

2011 Pacific Northwest Loads and Resources Study

Technical Appendix, Volume 2: Capacity Analysis

May 2011



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2011 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY

The White Book

TECHNICAL APPENDIX

VOLUME 2

CAPACITY ANALYSIS

BONNEVILLE POWER ADMINISTRATION
May 2011

Cover Picture:

Source: BPA Photo archive

Pictured is of The Dalles Dam. The Dalles Dam is a hydroelectric dam on the Columbia River, at river mile 191.5. It is located in The Dalles, Oregon and bridges the Columbia River between Oregon and Washington. It is owned and operated by the U.S. Corps of Engineers.

The Dalles Dam was authorized in 1950, dam construction was completed in 1957, with the completion of generating units 1 through 14 in 1960 and units 15 through 22 completed in 1973. The nameplate generating capability is 2052 megawatts.

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 Asset Management:

Resources and Loads Analysis Group
Regional Coordination Group
Operational Planning Group

NW Requirements Marketing:

Western Customer Services Group
Eastern Customer Services Group

Bulk Marketing and Transmission Services:

Long Term Sales and
Purchasing Group

Customer Support Services:

Load Forecasting and Analysis Group

Office of General Counsel

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Loads and Resources Information System

**2011 Pacific Northwest Loads and Resources
For Operating Years 2012 Through 2021
Technical Appendix, Volume 2
Capacity Analysis**

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Section 9
Monthly Federal System
Loads & Resources

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Monthly Federal System
Loads & Resources
1-Hour Capacity in Megawatts

For OY 2012 – 2021

Power Services

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Loads and Resources Information System

**Loads and Resources - Federal System
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	132	132	125	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	0	0	0	141	171	194	188	170	177	142	142	133	135	140
5 Total Firm Non-Utility Obligations	1125	1125	1044	998	672	798	543	811	929	946	946	1053	1085	1150
Transfers Out														
6 NGP 2002 PSC	3674	3674	3763	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	2539	2539	2489	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	954	790	727	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	1588	1317	1211	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	0	0	0	4360	4819	5630	5453	5116	4703	4531	4531	4307	4319	4510
12 GPU 2012 PSC	0	0	0	1468	1847	2039	2079	1890	1793	1459	1459	1224	1096	1293
13 NGP 2012 Slice PSC	0	0	0	418	575	589	636	554	522	440	539	639	571	606
14 GPU 2012 Slice PSC	0	0	0	1705	2345	2404	2593	2259	2130	1796	2201	2606	2330	2474
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1785	1785	1778	1633	1586	1587	1585	1586	1586	1614	1614	1678	1678	1680
17 Regional Transfers (Out)	1265	1266	493	475	682	778	833	764	685	771	771	509	490	204
18 Federal Diversity	-508	-546	-567	-332	-283	-520	-287	-305	-358	-459	-474	-478	-480	-392
19 Total Transfers Out	11297	10825	9894	9728	11572	12507	12892	11865	11061	10152	10641	10486	10004	10375
20 Total Firm Obligations	12422	11950	10938	10726	12244	13305	13435	12676	11989	11097	11587	11539	11089	11525
Hydro Resources (1 Hour.)														
21 Regulated Hydro	16570	14006	13236	12345	15252	15056	15296	14378	13621	12184	13802	15650	14211	16379
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13912	11863	11018	10205	13126	13578	14219	12875	12240	10707	12701	14724	13471	14260
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	22	22	19	14	18
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	592	592	297	179	479	422	422	422	422	422	422	122	122	122
31 Non-Fed CER (Canada)	249	249	249	249	249	249	249	249	249	245	245	245	245	245
32 Transmission Loss Returns	0	0	0	51	71	72	78	68	64	54	66	79	70	75
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	2193	2193	1902	1945	2299	2345	2354	2278	2275	2291	2303	1837	1770	1799
38 Total Resources	16105	14056	12919	12150	15425	15923	16573	15153	14515	12998	15003	16561	15241	16059
Reserves & Losses (1 Hour.)														
39 Contingency Reserves (Non-Spinning)	-364	-364	-346	-347	-406	-430	-434	-409	-377	-358	-387	-379	-375	-402
40 Contingency Reserves (Spinning)	-394	-364	-346	-347	-406	-430	-434	-409	-377	-358	-387	-379	-375	-402
41 Generation Imbalance Reserves	311	-311	-338	-290	-290	-290	-290	-290	-294	-320	-320	-320	-320	-320
42 Load Following Reserves	-415	-415	-432	-403	-403	-403	-403	-403	-408	-419	-419	-419	-419	-419
43 Federal Transmission Losses	-489	-422	-384	-361	-466	-481	-503	-457	-438	-387	-452	-505	-461	-486
44 Total Reserves & Losses	-2002	-1876	-1846	-1748	-1972	-2036	-2065	-1968	-1893	-1841	-1964	-2001	-1950	-2029

Loads and Resources - Federal System
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	14103	12180	11073	10402	13453	13887	14508	13185	12623	11157	13040	14560	13291	14030
<i>46 Total Firm Surplus/Deficit</i>	1681	230	135	-324	1209	582	1073	509	633	60	1453	3021	2202	2505

**Loads and Resources - Federal System
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	132	132	125	147	179	202	190	175	180	144	144	134	137	141
5 Total Firm Non-Utility Obligations	1125	1125	1044	1004	679	806	545	816	931	947	947	1055	1087	1152
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4388	4388	4165	4437	4898	5715	5533	5256	4781	4608	4608	4391	4401	4638
12 GPU 2012 PSC	1312	1312	1441	1510	1903	2102	2144	2011	1847	1500	1500	1261	1129	1331
13 NGP 2012 Slice PSC	554	472	434	418	607	594	640	541	510	430	535	590	518	613
14 GPU 2012 Slice PSC	2259	1924	1769	1706	2476	2422	2609	2207	2079	1752	2182	2408	2111	2499
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1687	1687	1685	1640	1593	1594	1390	1391	1390	1419	1419	1482	1483	1484
17 Regional Transfers (Out)	171	172	168	300	507	603	608	540	460	469	472	209	191	203
18 Federal Diversity	-459	-494	-521	-336	-286	-526	-290	-311	-362	-465	-479	-484	-486	-400
19 Total Transfers Out	9911	9461	9142	9674	11699	12502	12633	11635	10706	9713	10237	9857	9346	10369
20 Total Firm Obligations	11036	10586	10185	10678	12378	13308	13178	12451	11637	10661	11185	10912	10432	11521
Hydro Resources (1 Hour.)														
21 Regulated Hydro	15860	13703	12902	12459	16006	15314	15551	14311	13552	12116	13856	15867	14334	16656
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13202	11561	10684	10318	13879	13836	14474	12809	12172	10639	12754	14941	13594	14537
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	22	22	19	14	18
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	122	122	145	181	481	458	458	458	458	458	458	158	158	158
31 Non-Fed CER (Canada)	245	245	245	245	245	245	245	245	245	239	239	239	239	239
32 Transmission Loss Returns	68	58	53	51	75	73	79	67	63	53	66	73	64	75
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1787	1777	1799	1943	2301	2377	2386	2308	2305	2319	2332	731	663	1830
38 Total Resources	14989	13338	12483	12261	16180	16213	16860	15117	14477	12959	15087	15672	14257	16367
Reserves & Losses (1 Hour.)														
39 Contingency Reserves (Non-Spinning)	-361	-361	-343	-349	-417	-434	-437	-407	-375	-356	-387	-366	-361	-405
40 Contingency Reserves (Spinning)	-384	-384	-343	-349	-417	-434	-437	-407	-375	-356	-387	-366	-361	-405
41 Generation Imbalance Reserves	350	350	353	353	353	387	387	396	396	396	396	396	396	399
42 Load Following Reserves	-433	-433	-436	-438	-438	-466	-466	-470	-470	-470	-470	-470	-470	-474
43 Federal Transmission Losses	-450	-396	-369	-361	-488	-485	-507	-450	-431	-381	-450	-472	-424	-492
44 Total Reserves & Losses	-2002	-1901	-1843	-1849	-2113	-2206	-2234	-2131	-2047	-1960	-2091	-2069	-2012	-2176

Loads and Resources - Federal System
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	12987	11437	10640	10412	14067	14007	14626	12986	12430	10998	12996	13604	12245	14190
<i>46 Total Firm Surplus/Deficit</i>	1951	851	455	-266	1689	699	1447	534	794	338	1811	2692	1813	2670

**Loads and Resources - Federal System
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	134	134	126	149	181	204	203	186	192	152	152	144	146	150
5 Total Firm Non-Utility Obligations	127	1127	1045	1006	681	808	558	826	943	955	955	1064	1096	1161
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4510	4510	4292	4525	4996	5841	5652	5340	4880	4698	4698	4472	4471	4664
12 GPU 2012 PSC	1349	1349	1483	1496	1887	2083	2126	1995	1832	1486	1486	1250	1119	1319
13 NGP 2012 Slice PSC	555	468	430	441	567	591	628	535	505	444	526	634	573	592
14 GPU 2012 Slice PSC	2265	1909	1756	1799	2315	2410	2561	2184	2062	1810	2147	2588	2339	2414
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1500	1500	1498	1452	1406	1407	1405	1406	1406	1434	1434	1497	1498	1499
17 Regional Transfers (Out)	171	172	168	300	507	603	608	540	460	469	472	209	156	169
18 Federal Diversity	-469	-504	-533	-343	-292	-538	-297	-316	-370	-474	-488	-493	-495	-403
19 Total Transfers Out	9882	9404	9096	9671	11386	12398	12682	11683	10775	9867	10276	10157	9661	10255
20 Total Firm Obligations	11008	10530	10141	10677	12068	13206	13240	12509	11718	10822	11231	11221	10757	11416
Hydro Resources (1 Hour.)														
21 Regulated Hydro	16032	13766	12974	13099	15401	15384	15443	14308	13577	12503	13796	15818	14545	16377
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13374	11624	10756	10958	13275	13905	14366	12805	12196	11026	12695	14892	13805	14258
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	22	22	19	14	18
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	158	158	181	123	373	350	350	350	350	350	350	100	100	100
31 Non-Fed CER (Canada)	239	239	239	239	239	239	239	239	239	238	238	238	238	238
32 Transmission Loss Returns	68	58	53	54	70	73	77	66	62	55	65	78	71	73
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1817	1807	1828	1882	2182	2263	2271	2194	2191	2212	2223	1808	1741	1768
38 Total Resources	15191	13430	12584	12840	15457	16169	16637	14999	14387	13239	14917	16700	15546	16026
Reserves & Losses (1 Hour.)														
39 Contingency Reserves (Non-Spinning)	-367	-362	-344	-358	-408	-435	-436	-407	-376	-362	-387	-382	-380	-401
40 Contingency Reserves (Spinning)	-387	-362	-344	-358	-408	-435	-436	-407	-376	-362	-387	-382	-380	-401
41 Generation Imbalance Reserves	411	-411	-411	-424	-424	-424	-424	-424	-424	-427	-427	-427	-470	-470
42 Load Following Reserves	-486	-486	-486	-502	-502	-502	-502	-503	-503	-504	-504	-504	-532	-532
43 Federal Transmission Losses	-453	-396	-368	-375	-459	-481	-497	-444	-426	-388	-443	-503	-462	-476
44 Total Reserves & Losses	-2125	-2017	-1954	-2016	-2201	-2278	-2295	-2186	-2105	-2045	-2148	-2198	-2222	-2280

Loads and Resources - Federal System
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	13067	11414	10630	10825	13256	13891	14342	12813	12283	11194	12770	14502	13323	13746
<i>46 Total Firm Surplus/Deficit</i>	2058	883	489	148	1188	685	1102	304	565	372	1538	3281	2567	2331

