 UNEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
-Priest Rapids-															
27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	23	18	21	28	16	15	12	11	11	1.6	1.6	1.6	6.1	9.1	13
30 COPD Share	7.7	6	6.9	9	5.1	5	3.9	3.7	3.7	0.5	0.5	0.5	2	3.0	4.2
31 CWPC Share	0	0	0	0	0.4	0.4	0.3	0.3	0.3	0	0	0	0.2	0.2	0.2
32 EWEB Share	6.5	5.1	5.9	7.7	4.3	4.3	3.3	3.1	3.1	0.4	0.4	0.4	1.7	2.5	3.6
33 FGRV Share	1.9	1.5	1.7	2.3	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	1
34 FREC Share	0	0	0	0	0.5	0.5	0.4	0.3	0.3	0	0	0	0.2	0.3	0.2
35 GCPD Share	140	110	127	165	378	373	291	272	272	38	38	38	149	222	204
36 ICLP Share	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
37 KITT Share	1.5	1.2	1.4	1.8	0.9	0.9	0.7	0.7	0.7	0.1	0.1	0.1	0.4	0.5	0.8
38 KOOT Share	0	0	0	0	0.7	0.7	0.6	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.3
39 LREC Share	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0
40 LVE Share	0	0	0	0	0.8	0.8	0.6	0.6	0.6	0.1	0.1	0.1	0.3	0.5	0.4
41 MCMN Share	1.9	1.5	1.7	2.3	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	1
42 MTFR Share	1.9	1.5	1.7	2.3	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	1
43 NLEC Share	0	0	0	0	0.6	0.6	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.3
44 PGE Share	53	42	48	63	35	35	27	25	25	3.6	3.6	3.6	14	21	29
45 PPL Share	53	42	48	63	35	35	27	25	25	3.6	3.6	3.6	14	21	29
46 PSE Share	31	24	28	36	20	20	16	15	15	2.1	2.1	2.1	8	12	17
47 RREC Share	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
48 SCL Share	31	24	28	36	19	18	14	13	13	1.9	1.9	1.9	7.4	11	16
49 SLEC Share	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0.1
50 TPU Share	31	24	28	36	19	18	14	13	13	1.9	1.9	1.9	7.4	11	16
51 UNEC Share	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0	0	0	0.1	0.1	0.1
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resources Study
2006 - 2007 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	40	29	24	33	41	40	29	27	27	19	19	19	32	31	30
4 COPD Share	13	9.5	7.8	11	13	13	9.7	9.0	9.0	6.2	6.2	6.2	11	10	9.8
5 CWPC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EWEB Share	11	8.1	6.7	9.2	11	11	8.3	7.7	7.7	5.3	5.3	5.3	9.1	8.6	8.3
7 FGRV Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
8 FREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GCPD Share	177	128	106	145	181	178	131	121	121	84	84	83	144	137	132
10 ICLP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 KITT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 KOOT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LVE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 MCMN Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
16 MTFR Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
17 NLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PGE Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
19 PPL Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
20 PSE Share	52	38	31	43	54	53	39	36	36	25	25	25	43	41	39
21 RREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 SCL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 SLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 TPU Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 UNEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
-Priest Rapids-															
27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	11	8.6	10.0	13	16	15	12	11	11	1.6	1.6	1.6	6.1	9.1	9.7
30 COPD Share	3.6	2.8	3.3	4.3	5.1	5	3.9	3.7	3.7	0.5	0.5	0.5	2	3.0	3.2
31 CWPC Share	0.3	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0	0	0	0.2	0.2	0.3
32 EWEB Share	3.1	2.4	2.8	3.6	4.3	4.3	3.3	3.1	3.1	0.4	0.4	0.4	1.7	2.5	2.7
33 FGRV Share	0.9	0.7	0.8	1.1	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	0.8
34 FREC Share	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.3	0.3	0	0	0	0.2	0.3	0.3
35 GCPD Share	269	211	243	316	378	373	291	272	272	38	38	38	149	222	236
36 ICLP Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
37 KITT Share	0.7	0.5	0.6	0.8	0.9	0.9	0.7	0.7	0.7	0.1	0.1	0.1	0.4	0.5	0.6
38 KOOT Share	0.5	0.4	0.5	0.6	0.7	0.7	0.6	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
39 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0.1
40 LVE Share	0.6	0.5	0.5	0.7	0.8	0.8	0.6	0.6	0.6	0.1	0.1	0.1	0.3	0.5	0.5
41 MCMN Share	0.9	0.7	0.8	1.1	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	0.8
42 MTFR Share	0.9	0.7	0.8	1.1	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	0.8
43 NLEC Share	0.5	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
44 PGE Share	25	20	23	30	35	35	27	25	25	3.6	3.6	3.6	14	21	22
45 PPL Share	25	20	23	30	35	35	27	25	25	3.6	3.6	3.6	14	21	22
46 PSE Share	15	11	13	17	20	20	16	15	15	2.1	2.1	2.1	8	12	13
47 RREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
48 SCL Share	13	10	12	16	19	18	14	13	13	1.9	1.9	1.9	7.4	11	12
49 SLEC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0.1
50 TPU Share	13	10	12	16	19	18	14	13	13	1.9	1.9	1.9	7.4	11	12
51 UNEC Share	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0.1	0.1	0.1
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

Table A-20: Wanapum and Priest Rapids Allocation PNW Loads and Resources Study 2007 - 2008 Operating Year 1937 Water Year 2003 White Book															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	40	29	24	33	41	40	29	27	27	19	19	19	32	31	30
4 COPD Share	13	9.5	7.8	11	13	13	9.7	9.0	9.0	6.2	6.2	6.2	11	10	9.8
5 CWPC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EWEB Share	11	8.1	6.7	9.2	11	11	8.3	7.7	7.7	5.3	5.3	5.3	9.1	8.6	8.3
7 FGRV Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
8 FREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GCPD Share	177	128	106	145	181	178	131	121	121	84	84	83	144	137	132
10 ICLP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 KITT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 KOOT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LVE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 MCMN Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
16 MTFR Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
17 NLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PGE Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
19 PPL Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
20 PSE Share	52	38	31	43	54	53	39	36	36	25	25	25	43	41	39
21 RREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 SCL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 SLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 TPU Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 UNEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
-Priest Rapids-															
27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	11	8.6	10.0	13	16	15	12	11	11	1.6	1.6	1.6	6.1	9.1	9.7
30 COPD Share	3.6	2.8	3.3	4.3	5.1	5	3.9	3.7	3.7	0.5	0.5	0.5	2	3.0	3.2
31 CWPC Share	0.3	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0	0	0	0.2	0.2	0.3
32 EWEB Share	3.1	2.4	2.8	3.6	4.3	4.3	3.3	3.1	3.1	0.4	0.4	0.4	1.7	2.5	2.7
33 FGRV Share	0.9	0.7	0.8	1.1	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	0.8
34 FREC Share	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.3	0.3	0	0	0	0.2	0.3	0.3
35 GCPD Share	269	211	243	316	378	373	291	272	272	38	38	38	149	222	236
36 ICLP Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
37 KITT Share	0.7	0.5	0.6	0.8	0.9	0.9	0.7	0.7	0.7	0.1	0.1	0.1	0.4	0.5	0.6
38 KOOT Share	0.5	0.4	0.5	0.6	0.7	0.7	0.6	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
39 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0.1
40 LVE Share	0.6	0.5	0.5	0.7	0.8	0.8	0.6	0.6	0.6	0.1	0.1	0.1	0.3	0.5	0.5
41 MCMN Share	0.9	0.7	0.8	1.1	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	0.8
42 MTFR Share	0.9	0.7	0.8	1.1	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	0.8
43 NLEC Share	0.5	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
44 PGE Share	25	20	23	30	35	35	27	25	25	3.6	3.6	3.6	14	21	22
45 PPL Share	25	20	23	30	35	35	27	25	25	3.6	3.6	3.6	14	21	22
46 PSE Share	15	11	13	17	20	20	16	15	15	2.1	2.1	2.1	8	12	13
47 RREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
48 SCL Share	13	10	12	16	19	18	14	13	13	1.9	1.9	1.9	7.4	11	12
49 SLEC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0.1
50 TPU Share	13	10	12	16	19	18	14	13	13	1.9	1.9	1.9	7.4	11	12
51 UNEC Share	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0.1	0.1	0.1
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

Table A-20: Wanapum and Priest Rapids Allocation PNW Loads and Resources Study 2008 - 2009 Operating Year 1937 Water Year 2003 White Book															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	40	29	24	33	41	40	29	27	27	19	19	19	32	31	30
4 COPD Share	13	9.5	7.8	11	13	13	9.7	9.0	9.0	6.2	6.2	6.2	11	10	9.8
5 CWPC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EWEB Share	11	8.1	6.7	9.2	11	11	8.3	7.7	7.7	5.3	5.3	5.3	9.1	8.6	8.3
7 FGRV Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
8 FREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GCPD Share	177	128	106	145	181	178	131	121	121	84	84	83	144	137	132
10 ICLP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 KITT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 KOOT Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LVE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 MCMN Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
16 MTFR Share	3.4	2.5	2	2.8	3.5	3.4	2.5	2.3	2.3	1.6	1.6	1.6	2.8	2.6	2.5
17 NLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PGE Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
19 PPL Share	90	66	54	74	93	91	67	62	62	43	43	43	74	70	68
20 PSE Share	52	38	31	43	54	53	39	36	36	25	25	25	43	41	39
21 RREC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 SCL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 SLEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 TPU Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 UNEC Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
-Priest Rapids-															
27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	11	8.6	10.0	13	16	15	12	11	11	1.6	1.6	1.6	6.1	9.1	9.7
30 COPD Share	3.6	2.8	3.3	4.3	5.1	5	3.9	3.7	3.7	0.5	0.5	0.5	2	3.0	3.2
31 CWPC Share	0.3	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0	0	0	0.2	0.2	0.3
32 EWEB Share	3.1	2.4	2.8	3.6	4.3	4.3	3.3	3.1	3.1	0.4	0.4	0.4	1.7	2.5	2.7
33 FGRV Share	0.9	0.7	0.8	1.1	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	0.8
34 FREC Share	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.3	0.3	0	0	0	0.2	0.3	0.3
35 GCPD Share	269	211	243	316	378	373	291	272	272	38	38	38	149	222	236
36 ICLP Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
37 KITT Share	0.7	0.5	0.6	0.8	0.9	0.9	0.7	0.7	0.7	0.1	0.1	0.1	0.4	0.5	0.6
38 KOOT Share	0.5	0.4	0.5	0.6	0.7	0.7	0.6	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
39 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0.1
40 LVE Share	0.6	0.5	0.5	0.7	0.8	0.8	0.6	0.6	0.6	0.1	0.1	0.1	0.3	0.5	0.5
41 MCMN Share	0.9	0.7	0.8	1.1	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	0.8
42 MTFR Share	0.9	0.7	0.8	1.1	1.3	1.3	1.0	0.9	0.9	0.1	0.1	0.1	0.5	0.8	0.8
43 NLEC Share	0.5	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
44 PGE Share	25	20	23	30	35	35	27	25	25	3.6	3.6	3.6	14	21	22
45 PPL Share	25	20	23	30	35	35	27	25	25	3.6	3.6	3.6	14	21	22
46 PSE Share	15	11	13	17	20	20	16	15	15	2.1	2.1	2.1	8	12	13
47 RREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
48 SCL Share	13	10	12	16	19	18	14	13	13	1.9	1.9	1.9	7.4	11	12
49 SLEC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0.1
50 TPU Share	13	10	12	16	19	18	14	13	13	1.9	1.9	1.9	7.4	11	12
51 UNEC Share	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0.1	0.1	0.1
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resources Study
2009 - 2010 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	40	29	24	33	22	22	16	15	15	10	10	10	18	17	20
4 COPD Share	13	9.5	7.8	11	7.2	7.1	5.2	4.8	4.8	3.3	3.3	3.3	5.8	5.5	6.4
5 CWPC Share	0	0	0	0	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.4	0.3
6 EWEB Share	11	8.1	6.7	9.2	6.2	6.1	4.5	4.1	4.1	2.8	2.8	2.8	4.9	4.6	5.5
7 FGRV Share	3.4	2.5	2	2.8	1.8	1.8	1.3	1.2	1.2	0.8	0.8	0.8	1.5	1.4	1.6
8 FREC Share	0	0	0	0	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.3
9 GCPD Share	177	128	106	145	296	291	214	198	198	136	136	136	236	224	195
10 ICLP Share	0	0	0	0	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11 KITT Share	0	0	0	0	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.3
12 KOOT Share	0	0	0	0	0.9	0.9	0.7	0.6	0.6	0.4	0.4	0.4	0.8	0.7	0.5
13 LREC Share	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14 LVE Share	0	0	0	0	1.1	1.1	0.8	0.7	0.7	0.5	0.5	0.5	0.9	0.8	0.6
15 MCMN Share	3.4	2.5	2	2.8	1.8	1.8	1.3	1.2	1.2	0.8	0.8	0.8	1.5	1.4	1.6
16 MTFR Share	3.4	2.5	2	2.8	1.8	1.8	1.3	1.2	1.2	0.8	0.8	0.8	1.5	1.4	1.6
17 NLEC Share	0	0	0	0	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.7	0.6	0.5
18 PGE Share	90	66	54	74	50	49	36	34	34	23	23	23	40	38	44
19 PPL Share	90	66	54	74	50	49	36	34	34	23	23	23	40	38	44
20 PSE Share	52	38	31	43	29	28	21	19	19	13	13	13	23	22	26
21 RREC Share	0	0	0	0	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22 SCL Share	0	0	0	0	12	12	8.9	8.2	8.2	5.7	5.7	5.7	9.8	9.3	6.7
23 SLEC Share	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
24 TPU Share	0	0	0	0	12	12	8.9	8.2	8.2	5.7	5.7	5.7	9.8	9.3	6.7
25 UNEC Share	0	0	0	0	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.2	0.2
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
-Priest Rapids-															
27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	11	8.6	10.0	13	24	24	18	17	17	2.4	2.4	2.4	9.4	14	13
30 COPD Share	3.6	2.8	3.3	4.3	7.9	7.8	6.1	5.7	5.7	0.8	0.8	0.8	3.1	4.6	4.4
31 CWPC Share	0.3	0.2	0.3	0.3	0.6	0.6	0.5	0.4	0.4	0.1	0.1	0.1	0.2	0.3	0.3
32 EWEB Share	3.1	2.4	2.8	3.6	6.7	6.6	5.1	4.8	4.8	0.7	0.7	0.7	2.6	3.9	3.8
33 FGRV Share	0.9	0.7	0.8	1.1	2	2.0	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.2	1.1
34 FREC Share	0.3	0.3	0.3	0.4	0.7	0.7	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
35 GCPD Share	269	211	243	316	322	318	248	232	232	33	33	33	127	189	211
36 ICLP Share	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
37 KITT Share	0.7	0.5	0.6	0.8	0.7	0.7	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.5
38 KOOT Share	0.5	0.4	0.5	0.6	1	1	0.8	0.7	0.7	0.1	0.1	0.1	0.4	0.6	0.6
39 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
40 LVE Share	0.6	0.5	0.5	0.7	1.2	1.2	0.9	0.9	0.9	0.1	0.1	0.1	0.5	0.7	0.7
41 MCMN Share	0.9	0.7	0.8	1.1	2	2.0	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.2	1.1
42 MTFR Share	0.9	0.7	0.8	1.1	2	2.0	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.2	1.1
43 NLEC Share	0.5	0.4	0.4	0.5	0.9	0.9	0.7	0.7	0.7	0.1	0.1	0.1	0.4	0.5	0.5
44 PGE Share	25	20	23	30	55	54	42	39	39	5.5	5.5	5.5	21	32	31
45 PPL Share	25	20	23	30	55	54	42	39	39	5.5	5.5	5.5	21	32	31
46 PSE Share	15	11	13	17	31	31	24	23	23	3.2	3.2	3.2	12	18	18
47 RREC Share	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
48 SCL Share	13	10	12	16	13	13	10	9.6	9.6	1.4	1.4	1.4	5.3	7.8	9.3
49 SLEC Share	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
50 TPU Share	13	10	12	16	13	13	10	9.6	9.6	1.4	1.4	1.4	5.3	7.8	9.3
51 UNEC Share	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0	0	0	0.1	0.2	0.2
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