**Loads and Resources - Federal System
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	143	143	135	160	196	220	216	198	205	160	160	154	156	160
5 Total Firm Non-Utility Obligations	1136	1136	1054	1017	697	824	571	839	956	963	963	1074	1106	1171
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4540	4540	4314	4571	5044	5894	5706	5416	4928	4747	4747	4524	4525	4721
12 GPU 2012 PSC	1337	1337	1470	1533	1935	2136	2180	2044	1878	1524	1524	1285	1150	1354
13 NGP 2012 Slice PSC	554	465	429	416	567	601	625	528	505	434	323	594	495	610
14 GPU 2012 Slice PSC	2262	1896	1750	1696	2312	2453	2549	2155	2062	1770	1318	2425	2019	2489
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1514	1514	1512	1466	1420	1421	1419	1420	1420	1448	1448	1496	1496	1498
17 Regional Transfers (Out)	171	174	167	300	508	603	608	540	460	469	472	209	155	169
18 Federal Diversity	-472	-508	-536	-346	-295	-543	-300	-321	-373	-478	-493	-499	-500	-407
19 Total Transfers Out	9906	9418	9105	9636	11490	12565	12786	11783	10880	9913	9339	10035	9341	10435
20 Total Firm Obligations	11042	10554	10159	10653	12187	13390	13357	12621	11836	10877	10302	11109	10447	11606
Hydro Resources (1 Hour.)														
21 Regulated Hydro	16165	13852	13110	12721	15520	15705	15496	14298	13710	12436	9842	16179	14145	16872
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13507	11709	10892	10581	13394	14227	14418	12796	12330	10959	8741	15253	13405	14752
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	22	22	19	14	18
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	100	100	100	100	100	100	100	100	100	100	100	100	100	100
31 Non-Fed CER (Canada)	238	238	238	238	238	238	238	238	238	237	237	237	237	237
32 Transmission Loss Returns	68	57	53	51	70	74	77	65	62	53	40	73	61	75
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1758	1747	1746	1855	1908	2013	2020	1942	1940	1960	1946	672	600	1770
38 Total Resources	15266	13456	12639	12436	15302	16240	16438	14738	14270	12919	10688	15925	14005	16522
Reserves & Losses (1 Hour.)														
39 Contingency Reserves (Non-Spinning)	-363	-363	-346	-352	-410	-440	-437	-408	-378	-361	-329	-371	-357	-408
40 Contingency Reserves (Spinning)	-389	-389	-346	-352	-410	-440	-437	-408	-378	-361	-329	-371	-357	-408
41 Generation Imbalance Reserves	470	470	470	481	481	481	482	486	486	486	486	486	539	539
42 Load Following Reserves	-532	-532	-532	-535	-535	-535	-537	-555	-555	-555	-555	-555	-582	-582
43 Federal Transmission Losses	-452	-393	-367	-359	-451	-481	-487	-432	-418	-374	-301	-474	-408	-489
44 Total Reserves & Losses	-2231	-2120	-2060	-2079	-2287	-2377	-2381	-2288	-2214	-2137	-2000	-2256	-2244	-2427

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	13035	11336	10579	10357	13015	13863	14057	12450	12056	10782	8688	13669	11761	14095
<i>46 Total Firm Surplus/Deficit</i>	1993	783	420	-296	829	474	700	-172	220	-95	-1615	2560	1314	2490

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	153	153	144	172	212	237	223	201	211	164	164	159	161	165
5 Total Firm Non-Utility Obligations	1146	1146	1063	1029	712	841	577	841	963	967	967	1079	1111	1175
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4594	4594	4361	4613	5088	5942	5752	5391	4968	4785	4785	4565	4564	4761
12 GPU 2012 PSC	1372	1372	1507	1520	1918	2118	2162	1964	1861	1511	1511	1276	1142	1344
13 NGP 2012 Slice PSC	553	461	426	406	559	596	625	526	495	433	508	633	563	590
14 GPU 2012 Slice PSC	2257	1880	1738	1657	2279	2432	2551	2145	2018	1768	2074	2583	2296	2408
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1498	1498	1496	1466	1420	1421	1419	1420	1420	1448	1448	1434	1435	1425
17 Regional Transfers (Out)	171	174	167	300	508	603	608	539	460	470	472	209	155	170
18 Federal Diversity	-478	-513	-542	-350	-299	-549	-303	-320	-377	-483	-498	-504	-505	-411
19 Total Transfers Out	9969	9466	9154	9612	11473	12562	12814	11664	10844	9932	10301	10197	9649	10286
20 Total Firm Obligations	11115	10611	10217	10642	12186	13403	13391	12506	11807	10899	11268	11275	10760	11462
Hydro Resources (1 Hour.)														
21 Regulated Hydro	16264	13891	13170	12684	15522	15770	15672	14387	13628	12558	13702	16025	14538	16547
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13606	11748	10952	10543	13396	14292	14594	12884	12248	11081	12601	15099	13797	14428
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	0	0	0	0	0
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	100	100	100	100	100	100	100	100	100	100	100	100	100	100
31 Non-Fed CER (Canada)	237	237	237	237	237	237	237	237	237	235	235	235	235	235
32 Transmission Loss Returns	68	57	52	50	69	74	77	65	61	54	63	78	70	73
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1757	1746	1745	1853	1906	2012	2019	1941	1938	1936	1946	1786	1723	1747
38 Total Resources	15363	13494	12697	12396	15302	16304	16613	14825	14186	13017	14546	16885	15520	16175
Reserves & Losses (1 Hour.)														
39 Contingency Reserves (Non-Spinning)	-360	-363	-346	-351	-410	-441	-440	-409	-377	-353	-375	-395	-380	-404
40 Contingency Reserves (Spinning)	390	-363	-346	-351	-410	-441	-440	-409	-377	-353	-375	-395	-380	-404
41 Generation Imbalance Reserves	543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-585	-585
42 Load Following Reserves	-592	-592	-592	-593	-593	-593	-593	-593	-593	-593	-593	-593	-624	-624
43 Federal Transmission Losses	-451	-390	-364	-354	-447	-479	-489	-431	-412	-374	-424	-501	-454	-474
44 Total Reserves & Losses	-2366	-2251	-2192	-2193	-2403	-2497	-2504	-2385	-2301	-2217	-2311	-2427	-2422	-2491

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	12997	11243	10505	10204	12900	13807	14109	12440	11885	10800	12235	14459	13098	13684
<i>46 Total Firm Surplus/Deficit</i>	1883	632	288	-438	714	404	718	-66	78	-99	967	3183	2338	2223

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	157	157	149	178	219	245	254	233	243	183	183	182	186	188
5 Total Firm Non-Utility Obligations	1150	1150	1068	1035	720	849	609	873	994	987	987	1102	1135	1198
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4633	4633	4399	4653	5127	5987	5798	5504	5009	4826	4826	4606	4608	4807
12 GPU 2012 PSC	1361	1361	1494	1557	1965	2168	2213	2075	1906	1547	1547	1309	1171	1377
13 NGP 2012 Slice PSC	540	459	435	402	555	581	625	533	523	441	512	582	501	604
14 GPU 2012 Slice PSC	2204	1875	1774	1640	2265	2369	2551	2173	2133	1798	2090	2375	2042	2466
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1425	1425	1425	1395	1395	1395	1395	1395	1395	1425	1425	1425	1425	1425
17 Regional Transfers (Out)	171	172	168	300	480	578	580	515	427	428	428	171	117	139
18 Federal Diversity	-482	-518	-547	-353	-301	-553	-307	-327	-382	-488	-503	-509	-511	-416
19 Total Transfers Out	9852	9407	9146	9593	11487	12525	12856	11868	11011	9978	10326	9958	9353	10403
20 Total Firm Obligations	11002	10558	10214	10628	12206	13374	13465	12741	12006	10965	11313	11061	10488	11602
Hydro Resources (1 Hour.)														
21 Regulated Hydro	16050	13912	13396	12619	15525	15529	15748	14599	14271	12761	13832	16115	14366	16875
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13393	11769	11178	10479	13399	14051	14671	13097	12891	11284	12731	15189	13626	14756
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	100	100	100	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	235	235	235	235	235	235	235	235	235	234	234	234	234	234
32 Transmission Loss Returns	67	57	54	50	69	72	77	66	65	55	63	72	62	75
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1741	1731	1730	1732	1784	1885	1893	1816	1816	1836	1845	549	484	1648
38 Total Resources	15134	13500	12908	12211	15183	15936	16564	14913	14707	13120	14576	15738	14110	16404
Reserves & Losses (1 Hour.)														
39 Contingency Reserves (Non-Spinning)	-367	-364	-350	-351	-410	-438	-441	-413	-387	-357	-378	-380	-362	-410
40 Contingency Reserves (Spinning)	387	-364	-350	-351	-410	-438	-441	-413	-387	-357	-378	-380	-362	-410
41 Generation Imbalance Reserves	585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-610	-610
42 Load Following Reserves	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-637	-637
43 Federal Transmission Losses	-441	-387	-368	-345	-441	-464	-485	-431	-426	-375	-422	-461	-407	-480
44 Total Reserves & Losses	-2424	-2324	-2278	-2256	-2470	-2550	-2577	-2467	-2409	-2298	-2387	-2431	-2377	-2546

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	12710	11176	10631	9955	12713	13387	13987	12446	12298	10822	12188	13307	11733	13857
<i>46 Total Firm Surplus/Deficit</i>	1708	619	417	-673	506	13	522	-294	293	-142	875	2247	1245	2256

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	0	0	0	0	0	0	0	0	0	0	0
4 Fed. Agencies 2012 PSC	181	181	171	207	257	286	258	233	246	186	186	185	188	191
5 Total Firm Non-Utility Obligations	1174	1174	1090	723	417	549	272	533	657	649	649	765	798	861
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4678	4678	4439	4677	5153	6015	5847	5526	5058	4877	4877	4659	4662	4864
12 GPU 2012 PSC	1395	1395	1531	1534	1936	2135	2210	2075	1908	1554	1554	1319	1184	1387
13 NGP 2012 Slice PSC	544	460	430	408	562	600	629	529	496	436	511	633	562	589
14 GPU 2012 Slice PSC	2218	1876	1753	1665	2295	2447	2565	2160	2025	1779	2085	2581	2294	2405
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1425	1425	1425	1395	1395	1395	1395	1395	1350	1350	1350	1350	1350	1350
17 Regional Transfers (Out)	139	139	141	276	398	496	498	433	386	387	387	171	117	139
18 Federal Diversity	-488	-524	-553	-357	-305	-560	-312	-331	-388	-496	-512	-519	-521	-423
19 Total Transfers Out	9912	9449	9166	9599	11433	12528	12832	11787	10835	9887	10253	10195	9650	10311
20 Total Firm Obligations	11085	10623	10256	10322	11851	13077	13104	12321	11492	10536	10901	10959	10448	11172
Hydro Resources (1 Hour.)														
21 Regulated Hydro	16165	13962	13337	12801	15640	15888	15790	14504	13746	12695	13839	16122	14582	16591
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13507	11820	11119	10660	13514	14410	14712	13001	12365	11218	12738	15196	13842	14472
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	206	206	208	313	346	444	446	381	337	338	338	163	109	131
30 Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	234	234	234	234	234	234	234	234	234	231	231	231	231	231
32 Transmission Loss Returns	67	57	53	51	70	74	78	66	61	54	63	78	70	73
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1641	1630	1628	1732	1784	1887	1892	1815	1767	1758	1767	1607	1544	1568
38 Total Resources	15148	13450	12747	12392	15298	16297	16605	14816	14132	12976	14505	16803	15385	16040
Reserves & Losses (1 Hour.)														
39 Contingency Reserves (Non-Spinning)	-366	-366	-350	-355	-413	-445	-443	-412	-380	-366	-389	-388	-383	-407
40 Contingency Reserves (Spinning)	-390	-366	-350	-355	-413	-445	-443	-412	-380	-366	-389	-388	-383	-407
41 Generation Imbalance Reserves	610	610	610	610	610	610	610	610	610	610	610	610	610	610
42 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
43 Federal Transmission Losses	-440	-384	-362	-350	-443	-474	-485	-427	-406	-368	-418	-495	-448	-468
44 Total Reserves & Losses	-2467	-2363	-2309	-2306	-2516	-2611	-2618	-2498	-2413	-2348	-2442	-2518	-2460	-2529

Loads and Resources - Federal System
PNW Loads and Resource Study
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Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	12681	11088	10438	10086	12782	13686	13987	12319	11720	10628	12063	14286	12925	13511
<i>46 Total Firm Surplus/Deficit</i>	1596	465	183	-236	931	609	883	-2	228	92	1161	3326	2478	2340

**Loads and Resources - Federal System
PNW Loads and Resource Study
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Non-Utility Obligations</u>														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Fed. Agencies 2012 PSC	183	183	174	210	261	290	260	238	249	187	187	187	190	192
5 Total Firm Non-Utility Obligations	836	836	752	726	421	554	275	538	659	650	650	766	799	862
<u>Transfers Out</u>														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4737	4737	4497	4747	5226	6094	5910	5612	5112	4929	4929	4712	4716	4920
12 GPU 2012 PSC	1405	1405	1538	1599	2008	2212	2257	2119	1949	1589	1589	1350	1212	1419
13 NGP 2012 Slice PSC	539	459	434	401	559	584	629	536	524	442	514	581	500	603
14 GPU 2012 Slice PSC	2200	1872	1771	1637	2279	2383	2565	2187	2138	1804	2095	2371	2039	2462
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
17 Regional Transfers (Out)	139	139	141	276	398	496	498	433	386	387	387	171	117	139
18 Federal Diversity	-497	-534	-564	-363	-311	-569	-315	-336	-391	-501	-516	-524	-525	-427
19 Total Transfers Out	9873	9427	9167	9646	11510	12549	12894	11902	11068	10001	10348	10011	9408	10466
20 Total Firm Obligations	10709	10263	9919	10373	11931	13102	13168	12440	11728	10651	10999	10778	10208	11328
<u>Hydro Resources (1 Hour.)</u>														
21 Regulated Hydro	16095	13956	13440	12664	15570	15574	15792	14643	14315	12824	13895	16140	14372	16881
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13437	11813	11222	10523	13443	14096	14715	13140	12934	11348	12794	15214	13632	14762
<u>Other Resources</u>														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	131	131	133	268	301	399	401	336	337	338	338	163	109	131
30 Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	231	231	231	231	231	231	231	231	231	228	228	228	228	228
32 Transmission Loss Returns	67	57	54	50	69	72	78	66	65	55	64	72	62	75
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1562	1552	1551	1683	1736	1837	1844	1768	1767	1755	1764	468	403	1567
38 Total Resources	14999	13366	12773	12206	15179	15933	16559	14908	14702	13103	14558	15682	14035	16329
<u>Reserves & Losses (1 Hour.)</u>														
39 Contingency Reserves (Non-Spinning)	-367	-367	-353	-354	-414	-442	-445	-416	-390	-370	-391	-374	-365	-413
40 Contingency Reserves (Spinning)	-391	-367	-353	-354	-414	-442	-445	-416	-390	-370	-391	-374	-365	-413
41 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
42 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
43 Federal Transmission Losses	-435	-381	-362	-343	-439	-462	-483	-430	-425	-372	-420	-459	-404	-478
44 Total Reserves & Losses	-2463	-2362	-2316	-2298	-2513	-2593	-2619	-2509	-2451	-2359	-2448	-2453	-2380	-2550