Table A-20: Wanapum and Priest Rapids Allocation PNW Loads and Resources Study 2010 - 2011 Operating Year 1937 Water Year 2003 White Book															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	21	16	13	18	22	21	16	15	15	10.0	10.0	10.0	17	16	16
4 COPD Share	7	5.1	4.2	5.8	7.1	7	5.2	4.8	4.8	3.3	3.3	3.3	5.7	5.4	5.2
5 CWPC Share	0.5	0.4	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.4	0.4
6 EWEB Share	6.0	4.3	3.6	4.9	6.1	6.0	4.4	4.1	4.1	2.8	2.8	2.8	4.8	4.6	4.4
7 FGRV Share	1.8	1.3	1.1	1.5	1.8	1.8	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.4	1.3
8 FREC Share	0.6	0.4	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.5
9 GCPD Share	288	209	173	237	299	294	216	200	200	138	138	138	238	226	217
10 ICLP Share	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11 KITT Share	0.6	0.4	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4
12 KOOT Share	0.9	0.7	0.6	0.8	0.9	0.9	0.7	0.6	0.6	0.4	0.4	0.4	0.7	0.7	0.7
13 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14 LVE Share	1.1	0.8	0.6	0.9	1.1	1.1	0.8	0.7	0.7	0.5	0.5	0.5	0.9	0.8	0.8
15 MCMN Share	1.8	1.3	1.1	1.5	1.8	1.8	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.4	1.3
16 MTFR Share	1.8	1.3	1.1	1.5	1.8	1.8	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.4	1.3
17 NLEC Share	0.8	0.6	0.5	0.7	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.7	0.6	0.6
18 PGE Share	49	35	29	40	49	49	36	33	33	23	23	23	39	37	36
19 PPL Share	49	35	29	40	49	49	36	33	33	23	23	23	39	37	36
20 PSE Share	28	20	17	23	29	28	21	19	19	13	13	13	23	22	21
21 RREC Share	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22 SCL Share	12	8.7	7.2	9.9	12	12	8.8	8.1	8.1	5.6	5.6	5.6	9.6	9.2	8.9
23 SLEC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
24 TPU Share	12	8.7	7.2	9.9	12	12	8.8	8.1	8.1	5.6	5.6	5.6	9.6	9.2	8.9
25 UNEC Share	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
-Priest Rapids-															
27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	17	13	15	20	24	23	18	17	17	2.4	2.4	2.4	9.3	14	15
30 COPD Share	5.6	4.4	5.1	6.6	7.8	7.6	6.0	5.6	5.6	0.8	0.8	0.8	3	4.5	4.9
31 CWPC Share	0.4	0.3	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.1	0.1	0.1	0.2	0.3	0.4
32 EWEB Share	4.8	3.7	4.3	5.6	6.6	6.5	5.1	4.7	4.7	0.7	0.7	0.7	2.6	3.9	4.1
33 FGRV Share	1.4	1.1	1.3	1.7	2.0	2.0	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.2	1.2
34 FREC Share	0.5	0.4	0.4	0.6	0.7	0.7	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
35 GCPD Share	229	180	207	270	326	321	250	234	234	33	33	33	128	191	203
36 ICLP Share	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
37 KITT Share	0.5	0.4	0.4	0.6	0.7	0.7	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
38 KOOT Share	0.7	0.6	0.7	0.9	1	1.0	0.8	0.7	0.7	0.1	0.1	0.1	0.4	0.6	0.6
39 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
40 LVE Share	0.9	0.7	0.8	1.0	1.2	1.2	0.9	0.8	0.8	0.1	0.1	0.1	0.5	0.7	0.7
41 MCMN Share	1.4	1.1	1.3	1.7	2.0	2.0	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.2	1.2
42 MTFR Share	1.4	1.1	1.3	1.7	2.0	2.0	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.2	1.2
43 NLEC Share	0.7	0.5	0.6	0.8	0.9	0.9	0.7	0.6	0.6	0.1	0.1	0.1	0.4	0.5	0.6
44 PGE Share	39	30	35	46	54	53	41	39	39	5.5	5.5	5.5	21	32	34
45 PPL Share	39	30	35	46	54	53	41	39	39	5.5	5.5	5.5	21	32	34
46 PSE Share	22	18	20	26	31	31	24	22	22	3.1	3.1	3.1	12	18	19
47 RREC Share	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
48 SCL Share	9.5	7.5	8.6	11	13	13	10	9.5	9.5	1.3	1.3	1.3	5.2	7.7	8.3
49 SLEC Share	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
50 TPU Share	9.5	7.5	8.6	11	13	13	10	9.5	9.5	1.3	1.3	1.3	5.2	7.7	8.3
51 UNEC Share	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0	0	0	0.1	0.2	0.2
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resources Study
2011 - 2012 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	21	15	13	17	21	21	16	14	14	9.9	9.9	9.9	17	16	16
4 COPD Share	6.9	5	4.2	5.7	7.1	6.9	5.1	4.7	4.7	3.2	3.2	3.2	5.6	5.3	5.2
5 CWPC Share	0.5	0.4	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.4	0.4
6 EWEB Share	5.9	4.3	3.5	4.9	6.0	5.9	4.3	4	4	2.8	2.8	2.8	4.8	4.5	4.4
7 FGRV Share	1.8	1.3	1.1	1.5	1.8	1.8	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.4	1.3
8 FREC Share	0.6	0.4	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4
9 GCPD Share	291	211	175	240	302	296	218	202	202	139	139	139	240	228	219
10 ICLP Share	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11 KITT Share	0.6	0.4	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4
12 KOOT Share	0.9	0.7	0.5	0.7	0.9	0.9	0.7	0.6	0.6	0.4	0.4	0.4	0.7	0.7	0.7
13 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14 LVE Share	1.1	0.8	0.6	0.9	1.1	1.1	0.8	0.7	0.7	0.5	0.5	0.5	0.8	0.8	0.8
15 MCMN Share	1.8	1.3	1.1	1.5	1.8	1.8	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.4	1.3
16 MTFR Share	1.8	1.3	1.1	1.5	1.8	1.8	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.4	1.3
17 NLEC Share	0.8	0.6	0.5	0.7	0.8	0.8	0.6	0.5	0.5	0.4	0.4	0.4	0.7	0.6	0.6
18 PGE Share	48	35	29	40	49	48	35	33	33	23	23	22	39	37	36
19 PPL Share	48	35	29	40	49	48	35	33	33	23	23	23	39	37	36
20 PSE Share	28	20	17	23	28	28	20	19	19	13	13	13	22	21	21
21 RREC Share	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22 SCL Share	12	8.6	7.1	9.7	12	12	8.7	8	8	5.5	5.5	5.5	9.5	9.1	8.8
23 SLEC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
24 TPU Share	12	8.6	7.1	9.7	12	12	8.7	8	8	5.5	5.5	5.5	9.5	9.1	8.8
25 UNEC Share	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
-Priest Rapids-															
27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	17	13	15	20	23	23	18	17	17	2.4	2.4	2.4	9.2	14	15
30 COPD Share	5.5	4.3	5.0	6.5	7.7	7.6	5.9	5.5	5.5	0.8	0.8	0.8	3	4.5	4.8
31 CWPC Share	0.4	0.3	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.1	0.1	0.1	0.2	0.3	0.4
32 EWEB Share	4.7	3.7	4.2	5.5	6.5	6.4	5	4.7	4.7	0.7	0.7	0.7	2.6	3.8	4.1
33 FGRV Share	1.4	1.1	1.3	1.7	2.0	1.9	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.1	1.2
34 FREC Share	0.5	0.4	0.4	0.6	0.7	0.7	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
35 GCPD Share	232	182	209	272	328	323	252	236	236	33	33	33	129	192	204
36 ICLP Share	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
37 KITT Share	0.5	0.4	0.4	0.6	0.7	0.7	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
38 KOOT Share	0.7	0.6	0.6	0.8	1	1.0	0.8	0.7	0.7	0.1	0.1	0.1	0.4	0.6	0.6
39 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
40 LVE Share	0.8	0.7	0.8	1.0	1.2	1.1	0.9	0.8	0.8	0.1	0.1	0.1	0.5	0.7	0.7
41 MCMN Share	1.4	1.1	1.3	1.7	2.0	1.9	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.1	1.2
42 MTFR Share	1.4	1.1	1.3	1.7	2.0	1.9	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.1	1.2
43 NLEC Share	0.6	0.5	0.6	0.8	0.9	0.9	0.7	0.6	0.6	0.1	0.1	0.1	0.4	0.5	0.6
44 PGE Share	38	30	35	45	53	52	41	38	38	5.4	5.4	5.4	21	31	33
45 PPL Share	38	30	35	45	53	52	41	38	38	5.4	5.4	5.4	21	31	33
46 PSE Share	22	17	20	26	31	30	24	22	22	3.1	3.1	3.1	12	18	19
47 RREC Share	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
48 SCL Share	9.4	7.4	8.5	11	13	13	10	9.4	9.4	1.3	1.3	1.3	5.1	7.6	8.2
49 SLEC Share	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
50 TPU Share	9.4	7.4	8.5	11	13	13	10	9.4	9.4	1.3	1.3	1.3	5.1	7.6	8.2
51 UNEC Share	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0	0	0	0.1	0.2	0.2
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	21	15	13	17	21	21	15	14	14	9.7	9.7	9.7	17	16	15
4 COPD Share	6.9	5.0	4.1	5.7	6.9	6.8	5.0	4.6	4.6	3.2	3.2	3.2	5.5	5.2	5.1
5 CWPC Share	0.5	0.4	0.3	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.4
6 EWEB Share	5.8	4.2	3.5	4.8	5.9	5.8	4.3	3.9	3.9	2.7	2.7	2.7	4.7	4.4	4.3
7 FGRV Share	1.8	1.3	1.1	1.4	1.8	1.7	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.3	1.3
8 FREC Share	0.6	0.4	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4
9 GCPD Share	293	213	176	241	305	300	221	204	204	141	141	140	243	231	222
10 ICLP Share	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11 KITT Share	0.6	0.4	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.4	0.4
12 KOOT Share	0.9	0.6	0.5	0.7	0.9	0.9	0.7	0.6	0.6	0.4	0.4	0.4	0.7	0.7	0.7
13 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14 LVE Share	1	0.8	0.6	0.9	1	1	0.8	0.7	0.7	0.5	0.5	0.5	0.8	0.8	0.8
15 MCMN Share	1.8	1.3	1.1	1.4	1.8	1.7	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.3	1.3
16 MTFR Share	1.8	1.3	1.1	1.4	1.8	1.7	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.3	1.3
17 NLEC Share	0.8	0.6	0.5	0.7	0.8	0.8	0.6	0.5	0.5	0.4	0.4	0.4	0.6	0.6	0.6
18 PGE Share	48	35	29	39	48	47	35	32	32	22	22	22	38	36	35
19 PPL Share	48	35	29	39	48	47	35	32	32	22	22	22	38	36	35
20 PSE Share	27	20	16	23	28	27	20	19	19	13	13	13	22	21	20
21 RREC Share	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22 SCL Share	12	8.5	7	9.6	12	12	8.5	7.9	7.9	5.4	5.4	5.4	9.3	8.9	8.6
23 SLEC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
24 TPU Share	12	8.5	7	9.6	12	12	8.5	7.9	7.9	5.4	5.4	5.4	9.3	8.9	8.6
25 UNEC Share	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
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27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	17	13	15	20	23	23	18	16	16	2.3	2.3	2.3	9.0	13	14
30 COPD Share	5.5	4.3	4.9	6.4	7.5	7.4	5.8	5.4	5.4	0.8	0.8	0.8	3.0	4.4	4.7
31 CWPC Share	0.4	0.3	0.4	0.5	0.6	0.6	0.4	0.4	0.4	0.1	0.1	0.1	0.2	0.3	0.4
32 EWEB Share	4.6	3.6	4.2	5.5	6.4	6.3	4.9	4.6	4.6	0.6	0.6	0.6	2.5	3.7	4
33 FGRV Share	1.4	1.1	1.3	1.6	1.9	1.9	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.1	1.2
34 FREC Share	0.5	0.4	0.4	0.6	0.6	0.6	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
35 GCPD Share	233	183	210	274	332	328	255	239	239	34	34	34	130	195	207
36 ICLP Share	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
37 KITT Share	0.5	0.4	0.4	0.6	0.6	0.6	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
38 KOOT Share	0.7	0.6	0.6	0.8	1.0	1.0	0.8	0.7	0.7	0.1	0.1	0.1	0.4	0.6	0.6
39 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
40 LVE Share	0.8	0.6	0.7	1.0	1.1	1.1	0.9	0.8	0.8	0.1	0.1	0.1	0.4	0.7	0.7
41 MCMN Share	1.4	1.1	1.3	1.6	1.9	1.9	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.1	1.2
42 MTFR Share	1.4	1.1	1.3	1.6	1.9	1.9	1.5	1.4	1.4	0.2	0.2	0.2	0.8	1.1	1.2
43 NLEC Share	0.6	0.5	0.6	0.7	0.9	0.9	0.7	0.6	0.6	0.1	0.1	0.1	0.3	0.5	0.5
44 PGE Share	38	30	34	44	52	51	40	37	37	5.3	5.3	5.3	20	31	33
45 PPL Share	38	30	34	44	52	51	40	38	38	5.3	5.3	5.3	20	31	33
46 PSE Share	22	17	20	26	30	30	23	22	22	3	3	3	12	18	19
47 RREC Share	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
48 SCL Share	9.3	7.3	8.4	11	13	13	9.8	9.2	9.2	1.3	1.3	1.3	5	7.5	8
49 SLEC Share	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
50 TPU Share	9.3	7.3	8.4	11	13	13	9.8	9.2	9.2	1.3	1.3	1.3	5	7.5	8
51 UNEC Share	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0	0	0	0.1	0.2	0.2
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