Loads and Resources - Federal System
PNW Loads and Resource Study
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	12537	11003	10457	9908	12666	13340	13940	12400	12251	10744	12110	13229	11655	13779
<i>46 Total Firm Surplus/Deficit</i>	1828	741	538	-465	735	237	772	-41	523	93	1112	2452	1447	2451

**Loads and Resources - Federal System
PNW Loads and Resource Study
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	656	656	581	518	161	264	15	301	411	463	463	580	609	670
3 DSI Obligation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Fed. Agencies 2012 PSC	185	185	175	212	264	293	262	236	250	188	188	188	191	193
5 Total Firm Non-Utility Obligations	841	841	756	729	424	556	277	537	661	651	651	767	801	863
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4790	4790	4546	4778	5257	6127	5944	5574	5141	4957	4957	4740	4743	4948
12 GPU 2012 PSC	1437	1437	1573	1580	1984	2184	2229	2029	1925	1571	1571	1335	1199	1403
13 NGP 2012 Slice PSC	543	459	429	408	566	604	633	533	498	438	513	632	562	589
14 GPU 2012 Slice PSC	2214	1872	1750	1664	2311	2464	2582	2176	2032	1787	2093	2580	2293	2403
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
17 Regional Transfers (Out)	139	139	141	276	316	414	416	351	345	346	346	171	117	139
18 Federal Diversity	-502	-540	-570	-366	-313	-573	-317	-335	-394	-504	-520	-527	-529	-430
19 Total Transfers Out	9970	9507	9219	9690	11471	12569	12837	11680	10897	9945	10310	10281	9735	10402
20 Total Firm Obligations	10811	10348	9975	10420	11895	13126	13113	12217	11558	10596	10962	11048	10536	11265
Hydro Resources (1 Hour.)														
21 Regulated Hydro	16171	13968	13343	12806	15646	15895	15796	14510	13752	12700	13844	16129	14588	16597
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13513	11826	11125	10666	13520	14416	14718	13007	12371	11224	12743	15203	13848	14478
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	131	131	133	268	301	399	401	336	337	338	338	163	109	131
30 Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	228	228	228	228	228	228	228	228	228	226	226	226	226	226
32 Transmission Loss Returns	67	57	53	51	70	75	78	66	62	54	64	78	70	73
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1560	1549	1547	1681	1734	1836	1842	1765	1761	1753	1762	1602	1539	1563
38 Total Resources	15073	13375	12672	12347	15253	16253	16560	14772	14132	12977	14505	16805	15386	16041
Reserves & Losses (1 Hour.)														
39 Contingency Reserves (Non-Spinning)	-369	-369	-353	-357	-416	-448	-446	-415	-383	-369	-391	-391	-386	-410
40 Contingency Reserves (Spinning)	-393	-393	-353	-357	-416	-448	-446	-415	-383	-369	-391	-391	-386	-410
41 Generation Imbalance Reserves	610	610	610	610	610	610	610	610	610	610	610	610	610	610
42 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
43 Federal Transmission Losses	-437	-382	-359	-348	-441	-473	-483	-425	-406	-368	-418	-495	-448	-468
44 Total Reserves & Losses	-2470	-2366	-2312	-2310	-2521	-2616	-2622	-2502	-2418	-2354	-2448	-2524	-2466	-2535

Loads and Resources - Federal System
PNW Loads and Resource Study
2019 - 2020 Operating Year
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Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	12603	11009	10360	10037	12733	13637	13938	12270	11714	10623	12058	14281	12920	13506
<i>46 Total Firm Surplus/Deficit</i>	1792	661	385	-382	838	511	825	53	156	27	1096	3233	2384	2241

**Loads and Resources - Federal System
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Fed. Agencies 2012 PSC	186	186	176	213	265	294	264	242	252	190	190	189	193	195
5 Total Firm Non-Utility Obligations	838	838	754	729	425	558	278	542	663	653	653	769	802	865
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4816	4816	4569	4814	5294	6169	5987	5683	5176	4991	4991	4775	4780	4986
12 GPU 2012 PSC	1420	1420	1554	1610	2020	2224	2270	2131	1961	1601	1601	1360	1223	1430
13 NGP 2012 Slice PSC	539	458	434	401	563	588	633	540	526	444	515	581	499	603
14 GPU 2012 Slice PSC	2199	1871	1770	1636	2296	2399	2581	2204	2146	1812	2103	2370	2037	2461
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
17 Regional Transfers (Out)	139	139	141	276	316	414	416	351	345	346	346	171	117	139
18 Federal Diversity	-505	-543	-573	-368	-315	-577	-319	-340	-396	-507	-523	-530	-532	-433
19 Total Transfers Out	9958	9511	9245	9718	11524	12567	12916	11919	11108	10037	10384	10076	9474	10536
20 Total Firm Obligations	10797	10350	9999	10447	11949	13125	13195	12460	11771	10689	11036	10845	10276	11401
Hydro Resources (1 Hour.)														
21 Regulated Hydro	16101	13962	13446	12669	15575	15580	15797	14648	14319	12828	13899	16146	14376	16885
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	13443	11819	11228	10529	13449	14102	14719	13145	12938	11352	12798	15220	13636	14766
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	131	131	133	268	301	399	401	336	337	338	338	163	109	131
30 Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	226	226	226	226	226	226	226	226	226	223	223	223	223	223
32 Transmission Loss Returns	67	57	54	50	70	73	78	67	65	55	64	72	62	75
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1557	1547	1546	1678	1731	1832	1840	1763	1763	1751	1759	463	398	1562
38 Total Resources	15000	13367	12774	12207	15180	15935	16559	14908	14701	13102	14557	15683	14034	16328
Reserves & Losses (1 Hour.)														
39 Contingency Reserves (Non-Spinning)	-394	-370	-356	-357	-417	-445	-447	-418	-392	-372	-393	-377	-367	-415
40 Contingency Reserves (Spinning)	394	-370	-356	-357	-417	-445	-447	-418	-392	-372	-393	-377	-367	-415
41 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
42 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
43 Federal Transmission Losses	-434	-381	-362	-343	-439	-462	-483	-430	-424	-372	-420	-458	-404	-477
44 Total Reserves & Losses	-2468	-2368	-2321	-2304	-2519	-2599	-2624	-2513	-2455	-2362	-2452	-2458	-2384	-2554

Loads and Resources - Federal System
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	12532	10998	10453	9903	12662	13335	13936	12395	12247	10740	12106	13224	11650	13774
<i>46 Total Firm Surplus/Deficit</i>	1735	649	453	-544	713	211	741	-65	476	50	1069	2379	1374	2373

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Monthly Federal System
Loads & Resources
120-Hour Capacity in Megawatts

For OY 2012 – 2021

Power Services

Reports Powered by:



Loads and Resources Information System

**Loads and Resources - Federal System
PNW Loads and Resource Study
2011 - 2012 Operating Year
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5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	132	132	125	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	0	0	0	141	171	194	188	170	177	142	142	133	135	140
5 Total Firm Non-Utility Obligations	1125	1125	1044	998	672	798	543	811	929	946	946	1053	1085	1150
Transfers Out														
6 NGP 2002 PSC	3674	3674	3763	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	2539	2539	2489	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	759	570	572	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	1265	949	953	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	0	0	0	4360	4819	5630	5453	5116	4703	4531	4531	4307	4319	4510
12 GPU 2012 PSC	0	0	0	1468	1847	2039	2079	1890	1793	1459	1459	1224	1096	1293
13 NGP 2012 Slice PSC	0	0	0	364	487	477	518	437	417	303	272	560	494	518
14 GPU 2012 Slice PSC	0	0	0	1487	1988	1947	2114	1783	1700	1236	1110	2283	2015	2114
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1785	1785	1778	1633	1586	1587	1585	1586	1586	1614	1614	1678	1678	1680
17 Regional Transfers (Out)	1265	1266	493	475	682	778	833	764	685	771	771	509	490	204
18 Federal Diversity	-817	-884	-933	-1179	-1084	-1068	-1125	-1133	-1038	-1004	-1077	-1011	-864	-782
19 Total Transfers Out	10470	9900	9114	8609	10326	11390	11458	10445	9845	8910	8680	9550	9228	9537
20 Total Firm Obligations	11595	11025	10158	9607	10998	12188	12001	11255	10773	9856	9626	10603	10313	10687
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14131	11237	11289	11272	13500	12812	12946	12042	11509	9438	8450	14061	12666	14615
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11473	9094	9071	9132	11374	11334	11868	10539	10129	7961	7349	13135	11926	12495
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	22	22	19	14	18
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	592	592	297	179	479	422	422	422	422	422	422	122	122	122
31 Non-Fed CER (Canada)	249	249	249	249	249	249	249	249	249	245	245	245	245	245
32 Transmission Loss Returns	0	0	0	45	60	59	64	54	51	37	33	69	61	64
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	2193	2193	1902	1939	2288	2331	2339	2263	2262	2274	2270	1828	1760	1788
38 Total Resources	13666	11287	10972	11071	13663	13665	14208	12803	12391	10235	9619	14963	13686	14283
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	358	-324	-318	-331	-380	-398	-400	-375	-346	-318	-309	-356	-353	-376
40 Contingency Reserves (Spinning)	358	-324	-318	-331	-380	-398	-400	-375	-346	-318	-309	-356	-353	-376
41 Generation Imbalance Reserves	311	-311	-338	-290	-290	-290	-290	-290	-294	-320	-320	-320	-320	-320
42 Load Following Reserves	-415	-415	-432	-403	-403	-403	-403	-403	-408	-419	-419	-419	-419	-419
43 Federal Transmission Losses	-409	-332	-320	-325	-409	-408	-426	-381	-368	-297	-277	-453	-410	-429
44 Total Reserves & Losses	-1852	-1706	-1726	-1681	-1863	-1897	-1919	-1824	-1762	-1671	-1633	-1903	-1855	-1919

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11814	9581	9246	9389	11799	11768	12288	10979	10629	8564	7986	13060	11831	12364
<i>46 Total Firm Surplus/Deficit</i>	219	-1444	-912	-218	801	-420	288	-276	-144	-1292	-1640	2457	1518	1677

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	132	132	125	147	179	202	190	175	180	144	144	134	137	141
5 Total Firm Non-Utility Obligations	125	1125	1044	1004	679	806	545	816	931	947	947	1055	1087	1152
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4388	4388	4165	4437	4898	5715	5533	5256	4781	4608	4608	4391	4401	4638
12 GPU 2012 PSC	1312	1312	1441	1510	1903	2102	2144	2011	1847	1500	1500	1261	1129	1331
13 NGP 2012 Slice PSC	476	387	371	359	487	478	516	435	413	302	273	498	433	511
14 GPU 2012 Slice PSC	1942	1580	1513	1463	1986	1950	2106	1776	1687	1233	1112	2031	1766	2085
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1687	1687	1685	1640	1593	1594	1390	1391	1390	1419	1419	1482	1483	1484
17 Regional Transfers (Out)	171	172	168	300	507	603	608	540	460	469	472	209	191	203
18 Federal Diversity	-738	-798	-858	-1193	-1098	-1080	-1137	-1155	-1050	-1015	-1089	-1024	-875	-798
19 Total Transfers Out	9237	8728	8486	8515	10277	11361	11161	10254	9529	8516	8295	8848	8527	9455
20 Total Firm Obligations	10362	9853	9530	9519	10956	12167	11706	11070	10459	9464	9242	9903	9614	10607
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14303	12014	11646	11268	13599	12998	13083	12194	11624	9567	8602	14018	12639	14623
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11646	9871	9428	9128	11473	11520	12005	10691	10243	8091	7501	13092	11899	12503
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	22	22	19	14	18
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	122	122	145	181	481	458	458	458	458	458	458	158	158	158
31 Non-Fed CER (Canada)	245	245	245	245	245	245	245	245	245	239	239	239	239	239
32 Transmission Loss Returns	59	48	46	44	60	59	63	54	51	37	34	61	53	63
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1778	1767	1791	1936	2286	2363	2371	2295	2293	2304	2300	720	653	1817
38 Total Resources	13423	11638	11219	11064	13759	13883	14376	12986	12537	10394	9801	13812	12551	14320
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	-362	-336	-325	-331	-382	-400	-401	-377	-347	-319	-311	-339	-336	-376
40 Contingency Reserves (Spinning)	362	-336	-325	-331	-382	-400	-401	-377	-347	-319	-311	-339	-336	-376
41 Generation Imbalance Reserves	350	-350	-353	-353	-353	-387	-387	-396	-396	-396	-396	-396	-396	-399
42 Load Following Reserves	-433	-433	-436	-438	-438	-466	-466	-470	-470	-470	-470	-470	-470	-474
43 Federal Transmission Losses	-399	-341	-328	-322	-409	-410	-426	-381	-368	-298	-279	-411	-369	-425
44 Total Reserves & Losses	-1906	-1796	-1765	-1775	-1964	-2063	-2081	-2000	-1928	-1802	-1766	-1954	-1907	-2050

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11518	9841	9454	9288	11795	11820	12295	10986	10609	8592	8035	11858	10644	12270
<i>46 Total Firm Surplus/Deficit</i>	1156	-12	-76	-231	839	-346	589	-83	150	-871	-1207	1955	1030	1663

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	134	134	126	149	181	204	203	186	192	152	152	144	146	150
5 Total Firm Non-Utility Obligations	127	1127	1045	1006	681	808	558	826	943	955	955	1064	1096	1161
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4510	4510	4292	4525	4996	5841	5652	5340	4880	4698	4698	4472	4471	4664
12 GPU 2012 PSC	1349	1349	1483	1496	1887	2083	2126	1995	1832	1486	1486	1250	1119	1319
13 NGP 2012 Slice PSC	474	378	367	353	485	478	513	432	410	301	269	551	491	503
14 GPU 2012 Slice PSC	1936	1540	1496	1439	1980	1952	2095	1762	1674	1227	1097	2247	2002	2054
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1500	1500	1498	1452	1406	1407	1405	1406	1406	1434	1434	1497	1498	1499
17 Regional Transfers (Out)	171	172	168	300	507	603	608	540	460	469	472	209	156	169
18 Federal Diversity	-753	-814	-877	-1216	-1120	-1104	-1164	-1175	-1073	-1036	-1111	-1043	-889	-804
19 Total Transfers Out	9187	8634	8426	8348	10141	11261	11234	10298	9588	8579	8346	9182	8846	9405
20 Total Firm Obligations	10313	9761	9472	9355	10823	12069	11793	11124	10532	9534	9301	10246	9943	10566
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14413	11959	11695	11325	13753	13130	13148	12230	11667	9634	8628	14140	12888	14604
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11756	9816	9477	9184	11627	11652	12070	10727	10287	8157	7527	13214	12148	12485
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	22	22	19	14	18
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	158	158	181	123	373	350	350	350	350	350	350	100	100	100
31 Non-Fed CER (Canada)	239	239	239	239	239	239	239	239	239	238	238	238	238	238
32 Transmission Loss Returns	58	46	45	43	60	59	63	53	51	37	33	68	60	62
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1807	1795	1821	1871	2172	2249	2257	2181	2179	2195	2191	1798	1731	1757
38 Total Resources	13563	11611	11297	11056	13799	13901	14327	12908	12466	10352	9718	15011	13879	14242
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	-363	-335	-325	-332	-384	-403	-403	-377	-348	-321	-311	-357	-356	-375
40 Contingency Reserves (Spinning)	363	-335	-325	-332	-384	-403	-403	-377	-348	-321	-311	-357	-356	-375
41 Generation Imbalance Reserves	411	-411	-411	-424	-424	-424	-424	-424	-424	-427	-427	-427	-470	-470
42 Load Following Reserves	-486	-486	-486	-502	-502	-502	-502	-503	-503	-504	-504	-504	-532	-532
43 Federal Transmission Losses	-400	-336	-327	-317	-406	-408	-422	-376	-363	-294	-273	-448	-408	-418
44 Total Reserves & Losses	-2024	-1905	-1875	-1906	-2099	-2138	-2153	-2058	-1987	-1867	-1828	-2094	-2120	-2170

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11538	9706	9422	9150	11700	11763	12175	10851	10480	8485	7890	12917	11759	12072
<i>46 Total Firm Surplus/Deficit</i>	1225	-55	-49	-205	877	-306	382	-274	-52	-1049	-1411	2671	1816	1507

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	143	143	135	160	196	220	216	198	205	160	160	154	156	160
5 Total Firm Non-Utility Obligations	1136	1136	1054	1017	697	824	571	839	956	963	963	1074	1106	1171
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4540	4540	4314	4571	5044	5894	5706	5416	4928	4747	4747	4524	4525	4721
12 GPU 2012 PSC	1337	1337	1470	1533	1935	2136	2180	2044	1878	1524	1524	1285	1150	1354
13 NGP 2012 Slice PSC	471	375	358	348	483	477	511	429	409	295	265	494	419	502
14 GPU 2012 Slice PSC	1922	1529	1459	1419	1969	1944	2085	1752	1667	1205	1083	2016	1710	2049
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1514	1514	1512	1466	1420	1421	1419	1420	1420	1448	1448	1496	1496	1498
17 Regional Transfers (Out)	171	174	167	300	508	603	608	540	460	469	472	209	155	169
18 Federal Diversity	-759	-821	-883	-1228	-1132	-1115	-1176	-1192	-1084	-1046	-1122	-1055	-900	-813
19 Total Transfers Out	9196	8647	8396	8409	10226	11360	11333	10409	9678	8642	8418	8969	8557	9480
20 Total Firm Obligations	10331	9783	9450	9426	10923	12184	11904	11248	10634	9606	9381	10043	9663	10651
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14491	12042	11678	11359	13833	13202	13215	12315	11766	9654	8685	14164	12624	14703
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11833	9899	9461	9218	11707	11724	12137	10812	10385	8178	7584	13238	11884	12583
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	22	22	19	14	18
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	100	100	100	100	100	100	100	100	100	100	100	100	100	100
31 Non-Fed CER (Canada)	238	238	238	238	238	238	238	238	238	237	237	237	237	237
32 Transmission Loss Returns	58	46	44	43	59	59	63	53	50	36	33	61	52	62
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1748	1736	1738	1846	1898	1998	2006	1930	1928	1943	1939	660	591	1756
38 Total Resources	13581	11635	11198	11065	13604	13722	14143	12742	12313	10121	9523	13897	12475	14340
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	-365	-337	-325	-332	-385	-404	-404	-379	-349	-321	-312	-341	-335	-377
40 Contingency Reserves (Spinning)	365	-337	-325	-332	-385	-404	-404	-379	-349	-321	-312	-341	-335	-377
41 Generation Imbalance Reserves	470	-470	-470	-481	-481	-481	-482	-486	-486	-486	-486	-486	-539	-539
42 Load Following Reserves	-532	-532	-532	-535	-535	-535	-537	-555	-555	-555	-555	-555	-582	-582
43 Federal Transmission Losses	-397	-334	-320	-314	-396	-399	-413	-367	-354	-283	-263	-408	-358	-418
44 Total Reserves & Losses	-2127	-2008	-1971	-1995	-2182	-2222	-2240	-2165	-2094	-1965	-1928	-2131	-2150	-2292

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11454	9627	9227	9070	11422	11500	11903	10576	10219	8156	7595	11766	10325	12047
<i>46 Total Firm Surplus/Deficit</i>	1123	-155	-223	-356	499	-685	-1.3	-672	-415	-1450	-1786	1723	662	1396

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	153	153	144	172	212	237	223	201	211	164	164	159	161	165
5 Total Firm Non-Utility Obligations	1146	1146	1063	1029	712	841	577	841	963	967	967	1079	1111	1175
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4594	4594	4361	4613	5088	5942	5752	5391	4968	4785	4785	4565	4564	4761
12 GPU 2012 PSC	1372	1372	1507	1520	1918	2118	2162	1964	1861	1511	1511	1276	1142	1344
13 NGP 2012 Slice PSC	468	371	355	343	478	474	509	428	405	292	261	553	479	503
14 GPU 2012 Slice PSC	1911	1515	1447	1401	1950	1933	2077	1748	1654	1193	1065	2255	1954	2053
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1498	1498	1496	1466	1420	1421	1419	1420	1420	1448	1448	1434	1435	1425
17 Regional Transfers (Out)	171	174	167	300	508	603	608	539	460	470	472	209	155	170
18 Federal Diversity	-768	-830	-892	-1242	-1146	-1128	-1188	-1191	-1094	-1055	-1132	-1065	-908	-821
19 Total Transfers Out	9248	8694	8442	8402	10215	11362	11339	10299	9673	8643	8410	9227	8820	9435
20 Total Firm Obligations	10393	9840	9505	9431	10928	12203	11917	11140	10636	9611	9377	10306	9931	10610
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14559	12095	11741	11423	13895	13305	13333	12424	11828	9719	8719	14408	12850	14795
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11901	9952	9523	9282	11769	11827	12256	10921	10448	8242	7617	13482	12109	12675
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	12	12	14	18	20	23	24	23	23	0	0	0	0	0
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	100	100	100	100	100	100	100	100	100	100	100	100	100	100
31 Non-Fed CER (Canada)	237	237	237	237	237	237	237	237	237	235	235	235	235	235
32 Transmission Loss Returns	58	46	44	42	59	59	63	53	50	36	32	68	59	62
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1747	1735	1736	1845	1896	1997	2005	1929	1927	1919	1915	1776	1712	1737
38 Total Resources	13648	11687	11259	11128	13665	13824	14260	12850	12375	10161	9532	15258	13822	14412
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	-365	-337	-326	-333	-386	-405	-405	-380	-350	-312	-303	-371	-355	-378
40 Contingency Reserves (Spinning)	365	-337	-326	-333	-386	-405	-405	-380	-350	-312	-303	-371	-355	-378
41 Generation Imbalance Reserves	543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-585	-585
42 Load Following Reserves	-592	-592	-592	-593	-593	-593	-593	-593	-593	-593	-593	-593	-624	-624
43 Federal Transmission Losses	-395	-331	-317	-312	-394	-398	-412	-367	-353	-281	-261	-448	-399	-417
44 Total Reserves & Losses	-2260	-2140	-2104	-2115	-2302	-2345	-2360	-2263	-2190	-2042	-2003	-2326	-2318	-2382

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11388	9547	9156	9013	11363	11479	11901	10587	10185	8119	7530	12932	11504	12030
<i>46 Total Firm Surplus/Deficit</i>	994	-293	-349	-418	435	-724	-16	-553	-451	-1491	-1848	2625	1573	1419

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	340	340	340	340	340	340	340	340	340	340	340
4 Fed. Agencies 2012 PSC	157	157	149	178	219	245	254	233	243	183	183	182	186	188
5 Total Firm Non-Utility Obligations	1150	1150	1068	1035	720	849	609	873	994	987	987	1102	1135	1198
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4633	4633	4399	4653	5127	5987	5798	5504	5009	4826	4826	4606	4608	4807
12 GPU 2012 PSC	1361	1361	1494	1557	1965	2168	2213	2075	1906	1547	1547	1309	1171	1377
13 NGP 2012 Slice PSC	465	369	354	344	475	471	510	428	396	291	263	486	424	500
14 GPU 2012 Slice PSC	1895	1507	1443	1402	1940	1920	2082	1746	1616	1189	1074	1981	1732	2042
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1425	1425	1425	1395	1395	1395	1395	1395	1395	1425	1425	1425	1425	1425
17 Regional Transfers (Out)	171	172	168	300	480	578	580	515	427	428	428	171	117	139
18 Federal Diversity	-775	-838	-901	-1252	-1155	-1136	-1202	-1217	-1107	-1066	-1144	-1077	-919	-830
19 Total Transfers Out	9175	8630	8381	8399	10228	11384	11377	10446	9642	8641	8420	8900	8558	9461
20 Total Firm Obligations	10325	9781	9448	9434	10947	12233	11986	11319	10636	9628	9407	10003	9693	10659
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14529	12098	11763	11447	13917	13315	13434	12489	11718	9752	8813	14171	12832	14779
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11871	9956	9545	9307	11791	11837	12356	10987	10338	8275	7711	13245	12092	12660
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	206	206	208	313	346	444	446	381	382	413	413	238	184	206
30 Regional Transfers (In)	100	100	100	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	235	235	235	235	235	235	235	235	235	234	234	234	234	234
32 Transmission Loss Returns	57	46	44	42	59	58	63	53	49	36	33	60	52	62
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1732	1720	1720	1725	1774	1872	1879	1804	1801	1818	1814	537	475	1635
38 Total Resources	13603	11676	11265	11032	13566	13709	14235	12790	12138	10093	9526	13782	12567	14295
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	-365	-337	-326	-334	-387	-406	-408	-382	-350	-313	-305	-352	-339	-379
40 Contingency Reserves (Spinning)	365	-337	-326	-334	-387	-406	-408	-382	-350	-313	-305	-352	-339	-379
41 Generation Imbalance Reserves	585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-610	-610
42 Load Following Reserves	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-637	-637
43 Federal Transmission Losses	-391	-328	-315	-307	-388	-392	-409	-362	-343	-277	-258	-398	-356	-412
44 Total Reserves & Losses	-2330	-2212	-2176	-2183	-2371	-2413	-2434	-2336	-2251	-2112	-2077	-2310	-2282	-2417