Table A-20: Wanapum and Priest Rapids Allocation PNW Loads and Resources Study 2013 - 2014 Operating Year 1937 Water Year 2003 White Book															
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Wanapum-															
1 Wanapum	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
2 Wanapum Before Enc	558	424	357	471	571	562	430	402	402	298	298	298	468	448	433
-Wanapum-															
3 AVWP Share	20	15	12	17	21	20	15	14	14	9.5	9.5	9.5	16	16	15
4 COPD Share	6.7	4.9	4	5.5	6.8	6.7	4.9	4.6	4.6	3.1	3.1	3.1	5.4	5.1	5.0
5 CWPC Share	0.5	0.4	0.3	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.4
6 EWEB Share	5.7	4.1	3.4	4.7	5.8	5.7	4.2	3.9	3.9	2.7	2.7	2.7	4.6	4.4	4.2
7 FGRV Share	1.7	1.2	1	1.4	1.7	1.7	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.3	1.3
8 FREC Share	0.6	0.4	0.3	0.5	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.4	0.4
9 GCPD Share	297	216	178	245	309	303	223	207	207	142	142	142	245	233	224
10 ICLP Share	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11 KITT Share	0.6	0.4	0.3	0.5	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.4	0.4
12 KOOT Share	0.9	0.6	0.5	0.7	0.9	0.9	0.6	0.6	0.6	0.4	0.4	0.4	0.7	0.7	0.6
13 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14 LVE Share	1	0.7	0.6	0.8	1	1	0.7	0.7	0.7	0.5	0.5	0.5	0.8	0.8	0.8
15 MCMN Share	1.7	1.2	1	1.4	1.7	1.7	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.3	1.3
16 MTFR Share	1.7	1.2	1	1.4	1.7	1.7	1.3	1.2	1.2	0.8	0.8	0.8	1.4	1.3	1.3
17 NLEC Share	0.8	0.6	0.5	0.6	0.8	0.8	0.6	0.5	0.5	0.4	0.4	0.4	0.6	0.6	0.6
18 PGE Share	47	34	28	38	47	46	34	32	32	22	22	22	37	36	34
19 PPL Share	47	34	28	38	47	46	34	32	32	22	22	22	38	36	35
20 PSE Share	27	20	16	22	27	27	20	18	18	13	13	13	22	21	20
21 RREC Share	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22 SCL Share	11	8.3	6.9	9.4	12	11	8.4	7.7	7.7	5.3	5.3	5.3	9.2	8.7	8.5
23 SLEC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
24 TPU Share	11	8.3	6.9	9.4	12	11	8.4	7.7	7.7	5.3	5.3	5.3	9.2	8.7	8.5
25 UNEC Share	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
26 Wanapum After Enc	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
-Priest Rapids-															
27 Priest Rapids	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
28 Priest Rapids Before Enc	401	318	362	468	557	550	431	404	404	70	70	70	229	334	353
-Priest Rapids-															
29 AVWP Share	16	13	15	19	23	22	17	16	16	2.3	2.3	2.3	8.8	13	14
30 COPD Share	5.4	4.2	4.8	6.3	7.4	7.3	5.7	5.3	5.3	0.8	0.8	0.8	2.9	4.3	4.6
31 CWPC Share	0.4	0.3	0.4	0.5	0.6	0.5	0.4	0.4	0.4	0.1	0.1	0.1	0.2	0.3	0.3
32 EWEB Share	4.6	3.6	4.1	5.3	6.3	6.2	4.8	4.5	4.5	0.6	0.6	0.6	2.5	3.7	3.9
33 FGRV Share	1.4	1.1	1.2	1.6	1.9	1.9	1.5	1.4	1.4	0.2	0.2	0.2	0.7	1.1	1.2
34 FREC Share	0.5	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
35 GCPD Share	236	185	213	278	336	331	258	241	241	34	34	34	132	197	209
36 ICLP Share	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
37 KITT Share	0.5	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.1	0.1	0.1	0.3	0.4	0.4
38 KOOT Share	0.7	0.5	0.6	0.8	1.0	0.9	0.7	0.7	0.7	0.1	0.1	0.1	0.4	0.6	0.6
39 LREC Share	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
40 LVE Share	0.8	0.6	0.7	1.0	1.1	1.1	0.9	0.8	0.8	0.1	0.1	0.1	0.4	0.7	0.7
41 MCMN Share	1.4	1.1	1.2	1.6	1.9	1.9	1.5	1.4	1.4	0.2	0.2	0.2	0.7	1.1	1.2
42 MTFR Share	1.4	1.1	1.2	1.6	1.9	1.9	1.5	1.4	1.4	0.2	0.2	0.2	0.7	1.1	1.2
43 NLEC Share	0.6	0.5	0.6	0.7	0.9	0.8	0.7	0.6	0.6	0.1	0.1	0.1	0.3	0.5	0.5
44 PGE Share	37	29	33	44	51	51	39	37	37	5.2	5.2	5.2	20	30	32
45 PPL Share	37	29	33	44	51	51	39	37	37	5.2	5.2	5.2	20	30	32
46 PSE Share	21	17	19	25	30	29	23	21	21	3.0	3.0	3.0	12	17	19
47 RREC Share	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
48 SCL Share	9.1	7.1	8.2	11	13	12	9.7	9.1	9.1	1.3	1.3	1.3	4.9	7.4	7.9
49 SLEC Share	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1
50 TPU Share	9.1	7.1	8.2	11	13	12	9.7	9.1	9.1	1.3	1.3	1.3	4.9	7.4	7.9
51 UNEC Share	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0	0	0	0.1	0.2	0.2
52 Priest Rapids After Enc	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2004 - 2005 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2005 - 2006 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2006 - 2007 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2008 - 2009 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2009 - 2010 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2010 - 2011 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2011 - 2012 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resources Study
2013 - 2014 Operating Year
1937 Water Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Swift 1-															
1 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
2 Swift 1 Before Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 1-															
3 COPD Share	8.2	6.9	6.3	8.8	34	19	19	6.7	12	40	3.6	5	40	12	16
4 PPL Share	23	20	18	25	97	55	53	19	33	114	10	14	113	35	46
5 Swift 1 After Enc	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
-Swift 2-															
6 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
7 Swift 2 Before Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
-Swift 2-															
8 COPD Share	2.2	1.9	1.8	2.5	11	6.9	8.2	3.2	5.3	18	1.5	1.8	12	3.5	5.7
9 PPL Share	6.4	5.4	5	7.3	31	20	23	9.1	15	51	4.4	5.2	34	9.9	16
10 Swift 2 After Enc	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22

Table A-22: BPA Power Sale Contracts PNW Loads and Resources Study 2004 - 2005 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	120	120	108	106	122	136	137	131	123	110	110	108	108	115	119
2 Total Federal Entities	120	120	108	106	122	136	137	131	123	110	110	108	108	115	119
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	277	276	274	271	269	266	263	262	262	265	265	265	265	265	267
6 Total Direct Service Industry	277	276	274	271	269	266	263	262	262	265	265	265	265	265	267
-Generating Public Entities-															
7 Generating Public Entities	1731	1731	1895	1925	2290	2581	2622	2601	2382	2147	2141	2030	1763	1733	2142
8 Total Generating Public Entities	1731	1731	1895	1925	2290	2581	2622	2601	2382	2147	2141	2030	1763	1733	2142
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1399	1074	831	1014	1108	1117	915	873	951	903	870	927	1063	1206	1011
10 Total Generating Public Entities (Slice)	1399	1074	831	1014	1108	1117	915	873	951	903	870	927	1063	1206	1011
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	2618	2618	2399	2386	2678	3076	3175	3035	2765	2602	2597	2540	2600	2717	2716
12 Total Non-Generating Public Entities	2618	2618	2399	2386	2678	3076	3175	3035	2765	2602	2597	2540	2600	2717	2716
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	840	645	499	609	665	670	549	524	571	542	523	556	638	724	607
14 Total Non-Generating Public Entities (Slice)	840	645	499	609	665	670	549	524	571	542	523	556	638	724	607
-Investor-Owned Entities-															
15 Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
16 Total Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	120	120	108	106	122	136	137	131	123	110	110	108	108	115	119
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	277	276	274	271	269	266	263	262	262	265	265	265	265	265	267
22 Generating Public Entities	3130	2805	2726	2940	3398	3697	3537	3474	3333	3051	3012	2956	2827	2938	3152
23 Non-Generating Public Entities	3458	3262	2897	2995	3343	3746	3724	3559	3336	3145	3120	3096	3238	3441	3322
24 Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7675	7120	6553	6822	7514	8228	8043	7809	7459	7205	7203	7075	7118	7473	7391

Table A-22: BPA Power Sale Contracts PNW Loads and Resources Study 2005 - 2006 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	120	120	109	106	122	137	137	132	123	111	111	108	109	116	119
2 Total Federal Entities	120	120	109	106	122	137	137	132	123	111	111	108	109	116	119
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	265	265	265	272	272	272	272	272	272	272	272	272	272	272	271
6 Total Direct Service Industry	265	265	265	272	272	272	272	272	272	272	272	272	272	272	271
-Generating Public Entities-															
7 Generating Public Entities	1723	1723	1897	1935	2299	2585	2626	2580	2388	2101	2095	1980	1715	1685	2126
8 Total Generating Public Entities	1723	1723	1897	1935	2299	2585	2626	2580	2388	2101	2095	1980	1715	1685	2126
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1410	1084	840	1021	1116	1124	921	879	957	909	875	1015	1188	1210	1034
10 Total Generating Public Entities (Slice)	1410	1084	840	1021	1116	1124	921	879	957	909	875	1015	1188	1210	1034
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	2654	2654	2432	2416	2712	3116	3223	3082	2808	2644	2637	2580	2640	2759	2755
12 Total Non-Generating Public Entities	2654	2654	2432	2416	2712	3116	3223	3082	2808	2644	2637	2580	2640	2759	2755
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	846	651	504	613	670	675	553	528	574	546	526	609	713	726	621
14 Total Non-Generating Public Entities (Slice)	846	651	504	613	670	675	553	528	574	546	526	609	713	726	621
-Investor-Owned Entities-															
15 Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
16 Total Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	120	120	109	106	122	137	137	132	123	111	111	108	109	116	119
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	265	265	265	272	272	272	272	272	272	272	272	272	272	272	271
22 Generating Public Entities	3133	2807	2737	2956	3415	3709	3547	3459	3344	3010	2970	2995	2903	2895	3160
23 Non-Generating Public Entities	3500	3304	2936	3029	3382	3791	3777	3609	3382	3190	3163	3190	3354	3485	3376
24 Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7709	7154	6595	6875	7573	8290	8115	7855	7527	7217	7213	7215	7317	7482	7458

Table A-22: BPA Power Sale Contracts PNW Loads and Resources Study 2006 - 2007 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	121	121	109	107	123	137	138	132	124	111	111	109	109	116	120
2 Total Federal Entities	121	121	109	107	123	137	138	132	124	111	111	109	109	116	120
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	272	272	272	0	0	0	0	0	0	0	0	0	0	0	45
6 Total Direct Service Industry	272	272	272	0	0	0	0	0	0	0	0	0	0	0	45
-Generating Public Entities-															
7 Generating Public Entities	1686	1686	1860	2273	2651	2970	2984	2929	2710	2349	2342	2151	1877	1971	2367
8 Total Generating Public Entities	1686	1686	1860	2273	2651	2970	2984	2929	2710	2349	2342	2151	1877	1971	2367
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1417	1091	846	1025	1120	1129	925	882	960	914	879	921	1088	1215	1022
10 Total Generating Public Entities (Slice)	1417	1091	846	1025	1120	1129	925	882	960	914	879	921	1088	1215	1022
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	2695	2695	2480	2580	2906	3270	3419	3274	2967	2817	2809	2772	2856	2972	2917
12 Total Non-Generating Public Entities	2695	2695	2480	2580	2906	3270	3419	3274	2967	2817	2809	2772	2856	2972	2917
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	851	655	508	615	673	678	556	530	577	549	528	553	653	730	614
14 Total Non-Generating Public Entities (Slice)	851	655	508	615	673	678	556	530	577	549	528	553	653	730	614
-Investor-Owned Entities-															
15 Investor-Owned Entities	382	382	382	0	0	0	0	0	0	0	0	0	0	0	64
16 Total Investor-Owned Entities	382	382	382	0	0	0	0	0	0	0	0	0	0	0	64
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	121	121	109	107	123	137	138	132	124	111	111	109	109	116	120
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	272	272	272	0	0	0	0	0	0	0	0	0	0	0	45
22 Generating Public Entities	3103	2776	2706	3298	3771	4098	3910	3812	3670	3262	3221	3073	2965	3186	3389
23 Non-Generating Public Entities	3546	3350	2988	3195	3579	3948	3975	3803	3544	3365	3336	3325	3509	3701	3530
24 Investor-Owned Entities	382	382	382	0	0	0	0	0	0	0	0	0	0	0	64
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7732	7176	6624	6730	7473	8184	8022	7749	7360	6991	6984	6774	6881	7335	7298

Table A-22: BPA Power Sale Contracts PNW Loads and Resources Study 2007 - 2008 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	122	122	110	107	123	138	139	133	124	112	112	109	110	117	120
2 Total Federal Entities	122	122	110	107	123	138	139	133	124	112	112	109	110	117	120
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
7 Generating Public Entities	2039	2039	2180	2282	2663	2983	2997	2923	2723	2357	2350	2161	1887	1979	2431
8 Total Generating Public Entities	2039	2039	2180	2282	2663	2983	2997	2923	2723	2357	2350	2161	1887	1979	2431
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1425	1097	850	1030	1127	1136	930	887	964	918	883	1021	1198	1222	1044
10 Total Generating Public Entities (Slice)	1425	1097	850	1030	1127	1136	930	887	964	918	883	1021	1198	1222	1044
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	2924	2924	2649	2607	2937	3306	3457	3275	3000	2847	2839	2802	2886	3003	2974
12 Total Non-Generating Public Entities	2924	2924	2649	2607	2937	3306	3457	3275	3000	2847	2839	2802	2886	3003	2974
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	855	658	511	619	677	682	559	533	579	551	530	613	719	734	627
14 Total Non-Generating Public Entities (Slice)	855	658	511	619	677	682	559	533	579	551	530	613	719	734	627
-Investor-Owned Entities-															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	122	122	110	107	123	138	139	133	124	112	112	109	110	117	120
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3464	3135	3030	3313	3790	4119	3928	3810	3687	3275	3233	3182	3085	3201	3475
23 Non-Generating Public Entities	3780	3583	3159	3226	3614	3988	4015	3808	3579	3398	3369	3415	3605	3737	3601
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7674	7115	6466	6775	7528	8245	8081	7752	7414	7036	7029	6975	7098	7387	7346

Table A-22: BPA Power Sale Contracts PNW Loads and Resources Study 2008 - 2009 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	122	122	110	108	124	139	139	134	125	112	112	110	110	117	121
2 Total Federal Entities	122	122	110	108	124	139	139	134	125	112	112	110	110	117	121
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
7 Generating Public Entities	2049	2049	2188	2292	2675	2994	3011	2954	2734	2367	2360	2172	1894	1987	2443
8 Total Generating Public Entities	2049	2049	2188	2292	2675	2994	3011	2954	2734	2367	2360	2172	1894	1987	2443
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1428	1099	853	1033	1130	1139	933	889	967	920	885	926	1095	1225	1030
10 Total Generating Public Entities (Slice)	1428	1099	853	1033	1130	1139	933	889	967	920	885	926	1095	1225	1030
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	2955	2955	2677	2634	2969	3343	3494	3348	3034	2878	2871	2832	2916	3034	3009
12 Total Non-Generating Public Entities	2955	2955	2677	2634	2969	3343	3494	3348	3034	2878	2871	2832	2916	3034	3009
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	858	660	512	620	679	684	560	534	581	553	531	556	657	736	618
14 Total Non-Generating Public Entities (Slice)	858	660	512	620	679	684	560	534	581	553	531	556	657	736	618
-Investor-Owned Entities-															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	122	122	110	108	124	139	139	134	125	112	112	110	110	117	121
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3477	3148	3041	3325	3805	4133	3943	3844	3701	3287	3245	3097	2989	3212	3472
23 Non-Generating Public Entities	3812	3615	3189	3255	3647	4026	4054	3882	3614	3431	3402	3388	3574	3770	3627
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7720	7160	6506	6816	7577	8297	8137	7860	7463	7083	7074	6863	6971	7431	7370

Table A-22: BPA Power Sale Contracts PNW Loads and Resources Study 2009 - 2010 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	123	123	111	108	124	139	140	134	125	113	112	110	111	118	121
2 Total Federal Entities	123	123	111	108	124	139	140	134	125	113	112	110	111	118	121
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
7 Generating Public Entities	2057	2057	2197	2303	2687	3007	3026	2966	2745	2378	2371	2182	1903	1996	2454
8 Total Generating Public Entities	2057	2057	2197	2303	2687	3007	3026	2966	2745	2378	2371	2182	1903	1996	2454
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1432	1103	855	1035	1133	1142	935	892	969	923	887	1025	1203	1229	1049
10 Total Generating Public Entities (Slice)	1432	1103	855	1035	1133	1142	935	892	969	923	887	1025	1203	1229	1049
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	2985	2985	2706	2664	3002	3381	3540	3388	3071	2914	2905	2866	2950	3069	3044
12 Total Non-Generating Public Entities	2985	2985	2706	2664	3002	3381	3540	3388	3071	2914	2905	2866	2950	3069	3044
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	860	662	513	622	680	685	562	535	582	554	533	616	722	738	630
14 Total Non-Generating Public Entities (Slice)	860	662	513	622	680	685	562	535	582	554	533	616	722	738	630
-Investor-Owned Entities-															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	123	123	111	108	124	139	140	134	125	113	112	110	111	118	121
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3489	3160	3052	3338	3820	4149	3961	3858	3714	3301	3258	3207	3106	3225	3503
23 Non-Generating Public Entities	3845	3647	3219	3285	3682	4066	4102	3923	3653	3468	3438	3481	3672	3807	3674
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7767	7205	6548	6861	7627	8354	8202	7916	7515	7134	7124	7066	7187	7482	7448

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2010 - 2011 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal Entities-															
1 Federal Entities	124	124	112	109	125	140	140	135	126	113	113	111	111	119	122
2 Total Federal Entities	124	124	112	109	125	140	140	135	126	113	113	111	111	119	122
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
7 Generating Public Entities	2065	2065	2205	2313	2696	3019	3039	2978	2756	2387	2381	2191	1911	2004	2463
8 Total Generating Public Entities	2065	2065	2205	2313	2696	3019	3039	2978	2756	2387	2381	2191	1911	2004	2463
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1435	1105	856	1037	1135	1144	937	893	971	925	888	929	1100	1232	1034
10 Total Generating Public Entities (Slice)	1435	1105	856	1037	1135	1144	937	893	971	925	888	929	1100	1232	1034
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	3020	3020	2739	2696	3038	3421	3578	3424	3103	2944	2936	2896	2980	3101	3078
12 Total Non-Generating Public Entities	3020	3020	2739	2696	3038	3421	3578	3424	3103	2944	2936	2896	2980	3101	3078
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	862	663	514	623	682	687	563	536	583	555	533	558	660	739	621
14 Total Non-Generating Public Entities (Slice)	862	663	514	623	682	687	563	536	583	555	533	558	660	739	621
-Investor-Owned Entities-															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	124	124	112	109	125	140	140	135	126	113	113	111	111	119	122
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3500	3170	3061	3350	3832	4163	3976	3871	3727	3313	3269	3120	3010	3236	3498
23 Non-Generating Public Entities	3882	3684	3253	3318	3719	4108	4140	3960	3687	3499	3469	3453	3640	3840	3699
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7815	7252	6592	6906	7676	8411	8257	7967	7562	7177	7166	6952	7060	7527	7468

Table A-22: BPA Power Sale Contracts PNW Loads and Resources Study 2011 - 2012 Operating Year 1937 Water Year 2003 White Book															3/31/2004
Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	124	124	112	105	124	136	139	130	122	110	110	107	108	111	119
2 Total Federal Entities	124	124	112	105	124	136	139	130	122	110	110	107	108	111	119
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
7 Generating Public Entities	2072	2072	2213	2352	2754	3086	3087	2940	2800	2426	2419	2229	1948	2030	2494
8 Total Generating Public Entities	2072	2072	2213	2352	2754	3086	3087	2940	2800	2426	2419	2229	1948	2030	2494
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1437	1107	858	1039	1137	1146	938	895	973	927	889	1028	1206	1234	1053
10 Total Generating Public Entities (Slice)	1437	1107	858	1039	1137	1146	938	895	973	927	889	1028	1206	1234	1053
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	3047	3047	2763	2745	3099	3498	3567	3403	3106	2942	2934	2913	3023	3141	3103
12 Total Non-Generating Public Entities	3047	3047	2763	2745	3099	3498	3567	3403	3106	2942	2934	2913	3023	3141	3103
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	863	664	515	624	683	688	563	537	584	556	534	617	724	741	632
14 Total Non-Generating Public Entities (Slice)	863	664	515	624	683	688	563	537	584	556	534	617	724	741	632
-Investor-Owned Entities-															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	124	124	112	105	124	136	139	130	122	110	110	107	108	111	119
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3509	3179	3070	3390	3891	4232	4026	3835	3773	3353	3309	3257	3155	3263	3547
23 Non-Generating Public Entities	3910	3712	3278	3369	3781	4186	4130	3940	3690	3499	3468	3530	3747	3881	3735
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7852	7289	6626	6993	7797	8554	8295	7905	7607	7214	7201	7161	7308	7588	7551

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal Entities-															
1 Federal Entities	114	114	105	106	125	137	139	133	122	110	110	107	108	111	118
2 Total Federal Entities	114	114	105	106	125	137	139	133	122	110	110	107	108	111	118
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
7 Generating Public Entities	2092	2092	2232	2356	2760	3092	3094	3048	2806	2432	2425	2235	1954	2035	2511
8 Total Generating Public Entities	2092	2092	2232	2356	2760	3092	3094	3048	2806	2432	2425	2235	1954	2035	2511
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1440	1109	859	1041	1139	1148	940	896	975	929	891	931	1103	1236	1038
10 Total Generating Public Entities (Slice)	1440	1109	859	1041	1139	1148	940	896	975	929	891	931	1103	1236	1038
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	3092	3092	2790	2761	3118	3518	3603	3492	3137	2972	2964	2942	3052	3172	3137
12 Total Non-Generating Public Entities	3092	3092	2790	2761	3118	3518	3603	3492	3137	2972	2964	2942	3052	3172	3137
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	864	666	516	625	684	689	565	538	585	558	535	559	662	742	623
14 Total Non-Generating Public Entities (Slice)	864	666	516	625	684	689	565	538	585	558	535	559	662	742	623
-Investor-Owned Entities-															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	114	114	105	106	125	137	139	133	122	110	110	107	108	111	118
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3532	3201	3091	3397	3899	4240	4035	3945	3781	3361	3316	3167	3057	3272	3549
23 Non-Generating Public Entities	3956	3757	3306	3386	3802	4208	4168	4030	3723	3530	3499	3502	3714	3914	3760
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7911	7347	6668	7018	7826	8585	8341	8109	7648	7253	7240	7043	7177	7629	7577

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2013 - 2014 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal Entities-															
1 Federal Entities	114	114	105	107	126	137	139	134	122	110	110	107	108	112	118
2 Total Federal Entities	114	114	105	107	126	137	139	134	122	110	110	107	108	112	118
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
4 Total U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
-Direct Service Industry-															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-															
7 Generating Public Entities	2098	2098	2238	2363	2767	3099	3102	3056	2813	2439	2432	2241	1960	2041	2518
8 Total Generating Public Entities	2098	2098	2238	2363	2767	3099	3102	3056	2813	2439	2432	2241	1960	2041	2518
-Generating Public Entities (Slice)-															
9 Generating Public Entities (Slice)	1442	1110	860	1042	1141	1150	942	898	976	930	892	1030	1209	1238	1056
10 Total Generating Public Entities (Slice)	1442	1110	860	1042	1141	1150	942	898	976	930	892	1030	1209	1238	1056
-Non-Generating Public Entities-															
11 Non-Generating Public Entities	3122	3122	2819	2789	3151	3555	3640	3527	3171	3002	2994	2971	3082	3202	3169
12 Total Non-Generating Public Entities	3122	3122	2819	2789	3151	3555	3640	3527	3171	3002	2994	2971	3082	3202	3169
-Non-Generating Public Entities (Slice)-															
13 Non-Generating Public Entities (Slice)	866	667	517	626	685	690	565	539	586	559	536	618	726	744	634
14 Total Non-Generating Public Entities (Slice)	866	667	517	626	685	690	565	539	586	559	536	618	726	744	634
-Investor-Owned Entities-															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
19 Federal Entities	114	114	105	107	126	137	139	134	122	110	110	107	108	112	118
20 U.S. Bureau of Reclamation	309	275	166	129	0	0	0	1.0	23	252	315	268	298	332	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3540	3208	3098	3405	3907	4249	4043	3953	3789	3369	3324	3271	3169	3279	3574
23 Non-Generating Public Entities	3987	3788	3335	3414	3835	4246	4205	4066	3757	3561	3530	3589	3808	3946	3803
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	7950	7386	6704	7055	7869	8632	8387	8154	7691	7292	7279	7236	7384	7669	7644

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2004 - 2005 Operating Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
2 Total Federal Entities	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	9.1	9.1	9	9.7	11	11	12	11	9.9	9.5	9.5	9.5	9.4	8.9	10
6 Total Non-Generating Public Entities	9.1	9.1	9	9.7	11	11	12	11	9.9	9.5	9.5	9.5	9.4	8.9	10
-Investor-Owned Entities-															
7 Investor-Owned Entities	908	907	899	872	885	876	853	875	887	916	916	621	972	946	876
8 Total Investor-owned Entities	908	907	899	872	885	876	853	875	887	916	916	621	972	946	876
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
12 Public Entities	317	317	235	180	156	149	157	150	161	284	284	375	391	353	242
13 Investor-Owned Entities	908	907	899	872	885	876	853	875	887	916	916	621	972	946	876
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1392	1390	1265	1213	1232	1212	1204	1206	1223	1402	1402	1192	1550	1459	1296