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11273	9464	9088	8848	11195	11296	11801	10454	9887	7981	7449	11472	10285	11878
<i>46 Total Firm Surplus/Deficit</i>	948	-317	-360	-585	247	-937	-185	-865	-749	-1647	-1958	1469	591	1219

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	340	340	340	0	0	0	0	0	0	0	0	0	0	0
4 Fed. Agencies 2012 PSC	181	181	171	207	257	286	258	233	246	186	186	185	188	191
5 Total Firm Non-Utility Obligations	1174	1174	1090	723	417	549	272	533	657	649	649	765	798	861
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4678	4678	4439	4677	5153	6015	5847	5526	5058	4877	4877	4659	4662	4864
12 GPU 2012 PSC	1395	1395	1531	1534	1936	2135	2210	2075	1908	1554	1554	1319	1184	1387
13 NGP 2012 Slice PSC	463	367	353	346	482	478	513	432	407	295	264	552	479	503
14 GPU 2012 Slice PSC	1888	1497	1441	1410	1965	1949	2092	1763	1661	1205	1077	2254	1953	2050
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1425	1425	1425	1395	1395	1395	1395	1395	1350	1350	1350	1350	1350	1350
17 Regional Transfers (Out)	139	139	141	276	398	496	498	433	386	387	387	171	117	139
18 Federal Diversity	-784	-848	-911	-1267	-1171	-1150	-1221	-1230	-1126	-1085	-1163	-1097	-936	-845
19 Total Transfers Out	9204	8654	8419	8372	10158	11317	11333	10394	9643	8584	8346	9209	8809	9448
20 Total Firm Obligations	10378	9828	9509	9095	10575	11867	11606	10927	10301	9232	8995	9974	9607	10309
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14533	12092	11794	11540	14012	13423	13451	12541	11946	9856	8855	14505	12894	14839
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11876	9949	9576	9400	11886	11945	12373	11038	10565	8379	7754	13579	12154	12720
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	206	206	208	313	346	444	446	381	337	338	338	163	109	131
30 Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	234	234	234	234	234	234	234	234	234	231	231	231	231	231
32 Transmission Loss Returns	57	45	44	43	60	59	63	54	50	37	33	68	59	62
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1631	1619	1619	1724	1774	1872	1878	1803	1756	1740	1736	1597	1533	1557
38 Total Resources	13506	11568	11195	11124	13661	13817	14251	12842	12321	10119	9491	15176	13687	14277
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	-366	-338	-328	-336	-390	-409	-409	-383	-354	-325	-316	-364	-358	-381
40 Contingency Reserves (Spinning)	366	-338	-328	-336	-390	-409	-409	-383	-354	-325	-316	-364	-358	-381
41 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
42 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
43 Federal Transmission Losses	-386	-323	-311	-308	-390	-394	-408	-363	-347	-275	-255	-442	-393	-411
44 Total Reserves & Losses	-2366	-2247	-2214	-2228	-2416	-2459	-2473	-2376	-2302	-2172	-2134	-2417	-2356	-2421

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11141	9321	8981	8896	11245	11358	11778	10465	10020	7946	7357	12759	11331	11857
<i>46 Total Firm Surplus/Deficit</i>	763	-507	-527	-199	669	-509	173	-462	-281	-1286	-1638	2785	1724	1548

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Fed. Agencies 2012 PSC	183	183	174	210	261	290	260	238	249	187	187	187	190	192
5 Total Firm Non-Utility Obligations	836	836	752	726	421	554	275	538	659	650	650	766	799	862
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4737	4737	4497	4747	5226	6094	5910	5612	5112	4929	4929	4712	4716	4920
12 GPU 2012 PSC	1405	1405	1538	1599	2008	2212	2257	2119	1949	1589	1589	1350	1212	1419
13 NGP 2012 Slice PSC	464	369	353	343	479	474	514	431	398	293	265	485	424	500
14 GPU 2012 Slice PSC	1893	1505	1441	1400	1954	1935	2097	1760	1622	1195	1080	1978	1728	2038
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
17 Regional Transfers (Out)	139	139	141	276	398	496	498	433	386	387	387	171	117	139
18 Federal Diversity	-799	-864	-929	-1290	-1193	-1169	-1233	-1248	-1136	-1094	-1174	-1107	-945	-853
19 Total Transfers Out	9188	8641	8391	8424	10223	11392	11392	10459	9681	8650	8427	8938	8603	9513
20 Total Firm Obligations	10024	9476	9143	9151	10644	11945	11667	10997	10340	9300	9077	9704	9402	10375
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14573	12143	11807	11491	13962	13360	13477	12533	11761	9815	8876	14196	12838	14785
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11915	10000	9589	9351	11836	11882	12400	11030	10381	8339	7775	13270	12098	12666
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	131	131	133	268	301	399	401	336	337	338	338	163	109	131
30 Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	231	231	231	231	231	231	231	231	231	228	228	228	228	228
32 Transmission Loss Returns	57	46	44	42	59	59	64	53	49	36	33	60	52	62
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1553	1541	1541	1676	1726	1823	1830	1755	1752	1737	1733	456	394	1554
38 Total Resources	13468	11541	11129	11027	13562	13706	14230	12785	12133	10076	9508	13726	12492	14220
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	-368	-341	-329	-337	-390	-410	-411	-385	-352	-326	-318	-345	-342	-382
40 Contingency Reserves (Spinning)	368	-341	-329	-337	-390	-410	-411	-385	-352	-326	-318	-345	-342	-382
41 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
42 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
43 Federal Transmission Losses	-385	-322	-309	-305	-386	-390	-407	-361	-341	-274	-255	-395	-354	-409
44 Total Reserves & Losses	-2368	-2250	-2215	-2226	-2414	-2456	-2476	-2378	-2293	-2173	-2138	-2332	-2285	-2420

Loads and Resources - Federal System
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11100	9291	8915	8801	11148	11249	11754	10407	9840	7903	7371	11393	10206	11800
<i>46 Total Firm Surplus/Deficit</i>	1076	-186	-228	-350	503	-696	87	-590	-500	-1397	-1706	1689	804	1425

**Loads and Resources - Federal System
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	656	656	581	518	161	264	15	301	411	463	463	580	609	670
3 DSI Obligation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Fed. Agencies 2012 PSC	185	185	175	212	264	293	262	236	250	188	188	188	191	193
5 Total Firm Non-Utility Obligations	841	841	756	729	424	556	277	537	661	651	651	767	801	863
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4790	4790	4546	4778	5257	6127	5944	5574	5141	4957	4957	4740	4743	4948
12 GPU 2012 PSC	1437	1437	1573	1580	1984	2184	2229	2029	1925	1571	1571	1335	1199	1403
13 NGP 2012 Slice PSC	462	366	352	345	486	482	517	436	409	297	266	552	478	502
14 GPU 2012 Slice PSC	1884	1494	1438	1409	1982	1965	2109	1780	1668	1212	1085	2253	1952	2049
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
17 Regional Transfers (Out)	139	139	141	276	316	414	416	351	345	346	346	171	117	139
18 Federal Diversity	-807	-872	-938	-1300	-1202	-1177	-1243	-1244	-1144	-1102	-1182	-1115	-951	-859
19 Total Transfers Out	9254	8703	8462	8439	10173	11345	11323	10276	9694	8632	8393	9286	8888	9532
20 Total Firm Obligations	10095	9544	9218	9168	10597	11901	11599	10813	10355	9283	9045	10053	9689	10396
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14539	12097	11800	11546	14018	13429	13457	12547	11951	9861	8861	14512	12900	14845
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11882	9955	9582	9405	11892	11951	12380	11045	10571	8384	7760	13586	12160	12726
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	131	131	133	268	301	399	401	336	337	338	338	163	109	131
30 Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	228	228	228	228	228	228	228	228	228	226	226	226	226	226
32 Transmission Loss Returns	57	45	44	43	60	60	64	54	51	37	33	68	59	62
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1550	1538	1538	1673	1724	1821	1828	1753	1750	1735	1732	1592	1528	1552
38 Total Resources	13431	11493	11120	11078	13616	13772	14207	12797	12321	10120	9492	15178	13688	14278
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	-369	-341	-331	-339	-392	-412	-412	-386	-357	-328	-319	-368	-361	-384
40 Contingency Reserves (Spinning)	369	-341	-331	-339	-392	-412	-412	-386	-357	-328	-319	-368	-361	-384
41 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
42 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
43 Federal Transmission Losses	-383	-320	-309	-307	-388	-392	-407	-361	-347	-275	-255	-442	-393	-411
44 Total Reserves & Losses	-2369	-2250	-2217	-2232	-2420	-2463	-2478	-2381	-2307	-2178	-2139	-2424	-2362	-2426

Loads and Resources - Federal System
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11062	9243	8903	8847	11196	11309	11730	10417	10014	7942	7352	12754	11326	11852
<i>46 Total Firm Surplus/Deficit</i>	967	-302	-315	-322	599	-592	130	-397	-341	-1342	-1692	2701	1638	1456

**Loads and Resources - Federal System
PNW Loads and Resource Study
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5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
1 Fed. Agencies 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 USBR Obligation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
3 DSI Obligation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Fed. Agencies 2012 PSC	186	186	176	213	265	294	264	242	252	190	190	189	193	195
5 Total Firm Non-Utility Obligations	838	838	754	729	425	558	278	542	663	653	653	769	802	865
Transfers Out														
6 NGP 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GPU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 NGP 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GPU 2002 Slice PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 IOU 2002 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 NGP 2012 PSC	4816	4816	4569	4814	5294	6169	5987	5683	5176	4991	4991	4775	4780	4986
12 GPU 2012 PSC	1420	1420	1554	1610	2020	2224	2270	2131	1961	1601	1601	1360	1223	1430
13 NGP 2012 Slice PSC	464	369	353	343	483	478	518	436	399	295	267	485	423	499
14 GPU 2012 Slice PSC	1891	1504	1440	1399	1971	1951	2113	1777	1630	1203	1088	1977	1727	2037
15 IOU 2012 PSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Exports	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
17 Regional Transfers (Out)	139	139	141	276	316	414	416	351	345	346	346	171	117	139
18 Federal Diversity	-812	-878	-943	-1308	-1209	-1184	-1251	-1264	-1150	-1108	-1188	-1122	-957	-864
19 Total Transfers Out	9268	8720	8463	8484	10225	11402	11402	10464	9711	8678	8454	8996	8663	9577
20 Total Firm Obligations	10107	9558	9218	9213	10650	11960	11681	11005	10374	9331	9107	9765	9465	10442
Hydro Resources (120 Hour.)														
21 Regulated Hydro	14579	12149	11812	11497	13968	13367	13482	12537	11765	9819	8880	14202	12843	14789
22 Independent Hydro	606	618	552	611	579	388	330	380	535	585	704	830	895	665
23 Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
24 Total Hydro Resources	11921	10006	9594	9357	11842	11888	12404	11035	10385	8343	7779	13276	12102	12670
Other Resources														
25 Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Renewables	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Imports	131	131	133	268	301	399	401	336	337	338	338	163	109	131
30 Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Non-Fed CER (Canada)	226	226	226	226	226	226	226	226	226	223	223	223	223	223
32 Transmission Loss Returns	57	46	44	42	60	59	64	54	49	37	33	60	52	62
33 Large Thermal	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
34 Non-Utility Generation	3.5	3.5	3	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1	3.2
35 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Augmentation Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Total Other Resources	1548	1536	1536	1671	1721	1819	1826	1751	1747	1732	1729	451	389	1549
38 Total Resources	13469	11542	11130	11027	13563	13707	14230	12785	12132	10075	9507	13726	12491	14219
Reserves & Losses (120 Hour.)														
39 Contingency Reserves (Non-Spinning)	-371	-344	-332	-340	-393	-413	-413	-388	-354	-328	-320	-348	-344	-384
40 Contingency Reserves (Spinning)	371	-344	-332	-340	-393	-413	-413	-388	-354	-328	-320	-348	-344	-384
41 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
42 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
43 Federal Transmission Losses	-385	-322	-309	-305	-386	-390	-407	-361	-341	-274	-255	-395	-354	-409
44 Total Reserves & Losses	-2374	-2256	-2220	-2231	-2419	-2462	-2480	-2382	-2297	-2176	-2141	-2338	-2289	-2424