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2005 - 2006 Operating Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
2 Total Federal Entities	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	9.1	9.1	9	9.7	11	11	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	6.8
6 Total Non-Generating Public Entities	9.1	9.1	9	9.7	11	11	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	6.8
-Investor-Owned Entities-															
7 Investor-Owned Entities	908	908	899	872	885	876	852	873	886	916	916	620	972	946	876
8 Total Investor-owned Entities	908	908	899	872	885	876	852	873	886	916	916	620	972	946	876
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
12 Public Entities	317	317	235	180	156	149	152	144	156	278	278	370	386	348	239
13 Investor-Owned Entities	908	908	899	872	885	876	852	873	886	916	916	620	972	946	876
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1392	1391	1266	1213	1232	1213	1198	1199	1216	1397	1396	1187	1544	1454	1292

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2006 - 2007 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal Entities-															
1 Federal Entities	59	59	52	116	127	127	130	125	119	121	121	118	120	109	110
2 Total Federal Entities	59	59	52	116	127	127	130	125	119	121	121	118	120	109	110
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	4.4
6 Total Non-Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	4.4
-Investor-Owned Entities-															
7 Investor-Owned Entities	913	913	904	877	891	881	857	878	891	921	919	805	985	951	896
8 Total Investor-owned Entities	913	913	904	877	891	881	857	878	891	921	919	805	985	951	896
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	59	59	52	116	127	127	130	125	119	121	121	118	120	109	110
12 Public Entities	312	312	229	174	150	143	152	144	156	278	278	370	386	348	237
13 Investor-Owned Entities	913	913	904	877	891	881	857	878	891	921	919	805	985	951	896
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1368	1368	1259	1252	1258	1235	1226	1231	1249	1409	1408	1382	1583	1493	1329

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
2 Total Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	4.4
6 Total Non-Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	4.4
-Investor-Owned Entities-															
7 Investor-Owned Entities	913	914	905	878	891	882	858	880	892	921	919	805	977	950	896
8 Total Investor-owned Entities	913	914	905	878	891	882	858	880	892	921	919	805	977	950	896
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
12 Public Entities	312	312	229	174	150	143	152	144	156	278	278	370	386	348	237
13 Investor-Owned Entities	913	914	905	878	891	882	858	880	892	921	919	805	977	950	896
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1418	1418	1309	1253	1259	1235	1226	1232	1250	1409	1408	1383	1575	1491	1337

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2008 - 2009 Operating Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
2 Total Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	4.4
6 Total Non-Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	4.4
-Investor-Owned Entities-															
7 Investor-Owned Entities	913	914	905	878	892	882	858	880	892	921	921	806	978	950	896
8 Total Investor-owned Entities	913	914	905	878	892	882	858	880	892	921	921	806	978	950	896
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
12 Public Entities	312	312	229	174	150	143	152	144	156	278	278	370	386	348	237
13 Investor-Owned Entities	913	914	905	878	892	882	858	880	892	921	921	806	978	950	896
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1417	1419	1309	1253	1259	1236	1227	1232	1250	1409	1409	1383	1575	1492	1337

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2009 - 2010 Operating Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
2 Total Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.3
6 Total Non-Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.3
-Investor-Owned Entities-															
7 Investor-Owned Entities	913	914	904	877	892	882	859	880	893	922	921	806	985	951	897
8 Total Investor-owned Entities	913	914	904	877	892	882	859	880	893	922	921	806	985	951	897
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
12 Public Entities	312	312	229	174	150	143	151	144	155	278	278	370	385	347	237
13 Investor-Owned Entities	913	914	904	877	892	882	859	880	893	922	921	806	985	951	897
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1417	1418	1308	1252	1259	1236	1227	1232	1250	1410	1409	1383	1583	1493	1338

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal Entities-															
1 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
2 Total Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
6 Total Non-Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
-Investor-Owned Entities-															
7 Investor-Owned Entities	914	914	904	877	899	888	865	888	900	928	927	807	978	951	900
8 Total Investor-owned Entities	914	914	904	877	899	888	865	888	900	928	927	807	978	951	900
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
12 Public Entities	311	311	229	174	150	143	151	144	155	278	278	370	385	347	237
13 Investor-Owned Entities	914	914	904	877	899	888	865	888	900	928	927	807	978	951	900
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1418	1418	1308	1253	1266	1241	1233	1240	1258	1416	1416	1384	1576	1493	1340

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2011 - 2012 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal Entities-															
1 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
2 Total Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
6 Total Non-Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
-Investor-Owned Entities-															
7 Investor-Owned Entities	914	914	905	878	899	888	866	888	899	927	928	807	979	952	900
8 Total Investor-owned Entities	914	914	905	878	899	888	866	888	899	927	928	807	979	952	900
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
12 Public Entities	311	311	229	174	150	143	151	144	155	278	278	370	385	347	237
13 Investor-Owned Entities	914	914	905	878	899	888	866	888	899	927	928	807	979	952	900
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1418	1418	1309	1253	1266	1241	1234	1240	1256	1416	1416	1384	1576	1493	1340

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Federal Entities-															
1 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
2 Total Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
6 Total Non-Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
-Investor-Owned Entities-															
7 Investor-Owned Entities	915	915	905	878	899	890	866	888	899	928	928	805	986	952	901
8 Total Investor-owned Entities	915	915	905	878	899	890	866	888	899	928	928	805	986	952	901
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
12 Public Entities	311	311	229	174	150	143	151	144	155	278	278	370	385	347	237
13 Investor-Owned Entities	915	915	905	878	899	890	866	888	899	928	928	805	986	952	901
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1419	1419	1309	1253	1266	1243	1234	1240	1257	1416	1416	1383	1583	1494	1341

Table A-23: Regional Non Utility Generating Resources By Owner
PNW Loads and Resources Study
2013 - 2014 Operating Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal Entities-															
1 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
2 Total Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
-Generating Public Entities-															
3 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
4 Total Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
-Non-Generating Public Entities-															
5 Non-Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
6 Total Non-Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
-Investor-Owned Entities-															
7 Investor-Owned Entities	914	915	906	879	900	890	867	888	901	929	928	806	979	952	901
8 Total Investor-owned Entities	914	915	906	879	900	890	867	888	901	929	928	806	979	952	901
-Other Entities-															
9 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
10 Total Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
-Total Non-Utility Generating Resources-															
11 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
12 Public Entities	311	311	229	174	150	143	151	144	155	278	278	370	385	347	237
13 Investor-Owned Entities	914	915	906	879	900	890	867	888	901	929	928	806	979	952	901
14 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
15 Total Non-Utility Generation	1419	1419	1309	1254	1267	1243	1235	1241	1258	1417	1416	1383	1576	1493	1341

**Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2004 - 2005 Operating Year
2003 White Book**

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
201 Minnesota Methane (AVWP)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
202 Montana One (NWE)	9.1	9.3	8.6	8.7	6.6	7.3	7.6	7.2	6.3	6.1	6.0	8.5	8.5	8.3	7.7
203 Pocatello Waste (IPC)	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.1
204 Spokane MSW (PSE)	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
205 West Boise Waste (IPC)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
206 IOU - Total NUG: Small Thermal & Misc.	35	35	34	34	32	33	33	33	32	32	32	34	34	34	33
-NUG: Combustion Turbines -															
207 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
208 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
209 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
210 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
211 Tenaska Gas Cogen (PSE)	235	235	235	235	235	235	235	235	235	235	235	0	235	235	215
212 IOU - Total NUG: Combustion Turbines	503	503	503	503	503	503	503	503	503	503	503	164	503	503	475
-NUG: Co-Generation-															
213 Billings Generation (NWE)	17	17	16	10	12	13	14	13	11	7.1	6.9	16	16	15	13
214 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
215 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
216 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
217 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
218 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
219 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
220 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
221 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
222 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
223 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
224 TASCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
225 TASCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
226 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
227 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
228 IOU - Total NUG: Co-Generation	207	207	222	214	218	214	200	215	211	198	198	202	206	207	209
-NUG: Renewables-															
229 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
230 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Josef Staufer (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
232 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
233 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
235 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
236 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
237 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
238 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
239 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
240 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
241 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
242 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
243 Federal Entities	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
244 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
245 Non Generating Public Entities	9.1	9.1	9	9.7	11	11	12	11	9.9	9.5	9.5	9.5	9.4	8.9	10
246 Investor-Owned Entities	908	907	899	872	885	876	853	875	887	916	916	621	972	946	876
247 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
248 Total Non-Utility Generation	1392	1390	1265	1213	1232	1212	1204	1206	1223	1402	1402	1192	1550	1459	1296

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2005 - 2006 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
201 Minnesota Methane (AVWP)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
202 Montana One (NWE)	9.2	9.4	8.7	8.8	6.6	7.4	7.5	7.2	6.2	6	5.9	8.5	8.5	8.2	7.7
203 Pocatello Waste (IPC)	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.1
204 Spokane MSW (PSE)	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
205 West Boise Waste (IPC)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
206 IOU - Total NUG: Small Thermal & Misc.	35	35	34	34	32	33	33	33	32	32	32	34	34	34	33
-NUG: Combustion Turbines -															
207 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
208 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
209 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
210 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
211 Tenaska Gas Cogen (PSE)	235	235	235	235	235	235	235	235	235	235	235	0	235	235	215
212 IOU - Total NUG: Combustion Turbines	503	503	503	503	503	503	503	503	503	503	503	164	503	503	475
-NUG: Co-Generation-															
213 Billings Generation (NWE)	17	17	16	10	12	14	14	13	11	7	6.9	16	16	15	13
214 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
215 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
216 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
217 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
218 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
219 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
220 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
221 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
222 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
223 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
224 TASCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
225 TASCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
226 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
227 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
228 IOU - Total NUG: Co-Generation	207	207	222	214	218	214	200	215	211	198	198	202	206	206	209
-NUG: Renewables-															
229 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
230 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Josef Staufer (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
232 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
233 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
235 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
236 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
237 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
238 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
239 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
240 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
241 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
242 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
243 Federal Entities	83	81	58	76	101	104	107	98	91	113	113	107	94	75	92
244 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
245 Non Generating Public Entities	9.1	9.1	9	9.7	11	11	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	6.8
246 Investor-Owned Entities	908	908	899	872	885	876	852	873	886	916	916	620	972	946	876
247 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
248 Total Non-Utility Generation	1392	1391	1266	1213	1232	1213	1198	1199	1216	1397	1396	1187	1544	1454	1292

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2006 - 2007 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-NUG: Combustion Turbines -															
204 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
205 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
206 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
207 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
208 Tenaska Gas Cogen (PSE)	240	240	240	240	240	240	240	240	240	240	240	180	240	240	235
209 IOU - Total NUG: Combustion Turbines	508	508	508	508	508	508	508	508	508	508	508	344	508	508	494
-NUG: Co-Generation-															
210 Billings Generation (NWE)	17	17	16	10	12	13	14	13	12	7.1	7.0	19	20	15	14
211 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
212 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
213 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
214 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
215 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
216 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
217 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
218 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
219 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
220 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
221 TESCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
222 TESCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
224 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
225 IOU - Total NUG: Co-Generation	207	207	222	214	218	214	200	215	211	198	198	205	210	207	210
-NUG: Renewables-															
226 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
227 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228 Josef Staufer (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
232 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
233 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
235 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
236 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
237 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
238 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
239 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
240 Federal Entities	59	59	52	116	127	127	130	125	119	121	121	118	120	109	110
241 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
242 Non Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	4.4
243 Investor-Owned Entities	913	913	904	877	891	881	857	878	891	921	919	805	985	951	896
244 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
245 Total Non-Utility Generation	1368	1368	1259	1252	1258	1235	1226	1231	1249	1409	1408	1382	1583	1493	1329

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2007 - 2008 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-NUG: Combustion Turbines -															
204 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
205 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
206 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
207 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
208 Tenaska Gas Cogen (PSE)	240	240	240	240	240	240	240	240	240	240	240	180	240	240	235
209 IOU - Total NUG: Combustion Turbines	508	508	508	508	508	508	508	508	508	508	508	344	508	508	494
-NUG: Co-Generation-															
210 Billings Generation (NWE)	17	17	16	10	12	14	14	13	12	7.2	7	19	16	15	14
211 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
212 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
213 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
214 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
215 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
216 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
217 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
218 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
219 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
220 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
221 TESCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
222 TESCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
224 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
225 IOU - Total NUG: Co-Generation	207	207	222	214	218	214	200	215	211	198	198	205	206	207	210
-NUG: Renewables-															
226 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
227 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228 Josef Staufner (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
232 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
233 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
235 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
236 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
237 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
238 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
239 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
240 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
241 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
242 Non Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	4.4
243 Investor-Owned Entities	913	914	905	878	891	882	858	880	892	921	919	805	977	950	896
244 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
245 Total Non-Utility Generation	1418	1418	1309	1253	1259	1235	1226	1232	1250	1409	1408	1383	1575	1491	1337

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2008 - 2009 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-NUG: Combustion Turbines -															
204 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
205 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
206 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
207 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
208 Tenaska Gas Cogen (PSE)	240	240	240	240	240	240	240	240	240	240	240	180	240	240	235
209 IOU - Total NUG: Combustion Turbines	508	508	508	508	508	508	508	508	508	508	508	344	508	508	494
-NUG: Co-Generation-															
210 Billings Generation (NWE)	17	17	16	10	12	14	14	14	12	7.2	7.1	19	16	15	14
211 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
212 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
213 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
214 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
215 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
216 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
217 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
218 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
219 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
220 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
221 TESCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
222 TESCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
224 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
225 IOU - Total NUG: Co-Generation	207	207	222	214	218	214	200	215	211	198	198	205	206	207	210
-NUG: Renewables-															
226 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
227 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228 Josef Staufner (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
232 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
233 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
235 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
236 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
237 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
238 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
239 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
240 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
241 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
242 Non Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	6.1	5.4	4.2	3.9	3.9	3.9	3.8	3.3	4.4
243 Investor-Owned Entities	913	914	905	878	892	882	858	880	892	921	921	806	978	950	896
244 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
245 Total Non-Utility Generation	1417	1419	1309	1253	1259	1236	1227	1232	1250	1409	1409	1383	1575	1492	1337