Loads and Resources - Federal System
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>45 Total Net Resources</i>	11095	9286	8910	8796	11144	11245	11750	10403	9836	7898	7366	11388	10202	11795
<i>46 Total Firm Surplus/Deficit</i>	988	-272	-307	-417	493	-715	69	-602	-538	-1432	-1741	1624	737	1353

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Section 10
Monthly Federal System 70-Water Year
Surplus/Deficit

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Monthly Federal System 70-Water Year
Surplus/Deficit
1-Hour Capacity in Megawatts
For OY 2012 – 2021

Power Services

Reports Powered by:



Loads and Resources Information System

Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	2580	-36	544	30	866	449	803	685	679	479	1866	2350	2946	1781
1930 Federal Surplus/Deficit	879	-337	413	-278	752	475	1008	650	1095	403	1319	2210	1722	2547
1931 Federal Surplus/Deficit	-181	-175	225	-721	1088	589	749	713	540	974	1283	3123	905	2333
1932 Federal Surplus/Deficit	1784	250	721	-484	316	358	58	-87	2419	2996	3782	4241	4542	2465
1933 Federal Surplus/Deficit	912	602	863	-51	276	1883	3404	3528	3547	3518	3321	4065	4653	3942
1934 Federal Surplus/Deficit	3376	2561	1256	1197	3466	3722	4083	3907	4067	4050	3700	4043	3805	2421
1935 Federal Surplus/Deficit	46	-271	568	-395	90	569	3129	3332	2693	3612	3078	3828	3189	3292
1936 Federal Surplus/Deficit	2992	275	243	-267	817	404	160	692	931	1923	3635	4225	4170	2674
1937 Federal Surplus/Deficit	1681	230	135	-324	1209	582	1073	509	633	60	1453	3021	2202	2505
1938 Federal Surplus/Deficit	1927	482	538	-380	162	1297	3192	3192	3415	4088	3823	4248	4006	3198
1939 Federal Surplus/Deficit	733	-218	964	154	683	344	1285	1149	1452	3927	3636	4127	2698	2425
1940 Federal Surplus/Deficit	-86	-454	110	84	1293	1264	820	1693	2782	3630	3631	3952	3480	1971
1941 Federal Surplus/Deficit	-275	-433	491	302	419	1158	413	741	970	1102	2453	3445	2406	2435
1942 Federal Surplus/Deficit	1399	455	1282	-549	1060	1949	3331	1386	1076	1275	3413	3707	3978	3467
1943 Federal Surplus/Deficit	3034	1370	715	-36	144	936	3693	3717	3036	4333	4078	4148	4550	3123
1944 Federal Surplus/Deficit	2534	30	20	-234	844	400	964	1041	1353	277	2683	2310	652	1676
1945 Federal Surplus/Deficit	1252	142	908	-607	597	-142	186	201	647	64	1495	4071	3721	1848
1946 Federal Surplus/Deficit	1215	-59	223	-598	532	1369	2909	2666	3512	4230	3916	4210	4196	3294
1947 Federal Surplus/Deficit	2586	510	814	-289	952	3391	3893	3981	3813	3813	3565	4184	4273	3399
1948 Federal Surplus/Deficit	2289	145	656	2849	2915	2589	3928	3537	3106	3739	3760	4328	4616	3692
1949 Federal Surplus/Deficit	3321	2613	1133	371	762	1501	2801	1609	4123	4190	3879	4325	4162	1861
1950 Federal Surplus/Deficit	400	-549	112	-246	653	714	3824	3874	4290	4342	3800	4240	4384	3450
1951 Federal Surplus/Deficit	2876	1468	853	1156	3289	3530	4096	4146	4328	4302	3790	4204	4130	3682
1952 Federal Surplus/Deficit	3270	602	620	2156	1958	2636	3750	3621	3637	4348	3951	4294	4296	3358
1953 Federal Surplus/Deficit	2508	352	212	-306	741	456	2143	2760	2905	3119	3384	4218	4639	3703
1954 Federal Surplus/Deficit	2709	542	668	349	1044	2188	3877	3890	3461	4014	3634	4230	4333	4087
1955 Federal Surplus/Deficit	3409	3696	3168	401	2195	1864	1709	774	1288	738	3090	3985	4626	4193
1956 Federal Surplus/Deficit	3394	2190	436	505	2687	3460	4044	3940	4266	4152	3971	4282	4599	3781
1957 Federal Surplus/Deficit	2811	1256	778	624	745	2245	2930	1570	3520	4352	3639	4231	4560	2935
1958 Federal Surplus/Deficit	1353	-206	535	-84	934	536	3296	3273	2996	4048	3672	4256	4555	2868
1959 Federal Surplus/Deficit	1361	283	420	-317	1719	3087	3985	3920	3998	4124	3630	4024	4379	3297
1960 Federal Surplus/Deficit	3013	1062	3410	3214	3479	3122	3606	3053	3528	4272	3715	4118	4200	3256
1961 Federal Surplus/Deficit	1975	-27	717	136	864	1473	3387	3534	4126	3968	3399	4169	4474	2906
1962 Federal Surplus/Deficit	2149	943	276	-676	816	1215	3081	2963	1417	4214	3843	4207	4366	1762
1963 Federal Surplus/Deficit	1598	330	222	685	2168	3000	3487	3144	2933	2589	3241	4017	3845	3323
1964 Federal Surplus/Deficit	2886	641	699	-232	526	1578	2232	2164	1541	4125	3445	4092	4566	3967
1965 Federal Surplus/Deficit	3367	1280	1566	1232	1697	3490	4133	3972	4197	3773	3877	4138	4382	3323
1966 Federal Surplus/Deficit	3106	2150	896	585	1277	1799	2999	2666	1130	4197	3603	3959	3593	3401
1967 Federal Surplus/Deficit	2797	373	308	-313	540	1837	3943	3917	3616	3056	1768	4055	4332	3545
1968 Federal Surplus/Deficit	3234	901	843	296	1353	1855	3770	3579	3471	2538	2775	3462	4033	3530
1969 Federal Surplus/Deficit	3185	1930	2361	1314	2883	2679	4052	3965	3806	4130	3722	4291	4343	3487
1970 Federal Surplus/Deficit	2194	-164	426	86	1092	700	3184	2478	2550	3643	3160	3981	4510	2853
1971 Federal Surplus/Deficit	1255	-191	231	-311	720	916	4083	4038	4211	4307	3724	4283	4578	3923
1972 Federal Surplus/Deficit	3415	2552	1058	576	999	1953	4074	4147	4447	4303	3710	4275	4525	3993
1973 Federal Surplus/Deficit	3443	3542	1222	368	1172	1707	3179	1620	1462	-54	2384	3478	3041	1964
1974 Federal Surplus/Deficit	-225	-477	139	-563	311	2016	4199	4009	4347	4259	3896	4251	4586	4255
1975 Federal Surplus/Deficit	3313	2652	797	-513	879	1289	3472	3205	3257	2822	3250	4224	4595	4125
1976 Federal Surplus/Deficit	2284	1313	1219	1438	3254	3753	4042	3990	4250	4203	3787	4213	4382	3795
1977 Federal Surplus/Deficit	3428	3692	3734	429	981	573	936	1187	1281	-50	2241	2079	438	1208
1978 Federal Surplus/Deficit	1640	547	710	-828	84	2283	2899	2938	2770	4081	3408	4022	3455	3372
1979 Federal Surplus/Deficit	2125	631	2470	771	1043	676	2670	815	3222	2720	3456	4219	2924	1916
1980 Federal Surplus/Deficit	-287	-454	110	-452	777	60	1272	860	587	3826	3659	4216	4267	2386
1981 Federal Surplus/Deficit	995	-180	671	204	852	3270	3761	3483	3399	1302	3276	3988	4530	3726
1982 Federal Surplus/Deficit	3375	3199	676	185	1476	2273	3532	4085	4304	4231	3692	4172	4425	3664
1983 Federal Surplus/Deficit	3399	2109	2278	1436	1599	2498	3933	3909	4321	4242	3684	4209	4323	3671
1984 Federal Surplus/Deficit	3397	2076	1222	387	3416	2451	3912	3928	4075	4296	3817	4247	4603	3625
1985 Federal Surplus/Deficit	2957	284	1076	180	1446	1746	3382	2244	1133	4050	3669	4186	3443	949
1986 Federal Surplus/Deficit	-285	-498	329	-319	2098	1092	3318	3862	4373	4213	3737	3897	4086	3078
1987 Federal Surplus/Deficit	2296	29	169	-762	1142	1701	1383	7.3	2412	2065	3204	4177	3484	1671
1988 Federal Surplus/Deficit	38	-504	55	-810	585	-9.2	233	458	812	66	2736	3324	2230	2366
1989 Federal Surplus/Deficit	1689	286	383	-775	221	765	1065	1170	2181	3964	3695	4019	3509	2065
1990 Federal Surplus/Deficit	-293	-425	244	-606	1061	1814	3535	3709	3122	3450	3775	3948	4296	3157
1991 Federal Surplus/Deficit	2637	1077	147	-740	3306	2636	3841	3855	3523	4065	3543	4177	4066	3765
1992 Federal Surplus/Deficit	3408	1883	356	-557	752	706	2241	846	3122	1313	2605	3408	2976	1266

**Table A-30: Federal Surplus/Deficit - By Water Year
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2011 - 2012 Operating Year
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Continued

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-292	-367	54	-751	670	712	815	-42	765	1721	2067	4171	3363	2738
<i>1994 Federal Surplus/Deficit</i>	1901	601	30	-734	1222	766	620	1399	1014	258	2961	3363	3032	1753
<i>1995 Federal Surplus/Deficit</i>	-286	-437	122	-849	293	36	930	3037	3596	4036	3266	4012	4203	3358
<i>1996 Federal Surplus/Deficit</i>	1768	324	590	458	3502	3748	4122	4104	4250	4245	4101	4260	4529	4052
<i>1997 Federal Surplus/Deficit</i>	3385	1159	688	146	1116	2355	4184	3990	4374	4179	3995	4159	4505	4012
<i>1998 Federal Surplus/Deficit</i>	3332	1962	2394	3024	2926	2229	3047	3099	3067	2961	3643	4207	4546	3233

Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	2308	947	1438	71	1284	570	1178	713	837	972	2221	2020	2546	2069
1930 Federal Surplus/Deficit	1777	527	1036	-223	1161	597	1382	674	1247	898	1677	1883	1337	2702
1931 Federal Surplus/Deficit	1824	710	1117	-653	1563	705	1123	743	700	1441	1642	2766	490	2512
1932 Federal Surplus/Deficit	1104	-78	434	-428	530	480	430	-77	2589	3388	4220	3867	3980	2636
1933 Federal Surplus/Deficit	1931	1308	1674	-6.7	361	1961	3759	3559	3810	3895	3706	3702	4088	3997
1934 Federal Surplus/Deficit	2807	2796	1285	1174	3906	3713	4365	3995	4398	4444	4132	3672	3333	2580
1935 Federal Surplus/Deficit	911	508	875	-343	-64	690	3632	3175	2884	3987	3450	3476	2773	3355
1936 Federal Surplus/Deficit	2449	1172	267	-214	1245	525	532	721	1084	2348	4073	3856	3684	2812
1937 Federal Surplus/Deficit	1951	851	455	-266	1689	699	1447	534	794	338	1811	2692	1813	2670
1938 Federal Surplus/Deficit	1653	378	1194	-320	92	1398	3680	3192	3473	4464	4263	3880	3505	3269
1939 Federal Surplus/Deficit	1632	830	1232	188	1044	469	1660	1186	1602	4301	4042	3768	2339	2601
1940 Federal Surplus/Deficit	1492	308	778	115	1778	1363	1194	1736	2971	4006	4051	3599	3079	2224
1941 Federal Surplus/Deficit	1002	46	836	320	710	1261	786	771	1122	1558	2810	3100	2035	2598
1942 Federal Surplus/Deficit	1612	920	1455	-488	1523	2026	3687	1427	1228	1728	3811	3351	3458	3529
1943 Federal Surplus/Deficit	2364	1721	1870	5.3	57	1049	4035	3744	3242	4727	4454	3780	3950	3188
1944 Federal Surplus/Deficit	2019	1213	628	-179	1252	523	1338	1077	1503	773	3044	1984	216	1981
1945 Federal Surplus/Deficit	1251	434	1221	-542	958	-12	559	214	807	342	1853	3722	3257	2124
1946 Federal Surplus/Deficit	1971	868	934	-528	804	1469	3277	2711	3765	4609	4344	3837	3694	3304
1947 Federal Surplus/Deficit	2373	1571	1395	-231	1381	3391	4211	4025	4104	4188	3964	3821	3808	3458
1948 Federal Surplus/Deficit	2332	1476	1135	2788	3261	2635	4254	3566	3323	4114	4199	3948	4040	3752
1949 Federal Surplus/Deficit	2760	2751	1699	394	1146	1596	3167	1652	4439	4564	4317	3953	3727	2134
1950 Federal Surplus/Deficit	876	-128	380	-192	998	831	4154	3902	4624	4736	4229	3873	3795	3494
1951 Federal Surplus/Deficit	2702	2515	1324	1138	3592	3523	4394	4232	4661	4697	4226	3833	3601	3735
1952 Federal Surplus/Deficit	2656	1978	1360	2089	2424	2683	4086	3775	3670	4742	4380	3917	3857	3418
1953 Federal Surplus/Deficit	2303	1305	313	-248	1132	577	2516	2906	2996	3505	3774	3853	4144	3763
1954 Federal Surplus/Deficit	2552	2073	1285	372	1496	2257	4208	3917	3713	4389	4041	3863	3720	4114
1955 Federal Surplus/Deficit	3034	3145	2999	422	2636	1942	2083	805	1439	1215	3461	3618	4060	4215
1956 Federal Surplus/Deficit	2814	2306	921	521	3063	3455	4348	4028	4602	4460	4387	3906	3996	3840
1957 Federal Surplus/Deficit	2478	1958	1148	634	1116	2311	3295	1612	3763	4746	4056	3842	3987	3040
1958 Federal Surplus/Deficit	1613	704	1054	-38	1369	658	3654	3306	3207	4423	4103	3879	4000	2980
1959 Federal Surplus/Deficit	1774	1079	957	-259	2200	3100	4299	3962	4315	4503	4027	3652	3831	3351
1960 Federal Surplus/Deficit	2745	2282	3065	3278	3932	3128	3946	3094	3774	4666	4152	3759	3740	3321
1961 Federal Surplus/Deficit	2312	1146	618	170	1283	1567	3738	3564	4443	4343	3790	3800	3932	3007
1962 Federal Surplus/Deficit	1761	1381	778	-604	1231	1319	3444	3003	1568	4609	4270	3841	3859	2053
1963 Federal Surplus/Deficit	1975	1308	563	691	2614	3021	3832	3178	3139	2992	3619	3667	3349	3387
1964 Federal Surplus/Deficit	2417	1396	1362	-178	809	1669	2604	2210	1692	4501	3830	3726	3969	4025
1965 Federal Surplus/Deficit	2767	2140	1965	1207	2179	3484	4412	4060	4532	4139	4291	3766	3892	3387
1966 Federal Surplus/Deficit	2694	2622	812	591	1759	1878	3365	2710	1282	4592	4004	3602	3133	3456
1967 Federal Surplus/Deficit	2430	1412	850	-261	850	1920	4260	3964	3893	3443	2123	3690	3758	3590
1968 Federal Surplus/Deficit	2608	1744	1230	322	1836	1935	4106	3718	3521	2940	3135	3095	3603	3582
1969 Federal Surplus/Deficit	2677	2384	2495	1281	3234	2724	4355	4018	4097	4524	4155	3913	3841	3539
1970 Federal Surplus/Deficit	2065	973	1024	124	1554	818	3541	2630	2610	4021	3532	3622	3992	2970
1971 Federal Surplus/Deficit	2014	1119	670	-258	1082	1029	4389	4127	4536	4698	4161	3908	3971	3981
1972 Federal Surplus/Deficit	2936	2685	1623	590	1438	2033	4383	4234	4779	4697	4129	3900	4001	4041
1973 Federal Surplus/Deficit	3050	3086	1904	392	1642	1796	3542	1663	1614	224	2740	3137	2658	2216
1974 Federal Surplus/Deficit	1509	395	1104	-500	402	2092	4466	4097	4680	4559	4308	3879	3989	4279
1975 Federal Surplus/Deficit	2815	2828	1521	-446	1296	1392	3824	3243	3478	3219	3628	3855	4022	4151
1976 Federal Surplus/Deficit	2602	2328	1913	1404	3564	3737	4357	4048	4586	4597	4220	3841	3859	3847
1977 Federal Surplus/Deficit	3135	3142	3137	448	1428	690	1310	1226	1432	228	2596	1753	-4.3	1748
1978 Federal Surplus/Deficit	1228	-316	226	-755	-69	2338	3265	2979	2968	4475	3807	3660	3023	3435
1979 Federal Surplus/Deficit	2166	1362	2605	768	1498	794	3039	845	3441	3120	3842	3854	2580	2180
1980 Federal Surplus/Deficit	842	154	490	-392	1181	189	1646	892	748	4200	4088	3841	3843	2567
1981 Federal Surplus/Deficit	1495	369	1232	232	1272	3275	4086	3512	3650	1752	3657	3630	4000	3783
1982 Federal Surplus/Deficit	2869	2917	1387	217	1963	2337	3881	4173	4637	4611	4114	3801	3835	3715
1983 Federal Surplus/Deficit	2858	2872	2532	1403	2084	2552	4261	3937	4653	4619	4102	3838	3830	3729
1984 Federal Surplus/Deficit	2777	2444	1758	409	3724	2507	4245	3957	4380	4690	4249	3883	4074	3680
1985 Federal Surplus/Deficit	2414	1435	1454	214	1932	1831	3738	2290	1284	4426	4101	3821	2996	1825
1986 Federal Surplus/Deficit	719	-482	517	-261	2551	1198	3672	3887	4706	4605	4173	3542	3581	3165
1987 Federal Surplus/Deficit	2151	1100	680	-689	1605	1786	1757	17	2585	2484	3579	3815	3087	1971
1988 Federal Surplus/Deficit	720	-537	709	-739	960	121	605	481	968	565	3097	2985	1849	2549
1989 Federal Surplus/Deficit	1357	492	878	-695	243	879	1440	1208	2343	4331	4132	3656	3066	2301
1990 Federal Surplus/Deficit	1444	293	769	-538	1527	1893	3959	3628	3341	3829	4211	3599	3717	3225
1991 Federal Surplus/Deficit	2538	1928	729	-661	3616	2676	4197	3877	3574	4442	3958	3814	3554	3816
1992 Federal Surplus/Deficit	2862	2743	1003	-489	1153	823	2613	878	3347	1762	2965	3075	2609	1775

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	712	-558	195	-681	1039	830	1189	-33	926	2161	2421	3814	2984	2865
<i>1994 Federal Surplus/Deficit</i>	1573	645	991	-655	1702	879	994	1440	1166	760	3327	3030	2653	2038
<i>1995 Federal Surplus/Deficit</i>	1393	159	1066	-769	450	166	1304	3072	3860	4411	3643	3659	3796	3419
<i>1996 Federal Surplus/Deficit</i>	1858	1177	1804	476	3990	3741	4399	4193	4583	4639	4485	3889	3962	4080
<i>1997 Federal Surplus/Deficit</i>	2831	2308	668	182	1574	2417	4458	4078	4697	4573	4392	3784	4006	4065
<i>1998 Federal Surplus/Deficit</i>	2797	2653	2508	2992	3266	2292	3412	3261	3104	3353	4053	3835	3982	3310

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	2413	987	1363	550	840	579	813	481	608	790	1947	2620	3266	1665
1930 Federal Surplus/Deficit	1885	512	992	206	725	609	1031	444	1019	713	1404	2500	2117	2387
1931 Federal Surplus/Deficit	1932	722	1058	-297	1066	689	757	510	471	1277	1369	3321	1312	2192
1932 Federal Surplus/Deficit	1211	-182	467	-3.9	270	497	24	-304	2358	3227	3985	4449	4671	2320
1933 Federal Surplus/Deficit	2038	1389	1598	462	216	1869	3496	3314	3562	3709	3446	4228	4739	3746
1934 Federal Surplus/Deficit	2892	2865	1216	1695	3506	3652	4081	3762	4122	4208	3894	4213	3978	2240
1935 Federal Surplus/Deficit	1018	493	852	99	3.6	695	3367	2929	2649	3794	3185	3967	3461	3116
1936 Federal Surplus/Deficit	2549	1248	318	224	792	533	126	489	856	2198	3840	4422	4390	2516
1937 Federal Surplus/Deficit	2058	883	489	148	1188	685	1102	304	565	372	1538	3281	2567	2331
1938 Federal Surplus/Deficit	1761	342	1133	82	86	1335	3414	2946	3232	4243	4030	4436	4215	3019
1939 Federal Surplus/Deficit	1739	861	1166	684	652	503	1317	951	1375	4098	3793	4298	3041	2246
1940 Federal Surplus/Deficit	1599	258	763	616	1272	1294	831	1498	2737	3813	3802	4132	3769	1831
1941 Federal Surplus/Deficit	1109	-42	807	842	381	1201	398	539	894	1399	2539	3648	2781	2276
1942 Federal Surplus/Deficit	1719	961	1376	-89	1038	1933	3423	1190	1000	1571	3558	3896	4160	3318
1943 Federal Surplus/Deficit	2467	1825	1803	482	66	1016	3772	3499	3004	4491	4209	4325	4641	2914
1944 Federal Surplus/Deficit	2126	1279	630	247	817	542	982	842	1276	588	2774	2601	1053	1575
1945 Federal Surplus/Deficit	1358	408	1160	-165	566	317	157	-13	578	376	1581	4253	3944	1733
1946 Federal Surplus/Deficit	2078	901	890	-191	492	1404	2999	2467	3519	4377	4105	4366	4449	3052
1947 Federal Surplus/Deficit	2477	1663	1320	183	927	3345	3937	3785	3850	3995	3711	4370	4520	3239
1948 Federal Surplus/Deficit	2437	1563	1077	2975	2888	2549	3984	3320	3084	3915	3967	4513	4728	3545
1949 Federal Surplus/Deficit	2847	2826	1620	910	733	1521	2892	1414	4175	4342	4086	4524	4460	1720
1950 Federal Surplus/Deficit	983	-243	450	241	620	815	3884	3659	4355	4499	3994	4406	4456	3266
1951 Federal Surplus/Deficit	2796	2609	1253	1663	3256	3487	4113	3999	4385	4460	3997	4377	4327	3527
1952 Federal Surplus/Deficit	2753	2085	1290	2483	1934	2596	3869	3386	3427	4506	4151	4479	4577	3192
1953 Federal Surplus/Deficit	2409	1376	390	168	713	584	2209	2662	2761	3337	3517	4389	4799	3565
1954 Federal Surplus/Deficit	2653	2181	1219	887	1021	2162	3941	3674	3467	4186	3792	4409	4429	3859
1955 Federal Surplus/Deficit	3106	3149	3038	940	2170	1850	1761	573	1211	1044	3196	4158	4678	3958
1956 Federal Surplus/Deficit	2899	2411	891	1045	2659	3415	4069	3795	4331	4230	4143	4447	4663	3618
1957 Federal Surplus/Deficit	2581	2066	1091	1163	715	2217	3023	1375	3519	4510	3813	4414	4692	2771
1958 Federal Surplus/Deficit	1720	713	1012	425	910	673	3387	3061	2969	4208	3867	4450	4726	2697
1959 Federal Surplus/Deficit	1881	1133	920	158	1697	3037	4025	3723	4054	4275	3764	4173	4492	3119
1960 Federal Surplus/Deficit	2833	2387	3082	3212	3518	3075	3683	2849	3530	4430	3918	4270	4463	3072
1961 Federal Surplus/Deficit	2417	1209	627	666	839	1490	3474	3318	4182	4129	3534	4346	4599	2738
1962 Federal Surplus/Deficit	1869	1463	766	-282	790	1261	3174	2758	1340	4372	4029	4377	4608	1653
1963 Federal Surplus/Deficit	2082	1385	575	1221	2142	2948	3569	2933	2901	2838	3356	4191	4041	3154
1964 Federal Surplus/Deficit	2521	1478	1288	253	488	1587	2301	1968	1464	4281	3572	4266	4612	3781
1965 Federal Surplus/Deficit	2854	2247	1899	1725	1675	3446	4127	3827	4262	3953	4039	4333	4631	3153
1966 Federal Surplus/Deficit	2784	2710	709	1121	1256	1786	3090	2466	1054	4355	3756	4108	3821	3214
1967 Federal Surplus/Deficit	2533	1495	825	180	504	1830	3986	3725	3642	3277	1849	4220	4401	3375
1968 Federal Surplus/Deficit	2702	1845	1161	832	1332	1844	3841	3473	3278	2785	2865	3660	4308	3358
1969 Federal Surplus/Deficit	2769	2486	2481	1786	2856	2639	4075	3780	3842	4287	3916	4463	4583	3318
1970 Federal Surplus/Deficit	2171	1029	969	610	1070	810	3271	2387	2378	3837	3267	4162	4702	2689
1971 Federal Surplus/Deficit	2121	1177	674	177	689	1002	4111	3894	4273	4462	3929	4456	4664	3738
1972 Federal Surplus/Deficit	3014	2768	1544	1116	975	1941	4106	4001	4504	4460	3894	4445	4678	3773
1973 Federal Surplus/Deficit	3124	3109	1829	906	1151	1711	3273	1425	1386	259	2468	3701	3369	1822
1974 Federal Surplus/Deficit	1616	358	1054	-112	253	1999	4182	3864	4404	4329	4066	4425	4658	4016
1975 Federal Surplus/Deficit	2897	2884	1393	-89	853	1333	3560	2998	3238	3062	3366	4403	4718	3916
1976 Federal Surplus/Deficit	2702	2432	1840	1907	3231	3705	4083	3812	4315	4360	3985	4392	4611	3625
1977 Federal Surplus/Deficit	3215	3145	3117	968	957	681	955	990	1204	263	2322	2431	870	1330
1978 Federal Surplus/Deficit	1335	-468	345	-447	-1.6	2237	2990	2765	2690	4238	3555	4193	3717	3211
1979 Federal Surplus/Deficit	2271	1451	2623	1301	1020	790	2757	613	3201	2966	3584	4403	3269	1779
1980 Federal Surplus/Deficit	948	87	524	12	750	444	1299	659	519	3997	3847	4408	4564	2232
1981 Federal Surplus/Deficit	1602	336	1162	739	827	3224	3816	3266	3404	1596	3397	4177	4657	3576
1982 Federal Surplus/Deficit	2949	2960	1311	717	1455	2243	3618	3940	4361	4378	3874	4383	4523	3529
1983 Federal Surplus/Deficit	2940	2930	2521	1906	1577	2457	3994	3690	4377	4387	3862	4410	4582	3529
1984 Federal Surplus/Deficit	2865	2544	1679	925	3398	2416	3979	3714	4117	4454	4020	4450	4747	3491
1985 Federal Surplus/Deficit	2518	1518	1379	709	1426	1744	3474	2048	1056	4205	3865	4373	3684	1406
1986 Federal Surplus/Deficit	823	-676	564	153	2073	1148	3406	3638	4430	4369	3945	4076	4307	2893
1987 Federal Surplus/Deficit	2258	1159	676	-378	1120	1699	1416	-210	2354	2335	3315	4360	3748	1563
1988 Federal Surplus/Deficit	824	-787	696	-419	555	392	205	251	740	378	2828	3537	2602	2212
1989 Federal Surplus/Deficit	1464	479	841	-388	155	856	1083	972	2114	4133	3898	4176	3745	1917
1990 Federal Surplus/Deficit	1552	248	752	-190	1039	1800	3696	3384	3101	3648	3976	4110	4417	2977
1991 Federal Surplus/Deficit	2636	2035	718	-354	3293	2594	3924	3635	3330	4218	3707	4353	4260	3593
1992 Federal Surplus/Deficit	2945	2810	956	-133	725	809	2317	645	3106	1607	2694	3643	3331	1356