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2009 - 2010 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-NUG: Combustion Turbines -															
204 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
205 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
206 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
207 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
208 Tenaska Gas Cogen (PSE)	240	240	240	240	240	240	240	240	240	240	240	180	240	240	235
209 IOU - Total NUG: Combustion Turbines	508	508	508	508	508	508	508	508	508	508	508	344	508	508	494
-NUG: Co-Generation-															
210 Billings Generation (NWE)	17	17	16	11	12	14	14	14	12	7.3	7.2	19	20	16	14
211 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
212 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
213 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
214 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
215 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
216 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
217 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
218 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
219 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
220 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
221 TESCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
222 TESCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
224 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
225 IOU - Total NUG: Co-Generation	207	207	222	214	218	215	200	215	211	198	198	205	210	207	210
-NUG: Renewables-															
226 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
227 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228 Josef Staufner (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
232 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
233 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
235 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
236 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
237 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
238 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
239 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
240 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
241 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
242 Non Generating Public Entities	3.4	3.4	3.4	4.1	5.7	5.8	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.3
243 Investor-Owned Entities	913	914	904	877	892	882	859	880	893	922	921	806	985	951	897
244 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
245 Total Non-Utility Generation	1417	1418	1308	1252	1259	1236	1227	1232	1250	1410	1409	1383	1583	1493	1338

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2010 - 2011 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-NUG: Combustion Turbines -															
204 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
205 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
206 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
207 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
208 Tenaska Gas Cogen (PSE)	240	240	240	240	240	240	240	240	240	240	240	180	240	240	235
209 IOU - Total NUG: Combustion Turbines	508	508	508	508	508	508	508	508	508	508	508	344	508	508	494
-NUG: Co-Generation-															
210 Billings Generation (NWE)	17	18	16	11	17	18	19	18	16	10	10	19	16	16	16
211 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
212 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
213 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
214 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
215 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
216 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
217 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
218 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
219 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
220 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
221 TESCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
222 TESCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
224 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
225 IOU - Total NUG: Co-Generation	207	207	222	214	222	219	204	220	216	201	201	205	206	207	212
-NUG: Renewables-															
226 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
227 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228 Josef Staufner (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
232 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
233 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
235 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
236 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
237 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
238 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
239 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
240 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
241 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
242 Non Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
243 Investor-Owned Entities	914	914	904	877	899	888	865	888	900	928	927	807	978	951	900
244 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
245 Total Non-Utility Generation	1418	1418	1308	1253	1266	1241	1233	1240	1258	1416	1416	1384	1576	1493	1340

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2011 - 2012 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-NUG: Combustion Turbines -															
204 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
205 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
206 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
207 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
208 Tenaska Gas Cogen (PSE)	240	240	240	240	240	240	240	240	240	240	240	180	240	240	235
209 IOU - Total NUG: Combustion Turbines	508	508	508	508	508	508	508	508	508	508	508	344	508	508	494
-NUG: Co-Generation-															
210 Billings Generation (NWE)	17	18	16	11	17	18	19	18	16	10	10	19	16	16	16
211 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
212 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
213 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
214 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
215 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
216 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
217 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
218 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
219 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
220 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
221 TESCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
222 TESCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
224 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
225 IOU - Total NUG: Co-Generation	207	208	223	214	222	219	205	220	216	201	201	206	206	207	212
-NUG: Renewables-															
226 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
227 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228 Josef Staufner (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
232 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
233 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
235 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
236 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
237 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
238 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
239 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
240 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
241 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
242 Non Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
243 Investor-Owned Entities	914	914	905	878	899	888	866	888	899	927	928	807	979	952	900
244 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
245 Total Non-Utility Generation	1418	1418	1309	1253	1266	1241	1234	1240	1256	1416	1416	1384	1576	1493	1340

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2012 - 2013 Operating Year
2003 White Book

Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-NUG: Combustion Turbines -															
204 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
205 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
206 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
207 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
208 Tenaska Gas Cogen (PSE)	240	240	240	240	240	240	240	240	240	240	240	180	240	240	235
209 IOU - Total NUG: Combustion Turbines	508	508	508	508	508	508	508	508	508	508	508	344	508	508	494
-NUG: Co-Generation-															
210 Billings Generation (NWE)	17	18	16	11	17	18	19	19	17	11	10	19	21	16	17
211 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
212 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
213 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
214 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
215 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
216 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
217 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
218 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
219 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
220 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
221 TESCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
222 TESCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
224 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
225 IOU - Total NUG: Co-Generation	207	208	223	214	222	219	205	220	216	201	201	206	211	207	213
-NUG: Renewables-															
226 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
227 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228 Josef Staufner (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
232 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
233 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
235 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
236 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
237 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
238 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
239 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
240 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
241 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
242 Non Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
243 Investor-Owned Entities	915	915	905	878	899	890	866	888	899	928	928	805	986	952	901
244 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
245 Total Non-Utility Generation	1419	1419	1309	1253	1266	1243	1234	1240	1257	1416	1416	1383	1583	1494	1341

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
2013 - 2014 Operating Year
2003 White Book

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Federal Entities															
-NUG: Hydro-															
1 Clearwater - State of ID DWR (BPA)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 Dworshak Small Hydropower (BPA)	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
3 Federal -Total NUG: Hydro	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
-NUG: Renewables-															
4 Ashland Solar Project (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Condon Wind Project (BPA)	10	10	10	11	13	14	13	12	12	14	14	12	15	11	12
6 Foote Creek 1 (BPA)	3.3	3.3	3.8	5.6	8.3	10	11	9.6	7.2	5.8	5.8	4.6	4.1	3.3	6.4
7 Foote Creek 2 (BPA)	0.4	0.4	0.5	0.7	1	1.3	1.3	1.2	0.9	0.7	0.7	0.5	0.5	0.4	0.8
8 Foote Creek 4 (BPA)	3.9	3.9	4.4	6.5	9.7	12	12	11	8.4	6.7	6.7	5.4	4.8	3.8	7.4
9 Fourmile Hill Geothermal (BPA)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
10 Klondike Phase 1 (BPA)	7.9	7.9	6.2	8.1	8.8	7.8	8.3	7.8	7.8	8.6	8.6	8.8	9.1	8	8.1
11 Stateline Wind Project (BPA)	29	29	23	30	33	29	31	29	29	32	32	33	34	30	30
12 Federal -Total NUG: Renewables	105	105	98	112	124	123	126	121	115	118	118	114	117	106	115
Generating Public Entities															
-NUG: Hydro-															
13 Don Steffen (SHPD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Eltopia Br Canal 4.6 (SCL)	0.9	0.9	0.6	0.3	0	0	0	0	0	0.7	0.7	1	1	1.1	0.5
15 Eltopia Br Canal 4.6 (TPU)	0.9	0.9	0.6	0.3	0	0	0	0	0	0.7	0.7	1	1	1.1	0.5
16 John Llewellyn (SHPD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Kevin Duncan (SHPD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Lucky Peak (SCL)	66	66	41	11	2.2	3	7.9	10	21	52	52	84	85	77	38
19 Main Canal Headworks (SCL)	10	10	6.1	2.6	0	0	0	0	1.4	6.8	6.8	9.1	11	12	4.9
20 Main Canal Headworks (TPU)	10	10	6.1	2.6	0	0	0	0	1.4	6.8	6.8	9.1	11	12	4.9
21 PEC Headworks (GCPD)	4.5	4.5	3.1	2.2	0	0	0	0	0.4	5.1	5.1	6.9	6.2	5.8	2.9
22 Pickering Micro Hydro (CKPD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Potholes E Canal 66.0 (SCL)	0.9	0.9	0.9	0.8	0	0	0	0	0.3	0.9	0.9	0.9	0.9	0.9	0.5
24 Potholes E Canal 66.0 (TPU)	0.9	0.9	0.9	0.8	0	0	0	0	0.3	0.9	0.9	0.9	0.9	0.9	0.5
25 Quincy Chute (GCPD)	7.7	7.7	4	2.3	0	0	0	0	0.8	5.5	5.5	7.1	8.4	8.5	3.7
26 Russel D. Smith (SCL)	2	2	1.3	0.7	0	0	0	0	0.1	1.2	1.2	1.9	2.1	1.7	0.9
27 Russel D. Smith (TPU)	2	2	1.3	0.7	0	0	0	0	0.1	1.2	1.2	1.9	2.1	1.7	0.9
28 Smith Creek (EWEB)	0	0	0	5	5.4	3.9	0	0.8	1.5	9.2	9.2	37	37	11	9.2
29 Summer Falls (SCL)	39	39	24	11	0	0	0	0	2.4	25	25	36	40	44	18
30 Summer Falls (TPU)	39	39	24	11	0	0	0	0	2.4	25	25	36	40	44	18

Table A-24: Regional Non Utility Generating Resources By Project
PNW Loads and Resources Study
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Continued

3/31/2004

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-NUG: Combustion Turbines -															
204 March Point #1 Cogeneration (PSE)	79	79	79	79	79	79	79	79	79	79	79	55	79	79	77
205 March Point #2 Cogeneration (PSE)	59	59	59	59	59	59	59	59	59	59	59	45	59	59	58
206 Rathdrum- Boekel Rd. #1 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
207 Rathdrum -Boekel Rd. #2 (AVWP)	65	65	65	65	65	65	65	65	65	65	65	32	65	65	62
208 Tenaska Gas Cogen (PSE)	240	240	240	240	240	240	240	240	240	240	240	180	240	240	235
209 IOU - Total NUG: Combustion Turbines	508	508	508	508	508	508	508	508	508	508	508	344	508	508	494
-NUG: Co-Generation-															
210 Billings Generation (NWE)	18	18	17	11	17	19	19	19	17	11	11	20	17	16	17
211 Biomass One (PPL)	22	22	21	21	22	22	7.2	15	17	20	20	17	22	22	19
212 Boise Cascade Medford (PPL)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
213 Champion (PPL)	3.3	3.3	3.3	3.3	3.3	3.3	1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1
214 DR Johnson - Co-Gen II (PPL)	7.5	7.5	7.7	5.8	7.3	6.0	6.7	9.1	7.3	7.4	7.4	11	4.2	7.1	7.2
215 Magic Valley (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
216 Magic West (IPC)	9.3	9.3	9.7	9.3	9.6	9.3	9.3	10	9.4	9.7	9.7	9.4	9.7	9.3	9.5
217 PERC Pierce, Wa (PSE)	2	2	2	2	2	2	2	2	2	2	2	0	2	2	1.8
218 Simplot Pocatello (IPC)	8.8	8.8	9.2	8.8	9.1	8.8	8.8	9.6	8.9	9.2	9.2	8.9	9.2	8.8	9.0
219 Sumas Energy (PSE)	113	113	126	126	126	126	126	126	126	113	113	113	113	113	120
220 Tamarack (IPC)	3.8	3.8	4.6	4.7	4.2	3.2	3.6	3.8	4.2	4.4	4.4	3.4	4.6	4.8	4.1
221 TESCO Nampa ID (IPC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
222 TESCO Twin Falls ID (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223 Vaagen Bros. (IPC)	3	3	3.7	3.8	3.3	2.6	2.9	3.1	3.4	3.6	3.6	2.7	3.7	3.8	3.3
224 Warm Springs (PPL)	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0	0.1
225 IOU - Total NUG: Co-Generation	207	208	223	214	223	219	205	221	216	202	201	206	207	207	213
-NUG: Renewables-															
226 Foote Creek 1 (PPL)	4.2	4.2	4.9	7.2	11	13	14	12	9.2	7.4	7.4	5.9	5.2	4.2	8.1
227 Healow #2 (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228 Josef Staufner (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229 Lewandowski Farms (IPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230 Livingston (NWE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Puyallup Energy Recovery (PSE)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
232 Stateline Wind Project (AVWP)	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
233 Windmill (PGE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234 IOU - Total NUG: Renewables	6.5	6.5	7.1	9.5	13	15	16	15	12	9.8	9.8	8.2	7.6	6.5	10
Other Entities															
-NUG: Co-Generation-															
235 SP Newsprint cogen (SPN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
236 Other - Total NUG: Co-Generation	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
-NUG: Renewables-															
237 Stateline Wind Project (PPME)	52	52	41	53	57	51	55	51	51	57	57	57	59	52	53
238 Vansycle Wind (FPLEV)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
239 Other - Total NUG: Renewables	59	59	48	60	65	58	62	58	58	64	64	65	67	60	60
-Total Non-Utility Generating Resources-															
240 Federal Entities	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
241 Generating Public Entities	308	308	226	170	145	138	146	139	151	274	274	366	382	344	232
242 Non Generating Public Entities	3.1	3.1	3.1	3.8	5.4	5.5	5.8	5.1	3.9	3.6	3.6	3.6	3.5	3	4.1
243 Investor-Owned Entities	914	915	906	879	900	890	867	888	901	929	928	806	979	952	901
244 Other Entities	84	84	73	85	90	83	87	83	83	89	89	90	92	85	85
245 Total Non-Utility Generation	1419	1419	1309	1254	1267	1243	1235	1241	1258	1417	1416	1383	1576	1493	1341

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2004 - 2005 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	2169	1866	1923	2291	2503	2563	2302	1894	2068	1920	2159	1825	3287	2574	2274
2 Total Generating Public Entities	2169	1866	1923	2291	2503	2563	2302	1894	2068	1920	2159	1825	3287	2574	2274
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	91	97	79	81	86	88	82	81	84	80	80	77	84	85	83
4 Total Non-Generating Public Entities	91	97	79	81	86	88	82	81	84	80	80	77	84	85	83
-Investor-Owned Entities-															
5 Investor-Owned Entities	6957	6681	6382	6653	6980	7090	6840	6292	6782	6791	6540	6535	7431	7179	6804
6 Total Investor-owned Entities	6957	6681	6382	6653	6980	7090	6840	6292	6782	6791	6540	6535	7431	7179	6804
-Total Dedicated Resources-															
7 Generating Public Entities	2169	1866	1923	2291	2503	2563	2302	1894	2068	1920	2159	1825	3287	2574	2274
8 Small & Non Generating Entities	91	97	79	81	86	88	82	81	84	80	80	77	84	85	83
9 Investor-Owned Entities	6957	6681	6382	6653	6980	7090	6840	6292	6782	6791	6540	6535	7431	7179	6804
10 Regional Total Dedicated Resources	9217	8644	8384	9025	9569	9741	9225	8267	8934	8790	8779	8438	10801	9838	9161

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2005 - 2006 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	2088	1801	1850	2197	2277	2338	2104	1699	1892	1908	2147	1646	3018	2313	2109
2 Total Generating Public Entities	2088	1801	1850	2197	2277	2338	2104	1699	1892	1908	2147	1646	3018	2313	2109
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	85	81	74	81	91	93	83	81	84	85	85	84	93	90	85
4 Total Non-Generating Public Entities	85	81	74	81	91	93	83	81	84	85	85	84	93	90	85
-Investor-Owned Entities-															
5 Investor-Owned Entities	6958	6682	6388	6653	6960	7090	6863	6285	6849	7284	6913	6475	7851	7213	6879
6 Total Investor-owned Entities	6958	6682	6388	6653	6960	7090	6863	6285	6849	7284	6913	6475	7851	7213	6879
-Total Dedicated Resources-															
7 Generating Public Entities	2088	1801	1850	2197	2277	2338	2104	1699	1892	1908	2147	1646	3018	2313	2109
8 Small & Non Generating Entities	85	81	74	81	91	93	83	81	84	85	85	84	93	90	85
9 Investor-Owned Entities	6958	6682	6388	6653	6960	7090	6863	6285	6849	7284	6913	6475	7851	7213	6879
10 Regional Total Dedicated Resources	9131	8564	8312	8931	9328	9521	9049	8064	8825	9276	9145	8205	10961	9616	9072

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2006 - 2007 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	1951	1664	1728	1976	2163	2222	2036	1633	1824	1844	2083	1645	2962	2268	2019
2 Total Generating Public Entities	1951	1664	1728	1976	2163	2222	2036	1633	1824	1844	2083	1645	2962	2268	2019
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	88	84	74	65	70	72	63	61	68	66	66	68	74	70	70
4 Total Non-Generating Public Entities	88	84	74	65	70	72	63	61	68	66	66	68	74	70	70
-Investor-Owned Entities-															
5 Investor-Owned Entities	6941	6773	6482	6685	7006	7127	6853	6322	6874	7277	6815	6072	7015	7040	6781
6 Total Investor-owned Entities	6941	6773	6482	6685	7006	7127	6853	6322	6874	7277	6815	6072	7015	7040	6781
-Total Dedicated Resources-															
7 Generating Public Entities	1951	1664	1728	1976	2163	2222	2036	1633	1824	1844	2083	1645	2962	2268	2019
8 Small & Non Generating Entities	88	84	74	65	70	72	63	61	68	66	66	68	74	70	70
9 Investor-Owned Entities	6941	6773	6482	6685	7006	7127	6853	6322	6874	7277	6815	6072	7015	7040	6781
10 Regional Total Dedicated Resources	8980	8521	8285	8726	9239	9421	8952	8016	8766	9186	8964	7784	10051	9377	8870

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	1903	1616	1669	2003	2191	2253	2064	1660	1852	1871	2110	1585	2996	2301	2027
2 Total Generating Public Entities	1903	1616	1669	2003	2191	2253	2064	1660	1852	1871	2110	1585	2996	2301	2027
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	70	66	59	65	71	69	63	61	68	66	66	68	74	70	67
4 Total Non-Generating Public Entities	70	66	59	65	71	69	63	61	68	66	66	68	74	70	67
-Investor-Owned Entities-															
5 Investor-Owned Entities	7045	6787	6500	6697	7010	7102	6868	6325	6887	7346	7177	6027	7523	7314	6869
6 Total Investor-owned Entities	7045	6787	6500	6697	7010	7102	6868	6325	6887	7346	7177	6027	7523	7314	6869
-Total Dedicated Resources-															
7 Generating Public Entities	1903	1616	1669	2003	2191	2253	2064	1660	1852	1871	2110	1585	2996	2301	2027
8 Small & Non Generating Entities	70	66	59	65	71	69	63	61	68	66	66	68	74	70	67
9 Investor-Owned Entities	7045	6787	6500	6697	7010	7102	6868	6325	6887	7346	7177	6027	7523	7314	6869
10 Regional Total Dedicated Resources	9018	8469	8229	8765	9271	9423	8995	8046	8807	9283	9353	7680	10593	9685	8963

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2008 - 2009 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	1940	1653	1706	2005	2193	2252	2066	1662	1854	1872	2111	1673	2997	2303	2041
2 Total Generating Public Entities	1940	1653	1706	2005	2193	2252	2066	1662	1854	1872	2111	1673	2997	2303	2041
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	70	66	59	64	70	71	62	60	67	65	65	67	73	69	66
4 Total Non-Generating Public Entities	70	66	59	64	70	71	62	60	67	65	65	67	73	69	66
-Investor-Owned Entities-															
5 Investor-Owned Entities	7052	6828	6454	6700	6984	7117	6870	6337	6887	7345	6890	6083	7648	7313	6871
6 Total Investor-owned Entities	7052	6828	6454	6700	6984	7117	6870	6337	6887	7345	6890	6083	7648	7313	6871
-Total Dedicated Resources-															
7 Generating Public Entities	1940	1653	1706	2005	2193	2252	2066	1662	1854	1872	2111	1673	2997	2303	2041
8 Small & Non Generating Entities	70	66	59	64	70	71	62	60	67	65	65	67	73	69	66
9 Investor-Owned Entities	7052	6828	6454	6700	6984	7117	6870	6337	6887	7345	6890	6083	7648	7313	6871
10 Regional Total Dedicated Resources	9062	8547	8219	8769	9246	9439	8997	8059	8807	9282	9066	7823	10718	9685	8978

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2009 - 2010 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	1941	1654	1707	2005	2124	2184	2016	1616	1792	1674	1913	1771	2958	2253	2002
2 Total Generating Public Entities	1941	1654	1707	2005	2124	2184	2016	1616	1792	1674	1913	1771	2958	2253	2002
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	69	65	58	64	71	72	64	62	65	65	65	63	70	71	66
4 Total Non-Generating Public Entities	69	65	58	64	71	72	64	62	65	65	65	63	70	71	66
-Investor-Owned Entities-															
5 Investor-Owned Entities	7017	6770	6456	6672	6923	7043	6827	6287	6795	6645	6569	6648	7217	7231	6800
6 Total Investor-owned Entities	7017	6770	6456	6672	6923	7043	6827	6287	6795	6645	6569	6648	7217	7231	6800
-Total Dedicated Resources-															
7 Generating Public Entities	1941	1654	1707	2005	2124	2184	2016	1616	1792	1674	1913	1771	2958	2253	2002
8 Small & Non Generating Entities	69	65	58	64	71	72	64	62	65	65	65	63	70	71	66
9 Investor-Owned Entities	7017	6770	6456	6672	6923	7043	6827	6287	6795	6645	6569	6648	7217	7231	6800
10 Regional Total Dedicated Resources	9028	8489	8221	8742	9117	9299	8907	7965	8653	8384	8547	8482	10246	9555	8868

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2010 - 2011 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	1883	1613	1673	1957	2128	2188	2020	1620	1796	1682	1921	1607	2967	2235	1978
2 Total Generating Public Entities	1883	1613	1673	1957	2128	2188	2020	1620	1796	1682	1921	1607	2967	2235	1978
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	72	67	57	63	70	71	63	61	65	65	65	63	70	71	66
4 Total Non-Generating Public Entities	72	67	57	63	70	71	63	61	65	65	65	63	70	71	66
-Investor-Owned Entities-															
5 Investor-Owned Entities	6932	6703	6381	6620	6837	6967	6740	6202	6720	6607	6298	6334	7603	7238	6743
6 Total Investor-owned Entities	6932	6703	6381	6620	6837	6967	6740	6202	6720	6607	6298	6334	7603	7238	6743
-Total Dedicated Resources-															
7 Generating Public Entities	1883	1613	1673	1957	2128	2188	2020	1620	1796	1682	1921	1607	2967	2235	1978
8 Small & Non Generating Entities	72	67	57	63	70	71	63	61	65	65	65	63	70	71	66
9 Investor-Owned Entities	6932	6703	6381	6620	6837	6967	6740	6202	6720	6607	6298	6334	7603	7238	6743
10 Regional Total Dedicated Resources	8887	8383	8111	8640	9034	9226	8823	7883	8581	8354	8284	8004	10639	9545	8787

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2011 - 2012 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	1924	1658	1709	2091	2291	2350	2176	1777	1966	2064	2288	1710	3189	2466	2141
2 Total Generating Public Entities	1924	1658	1709	2091	2291	2350	2176	1777	1966	2064	2288	1710	3189	2466	2141
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	72	67	56	58	63	64	58	56	60	55	55	53	60	61	59
4 Total Non-Generating Public Entities	72	67	56	58	63	64	58	56	60	55	55	53	60	61	59
-Investor-Owned Entities-															
5 Investor-Owned Entities	6931	6674	6393	6498	6721	6839	6627	6088	6637	7037	6871	5788	7390	7062	6650
6 Total Investor-owned Entities	6931	6674	6393	6498	6721	6839	6627	6088	6637	7037	6871	5788	7390	7062	6650
-Total Dedicated Resources-															
7 Generating Public Entities	1924	1658	1709	2091	2291	2350	2176	1777	1966	2064	2288	1710	3189	2466	2141
8 Small & Non Generating Entities	72	67	56	58	63	64	58	56	60	55	55	53	60	61	59
9 Investor-Owned Entities	6931	6674	6393	6498	6721	6839	6627	6088	6637	7037	6871	5788	7390	7062	6650
10 Regional Total Dedicated Resources	8927	8399	8159	8647	9074	9253	8861	7921	8663	9157	9213	7551	10639	9589	8850

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	2066	1801	1842	2098	2297	2356	2182	1783	1972	2070	2293	1789	3195	2472	2175
2 Total Generating Public Entities	2066	1801	1842	2098	2297	2356	2182	1783	1972	2070	2293	1789	3195	2472	2175
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	61	57	50	58	62	63	58	56	60	55	55	53	59	61	58
4 Total Non-Generating Public Entities	61	57	50	58	62	63	58	56	60	55	55	53	59	61	58
-Investor-Owned Entities-															
5 Investor-Owned Entities	6777	6561	6272	6507	6715	6834	6624	6084	6513	6549	6506	6289	7448	7032	6626
6 Total Investor-owned Entities	6777	6561	6272	6507	6715	6834	6624	6084	6513	6549	6506	6289	7448	7032	6626
-Total Dedicated Resources-															
7 Generating Public Entities	2066	1801	1842	2098	2297	2356	2182	1783	1972	2070	2293	1789	3195	2472	2175
8 Small & Non Generating Entities	61	57	50	58	62	63	58	56	60	55	55	53	59	61	58
9 Investor-Owned Entities	6777	6561	6272	6507	6715	6834	6624	6084	6513	6549	6506	6289	7448	7032	6626
10 Regional Total Dedicated Resources	8904	8418	8164	8662	9074	9254	8864	7923	8545	8673	8854	8131	10702	9565	8859

**Table A-25: Dedicated Resources
PNW Loads and Resources Study
2013 - 2014 Operating Year
1937 Water Year
2003 White Book**

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	2078	1813	1854	2110	2310	2369	2195	1796	1985	2081	2305	1790	3207	2484	2186
2 Total Generating Public Entities	2078	1813	1854	2110	2310	2369	2195	1796	1985	2081	2305	1790	3207	2484	2186
-Non-Generating Public Entities-															
3 Non-Generating Public Entities	61	56	50	58	62	63	58	56	59	55	55	53	59	61	58
4 Total Non-Generating Public Entities	61	56	50	58	62	63	58	56	59	55	55	53	59	61	58
-Investor-Owned Entities-															
5 Investor-Owned Entities	6786	6558	6280	6503	6711	6831	6621	6087	6638	7029	6871	6200	7407	7042	6662
6 Total Investor-owned Entities	6786	6558	6280	6503	6711	6831	6621	6087	6638	7029	6871	6200	7407	7042	6662
-Total Dedicated Resources-															
7 Generating Public Entities	2078	1813	1854	2110	2310	2369	2195	1796	1985	2081	2305	1790	3207	2484	2186
8 Small & Non Generating Entities	61	56	50	58	62	63	58	56	59	55	55	53	59	61	58
9 Investor-Owned Entities	6786	6558	6280	6503	6711	6831	6621	6087	6638	7029	6871	6200	7407	7042	6662
10 Regional Total Dedicated Resources	8926	8427	8184	8670	9082	9263	8873	7938	8682	9165	9231	8043	10673	9587	8906

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2004 - 2005 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	3529	3191	3067	3320	3850	4124	3979	3846	3687	3410	3362	3311	3213	3362	3542
2 Total Generating Public Entities	3529	3191	3067	3320	3850	4124	3979	3846	3687	3410	3362	3311	3213	3362	3542
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	3531	3336	2986	3088	3437	3848	3823	3576	3350	3163	3137	3120	3260	3530	3383
4 Total Non-Generating Public Entities	3531	3336	2986	3088	3437	3848	3823	3576	3350	3163	3137	3120	3260	3530	3383
-Investor-Owned Entities-															
5 Investor-Owned Entities	3411	3410	3342	3445	3722	3800	3994	3762	3423	3041	3058	2108	3362	3553	3414
6 Total Investor-owned Entities	3411	3410	3342	3445	3722	3800	3994	3762	3423	3041	3058	2108	3362	3553	3414
-Total Dedicated Resources-															
7 Generating Public Entities	3529	3191	3067	3320	3850	4124	3979	3846	3687	3410	3362	3311	3213	3362	3542
8 Non Generating Entities	3531	3336	2986	3088	3437	3848	3823	3576	3350	3163	3137	3120	3260	3530	3383
9 Investor-Owned Entities	3411	3410	3342	3445	3722	3800	3994	3762	3423	3041	3058	2108	3362	3553	3414
10 Regional Total Dedicated Resources	10471	9936	9395	9853	11009	11772	11796	11185	10459	9614	9558	8539	9836	10445	10340

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2005 - 2006 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	3613	3259	3152	3431	4101	4368	4168	4001	3866	3394	3345	3374	3382	3457	3675
2 Total Generating Public Entities	3613	3259	3152	3431	4101	4368	4168	4001	3866	3394	3345	3374	3382	3457	3675
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	3580	3394	3030	3123	3477	3892	3876	3626	3396	3208	3181	3213	3375	3574	3439
4 Total Non-Generating Public Entities	3580	3394	3030	3123	3477	3892	3876	3626	3396	3208	3181	3213	3375	3574	3439
-Investor-Owned Entities-															
5 Investor-Owned Entities	3651	3646	3581	3699	3871	4026	4087	3743	3507	3200	3210	2060	3435	3135	3500
6 Total Investor-owned Entities	3651	3646	3581	3699	3871	4026	4087	3743	3507	3200	3210	2060	3435	3135	3500
-Total Dedicated Resources-															
7 Generating Public Entities	3613	3259	3152	3431	4101	4368	4168	4001	3866	3394	3345	3374	3382	3457	3675
8 Non Generating Entities	3580	3394	3030	3123	3477	3892	3876	3626	3396	3208	3181	3213	3375	3574	3439
9 Investor-Owned Entities	3651	3646	3581	3699	3871	4026	4087	3743	3507	3200	3210	2060	3435	3135	3500
10 Regional Total Dedicated Resources	10844	10298	9762	10253	11449	12285	12131	11371	10770	9802	9736	8647	10193	10166	10614

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2006 - 2007 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	3669	3295	3198	3874	4457	4757	4435	4259	4097	3552	3501	3357	3349	3653	3870
2 Total Generating Public Entities	3669	3295	3198	3874	4457	4757	4435	4259	4097	3552	3501	3357	3349	3653	3870
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	3625	3439	3082	3289	3674	4049	4074	3821	3558	3383	3354	3348	3530	3790	3593
4 Total Non-Generating Public Entities	3625	3439	3082	3289	3674	4049	4074	3821	3558	3383	3354	3348	3530	3790	3593
-Investor-Owned Entities-															
5 Investor-Owned Entities	3263	3836	3742	3257	3474	3564	3590	3408	3119	2463	2391	1697	3030	3299	3180
6 Total Investor-owned Entities	3263	3836	3742	3257	3474	3564	3590	3408	3119	2463	2391	1697	3030	3299	3180
-Total Dedicated Resources-															
7 Generating Public Entities	3669	3295	3198	3874	4457	4757	4435	4259	4097	3552	3501	3357	3349	3653	3870
8 Non Generating Entities	3625	3439	3082	3289	3674	4049	4074	3821	3558	3383	3354	3348	3530	3790	3593
9 Investor-Owned Entities	3263	3836	3742	3257	3474	3564	3590	3408	3119	2463	2391	1697	3030	3299	3180
10 Regional Total Dedicated Resources	10557	10570	10022	10420	11605	12371	12100	11487	10773	9397	9246	8402	9910	10742	10643

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	3935	3559	3427	3794	4381	4682	4454	4258	4114	3564	3513	3467	3469	3668	3917
2 Total Generating Public Entities	3935	3559	3427	3794	4381	4682	4454	4258	4114	3564	3513	3467	3469	3668	3917
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	3859	3672	3253	3319	3709	4089	4114	3825	3593	3415	3387	3438	3627	3826	3663
4 Total Non-Generating Public Entities	3859	3672	3253	3319	3709	4089	4114	3825	3593	3415	3387	3438	3627	3826	3663
-Investor-Owned Entities-															
5 Investor-Owned Entities	3407	3404	3255	3345	3594	3598	3437	3291	3200	2790	2687	1855	2923	3446	3174
6 Total Investor-owned Entities	3407	3404	3255	3345	3594	3598	3437	3291	3200	2790	2687	1855	2923	3446	3174
-Total Dedicated Resources-															
7 Generating Public Entities	3935	3559	3427	3794	4381	4682	4454	4258	4114	3564	3513	3467	3469	3668	3917
8 Non Generating Entities	3859	3672	3253	3319	3709	4089	4114	3825	3593	3415	3387	3438	3627	3826	3663
9 Investor-Owned Entities	3407	3404	3255	3345	3594	3598	3437	3291	3200	2790	2687	1855	2923	3446	3174
10 Regional Total Dedicated Resources	11201	10635	9936	10458	11684	12370	12005	11373	10907	9770	9586	8760	10019	10940	10754

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2008 - 2009 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	3948	3572	3438	3806	4396	4696	4469	4291	4127	3577	3525	3382	3373	3679	3914
2 Total Generating Public Entities	3948	3572	3438	3806	4396	4696	4469	4291	4127	3577	3525	3382	3373	3679	3914
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	3892	3704	3283	3348	3742	4127	4153	3899	3629	3449	3419	3411	3595	3859	3690
4 Total Non-Generating Public Entities	3892	3704	3283	3348	3742	4127	4153	3899	3629	3449	3419	3411	3595	3859	3690
-Investor-Owned Entities-															
5 Investor-Owned Entities	3551	3522	3464	3354	3379	3460	3447	3340	3201	2786	2684	1588	2823	3443	3148
6 Total Investor-owned Entities	3551	3522	3464	3354	3379	3460	3447	3340	3201	2786	2684	1588	2823	3443	3148
-Total Dedicated Resources-															
7 Generating Public Entities	3948	3572	3438	3806	4396	4696	4469	4291	4127	3577	3525	3382	3373	3679	3914
8 Non Generating Entities	3892	3704	3283	3348	3742	4127	4153	3899	3629	3449	3419	3411	3595	3859	3690
9 Investor-Owned Entities	3551	3522	3464	3354	3379	3460	3447	3340	3201	2786	2684	1588	2823	3443	3148
10 Regional Total Dedicated Resources	11391	10798	10184	10508	11517	12284	12070	11530	10957	9811	9628	8381	9792	10981	10751

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2009 - 2010 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	3961	3584	3449	3820	4554	4853	4588	4399	4247	3680	3627	3579	3626	3813	4029
2 Total Generating Public Entities	3961	3584	3449	3820	4554	4853	4588	4399	4247	3680	3627	3579	3626	3813	4029
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	3925	3737	3313	3379	3777	4167	4201	3940	3667	3486	3456	3504	3694	3896	3737
4 Total Non-Generating Public Entities	3925	3737	3313	3379	3777	4167	4201	3940	3667	3486	3456	3504	3694	3896	3737
-Investor-Owned Entities-															
5 Investor-Owned Entities	3544	3577	3481	3257	3420	3442	3422	3282	3087	2776	2772	1610	2767	3371	3123
6 Total Investor-owned Entities	3544	3577	3481	3257	3420	3442	3422	3282	3087	2776	2772	1610	2767	3371	3123
-Total Dedicated Resources-															
7 Generating Public Entities	3961	3584	3449	3820	4554	4853	4588	4399	4247	3680	3627	3579	3626	3813	4029
8 Non Generating Entities	3925	3737	3313	3379	3777	4167	4201	3940	3667	3486	3456	3504	3694	3896	3737
9 Investor-Owned Entities	3544	3577	3481	3257	3420	3442	3422	3282	3087	2776	2772	1610	2767	3371	3123
10 Regional Total Dedicated Resources	11429	10897	10242	10455	11751	12461	12211	11621	11000	9941	9855	8693	10087	11080	10889

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2010 - 2011 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	4128	3708	3548	3953	4581	4887	4622	4428	4262	3692	3639	3493	3514	3835	4059
2 Total Generating Public Entities	4128	3708	3548	3953	4581	4887	4622	4428	4262	3692	3639	3493	3514	3835	4059
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	3961	3773	3346	3412	3814	4209	4239	3978	3701	3517	3487	3476	3662	3929	3761
4 Total Non-Generating Public Entities	3961	3773	3346	3412	3814	4209	4239	3978	3701	3517	3487	3476	3662	3929	3761
-Investor-Owned Entities-															
5 Investor-Owned Entities	3513	3521	3324	3291	3377	3462	3331	3211	3112	2570	2678	1790	2656	3262	3080
6 Total Investor-owned Entities	3513	3521	3324	3291	3377	3462	3331	3211	3112	2570	2678	1790	2656	3262	3080
-Total Dedicated Resources-															
7 Generating Public Entities	4128	3708	3548	3953	4581	4887	4622	4428	4262	3692	3639	3493	3514	3835	4059
8 Non Generating Entities	3961	3773	3346	3412	3814	4209	4239	3978	3701	3517	3487	3476	3662	3929	3761
9 Investor-Owned Entities	3513	3521	3324	3291	3377	3462	3331	3211	3112	2570	2678	1790	2656	3262	3080
10 Regional Total Dedicated Resources	11602	11001	10218	10656	11773	12558	12192	11617	11075	9779	9804	8759	9832	11026	10900

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2011 - 2012 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	4115	3689	3540	4003	4597	4913	4618	4339	4285	3714	3676	3630	3659	3832	4084
2 Total Generating Public Entities	4115	3689	3540	4003	4597	4913	4618	4339	4285	3714	3676	3630	3659	3832	4084
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	3989	3801	3371	3462	3876	4287	4229	3957	3704	3516	3485	3553	3769	3971	3798
4 Total Non-Generating Public Entities	3989	3801	3371	3462	3876	4287	4229	3957	3704	3516	3485	3553	3769	3971	3798
-Investor-Owned Entities-															
5 Investor-Owned Entities	3354	3305	3226	3186	3365	3378	3356	3232	3060	2631	2581	1539	2697	3305	3023
6 Total Investor-owned Entities	3354	3305	3226	3186	3365	3378	3356	3232	3060	2631	2581	1539	2697	3305	3023
-Total Dedicated Resources-															
7 Generating Public Entities	4115	3689	3540	4003	4597	4913	4618	4339	4285	3714	3676	3630	3659	3832	4084
8 Non Generating Entities	3989	3801	3371	3462	3876	4287	4229	3957	3704	3516	3485	3553	3769	3971	3798
9 Investor-Owned Entities	3354	3305	3226	3186	3365	3378	3356	3232	3060	2631	2581	1539	2697	3305	3023
10 Regional Total Dedicated Resources	11459	10795	10136	10651	11838	12578	12203	11527	11049	9861	9743	8721	10125	11108	10905

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	4140	3713	3562	4013	4609	4926	4631	4452	4297	3724	3686	3541	3565	3844	4089
2 Total Generating Public Entities	4140	3713	3562	4013	4609	4926	4631	4452	4297	3724	3686	3541	3565	3844	4089
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	4036	3847	3400	3479	3896	4309	4270	4051	3741	3552	3521	3529	3741	4008	3825
4 Total Non-Generating Public Entities	4036	3847	3400	3479	3896	4309	4270	4051	3741	3552	3521	3529	3741	4008	3825
-Investor-Owned Entities-															
5 Investor-Owned Entities	3307	3355	3263	3193	3323	3369	3369	3234	3099	2655	2569	1805	2716	3221	3045
6 Total Investor-owned Entities	3307	3355	3263	3193	3323	3369	3369	3234	3099	2655	2569	1805	2716	3221	3045
-Total Dedicated Resources-															
7 Generating Public Entities	4140	3713	3562	4013	4609	4926	4631	4452	4297	3724	3686	3541	3565	3844	4089
8 Non Generating Entities	4036	3847	3400	3479	3896	4309	4270	4051	3741	3552	3521	3529	3741	4008	3825
9 Investor-Owned Entities	3307	3355	3263	3193	3323	3369	3369	3234	3099	2655	2569	1805	2716	3221	3045
10 Regional Total Dedicated Resources	11482	10914	10226	10685	11829	12604	12270	11737	11137	9931	9776	8875	10022	11073	10959

Table A-26: Other Dedicated Resources
PNW Loads and Resources Study
2013 - 2014 Operating Year
1937 Water Year
2003 White Book

3/31/2004

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
-Generating Public Entities-															
1 Generating Public Entities	4152	3724	3573	4025	4622	4939	4643	4463	4308	3733	3694	3647	3710	3884	4122
2 Total Generating Public Entities	4152	3724	3573	4025	4622	4939	4643	4463	4308	3733	3694	3647	3710	3884	4122
-Non-Generating Public Entities-															
3 Small & Non Generating Public Entities	4072	3882	3434	3513	3935	4349	4308	4087	3775	3583	3552	3617	3835	4040	3870
4 Total Non-Generating Public Entities	4072	3882	3434	3513	3935	4349	4308	4087	3775	3583	3552	3617	3835	4040	3870
-Investor-Owned Entities-															
5 Investor-Owned Entities	3335	3335	3294	3160	3319	3354	3364	3251	3095	2620	2603	1529	2583	3223	3010
6 Total Investor-owned Entities	3335	3335	3294	3160	3319	3354	3364	3251	3095	2620	2603	1529	2583	3223	3010
-Total Dedicated Resources-															
7 Generating Public Entities	4152	3724	3573	4025	4622	4939	4643	4463	4308	3733	3694	3647	3710	3884	4122
8 Non Generating Entities	4072	3882	3434	3513	3935	4349	4308	4087	3775	3583	3552	3617	3835	4040	3870
9 Investor-Owned Entities	3335	3335	3294	3160	3319	3354	3364	3251	3095	2620	2603	1529	2583	3223	3010
10 Regional Total Dedicated Resources	11559	10941	10300	10698	11877	12643	12315	11802	11179	9935	9849	8793	10127	11146	11002

BonnevillePowerAdministration

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