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	817	-762	297	-343	640	819	822	-259	697	2009	2148	4363	3677	2548
<i>1994 Federal Surplus/Deficit</i>	1680	653	943	-348	1201	853	616	1203	938	570	3059	3604	3374	1631
<i>1995 Federal Surplus/Deficit</i>	1500	89	1019	-462	241	429	938	3031	3403	4196	3380	4193	4516	3194
<i>1996 Federal Surplus/Deficit</i>	1965	1243	1731	998	3539	3681	4115	3960	4307	4402	4233	4457	4696	3827
<i>1997 Federal Surplus/Deficit</i>	2915	2413	672	672	1093	2317	4173	3845	4394	4337	4147	4326	4689	3798
<i>1998 Federal Surplus/Deficit</i>	2883	2738	2492	3090	2900	2198	3139	3016	2867	3191	3805	4424	4704	3109

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	2346	885	1359	2.9	492	383	415	12	260	310	1457	1936	1964	1870
1930 Federal Surplus/Deficit	1823	425	970	-261	378	415	630	-33	660	235	593	1825	853	2522
1931 Federal Surplus/Deficit	1870	627	1045	-657	709	476	360	43	126	786	-1784	2602	33	2332
1932 Federal Surplus/Deficit	1168	-234	398	-464	-77	306	-363	-802	1972	2754	3613	3619	3418	2457
1933 Federal Surplus/Deficit	1973	1282	1591	-68	-136	1572	3060	2878	3158	3278	3026	3459	3496	3651
1934 Federal Surplus/Deficit	2837	2815	1209	1027	3019	3259	3660	3298	3710	3838	3511	3422	2772	2399
1935 Federal Surplus/Deficit	982	406	817	-389	-352	495	2930	2506	2256	3372	2749	3238	2174	3106
1936 Federal Surplus/Deficit	2484	1141	238	-257	443	335	-261	20	502	1707	3465	3605	3273	2629
1937 Federal Surplus/Deficit	1993	783	420	-296	829	474	700	-172	220	-95	-1615	2560	1314	2490
1938 Federal Surplus/Deficit	1702	262	1121	-345	-274	1082	2977	2521	2832	3839	3656	3624	3007	3044
1939 Federal Surplus/Deficit	1681	760	1157	109	306	421	914	497	1009	3689	3395	3520	1862	2421
1940 Federal Surplus/Deficit	1545	184	723	32	907	1037	433	1057	2344	3389	3422	3352	2577	2034
1941 Federal Surplus/Deficit	1071	-101	776	216	35	951	6.1	71	537	906	2072	2886	1577	2418
1942 Federal Surplus/Deficit	1662	858	1374	-512	684	1635	2993	744	640	1077	3153	3110	3094	3254
1943 Federal Surplus/Deficit	2402	1724	1788	-61	-295	791	3336	3060	2608	4121	3803	3524	3309	2987
1944 Federal Surplus/Deficit	2060	1173	580	-215	470	367	583	385	909	110	2316	1912	-247	1777
1945 Federal Surplus/Deficit	1311	325	1148	-555	220	298	-232	-507	233	-91	-1572	3479	2699	1928
1946 Federal Surplus/Deficit	2014	800	868	-524	146	1149	2577	2044	3116	3988	3717	3576	3262	3078
1947 Federal Surplus/Deficit	2410	1557	1316	-262	578	2957	3509	3328	3444	3564	3301	3571	3336	3196
1948 Federal Surplus/Deficit	2370	1456	1063	2591	2448	2208	3552	2884	2685	3489	3595	3705	3413	3446
1949 Federal Surplus/Deficit	2790	2782	1615	297	386	1255	2469	971	3760	3932	3709	3707	3223	1939
1950 Federal Surplus/Deficit	948	-291	359	-233	275	603	3456	3214	3939	4130	3604	3617	3099	3247
1951 Federal Surplus/Deficit	2737	2547	1246	994	2786	3094	3712	3536	3914	4091	3617	3576	3257	3430
1952 Federal Surplus/Deficit	2696	1991	1283	1899	1547	2255	3435	2950	3026	4136	3763	3670	3453	3174
1953 Federal Surplus/Deficit	2341	1270	294	-280	366	387	1825	2214	2367	2881	3103	3606	3568	3459
1954 Federal Surplus/Deficit	2591	2092	1210	276	669	1850	3508	3230	3064	3766	3389	3606	3096	3777
1955 Federal Surplus/Deficit	3024	3102	2881	324	1770	1553	1352	106	847	557	2760	3381	3422	3880
1956 Federal Surplus/Deficit	2844	2333	860	417	2230	3024	3645	3331	3915	3807	3750	3654	3296	3524
1957 Federal Surplus/Deficit	2516	1971	1077	521	369	1902	2598	931	3117	4141	3415	3605	3422	2844
1958 Federal Surplus/Deficit	1662	619	989	-95	560	480	2950	2627	2571	3805	3486	3640	3543	2789
1959 Federal Surplus/Deficit	1820	1028	894	-292	1320	2664	3596	3266	3646	3885	3370	3403	3152	3121
1960 Federal Surplus/Deficit	2776	2310	2899	3126	3032	2695	3247	2427	3128	4060	3538	3511	3227	3089
1961 Federal Surplus/Deficit	2350	1103	573	91	490	1221	3037	3001	3679	3727	3115	3550	3319	2812
1962 Federal Surplus/Deficit	1808	1356	725	-593	442	1014	2748	2336	973	4003	3640	3586	3422	1853
1963 Federal Surplus/Deficit	2016	1278	519	572	1745	2582	3133	2498	2505	2360	2928	3422	2791	3135
1964 Federal Surplus/Deficit	2455	1371	1283	-217	142	1311	1888	1540	1095	3893	3152	3484	3550	3695
1965 Federal Surplus/Deficit	2798	2162	1883	1057	1300	3054	3712	3363	3847	3489	3646	3520	3460	3142
1966 Federal Surplus/Deficit	2726	2654	760	472	895	1491	2667	2043	696	3986	3331	3360	2578	3199
1967 Federal Surplus/Deficit	2467	1388	792	-305	159	1540	3559	3267	3237	2819	1355	3444	3003	3319
1968 Federal Surplus/Deficit	2635	1744	1154	232	971	1551	3407	3035	2877	2308	2406	2886	3130	3302
1969 Federal Surplus/Deficit	2708	2414	2410	1125	2418	2296	3652	3320	3436	3918	3532	3665	3367	3268
1970 Federal Surplus/Deficit	2105	923	953	52	716	602	2834	1963	1990	3404	2831	3377	3468	2782
1971 Federal Surplus/Deficit	2056	1071	623	-299	343	780	3686	3430	3863	4092	3551	3654	3319	3660
1972 Federal Surplus/Deficit	2958	2717	1540	481	625	1645	3681	3537	4086	4091	3489	3645	3378	3697
1973 Federal Surplus/Deficit	3043	3080	1820	297	795	1432	2847	983	1016	-208	1998	2936	2140	2026
1974 Federal Surplus/Deficit	1562	279	1036	-518	-99	1697	3761	3400	3986	3906	3668	3621	3322	3933
1975 Federal Surplus/Deficit	2841	2852	1438	-449	505	1085	3122	2572	2839	2590	2937	3598	3455	3856
1976 Federal Surplus/Deficit	2641	2356	1830	1247	2761	3309	3654	3351	3899	3991	3602	3585	3393	3533
1977 Federal Surplus/Deficit	3120	3098	2930	347	606	472	555	539	838	-204	1843	1189	-417	1531
1978 Federal Surplus/Deficit	1289	-500	232	-738	-357	1910	2567	2343	2296	3869	3143	3408	2488	3177
1979 Federal Surplus/Deficit	2204	1344	2511	640	668	584	2336	144	2803	2490	3166	3601	2093	1987
1980 Federal Surplus/Deficit	915	19	454	-418	402	425	897	195	173	3584	3472	3597	3400	2387
1981 Federal Surplus/Deficit	1547	255	1155	143	478	2843	3383	2831	3001	1102	2974	3386	3441	3470
1982 Federal Surplus/Deficit	2882	2922	1307	135	1087	1923	3181	3477	3943	3986	3477	3555	3194	3422
1983 Federal Surplus/Deficit	2885	2897	2444	1245	1207	2120	3559	3244	3959	3993	3461	3589	3376	3432
1984 Federal Surplus/Deficit	2808	2475	1675	311	2919	2087	3543	3267	3706	4084	3633	3634	3479	3393
1985 Federal Surplus/Deficit	2452	1412	1375	136	1061	1459	3037	1621	696	3802	3485	3568	2429	1607
1986 Federal Surplus/Deficit	797	-689	487	-292	1679	908	2969	3193	4012	3998	3561	3299	3246	2956
1987 Federal Surplus/Deficit	2191	1053	630	-673	766	1414	1013	-708	1966	1845	2882	3565	2595	1768
1988 Federal Surplus/Deficit	797	-765	658	-727	208	373	-184	-227	389	-89	2372	2800	1370	2369
1989 Federal Surplus/Deficit	1414	391	815	-663	-200	638	684	519	1732	3698	3522	3416	2499	2114
1990 Federal Surplus/Deficit	1499	171	714	-538	684	1503	3260	2945	2703	3189	3598	3350	3134	3014
1991 Federal Surplus/Deficit	2570	1941	676	-629	2816	2246	3496	3187	2929	3828	3325	3551	3174	3489
1992 Federal Surplus/Deficit	2890	2754	936	-493	378	597	1901	180	2706	1113	2233	2887	2157	1557

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	790	-770	186	-677	293	609	425	-758	352	1515	1658	3562	2478	2682
<i>1994 Federal Surplus/Deficit</i>	1624	559	923	-623	841	632	222	757	581	95	2612	2839	2172	1839
<i>1995 Federal Surplus/Deficit</i>	1449	22	999	-737	-108	410	541	2768	2775	3800	2949	3414	3349	3173
<i>1996 Federal Surplus/Deficit</i>	1902	1137	1721	374	3052	3288	3696	3496	3889	4031	3811	3644	3514	3754
<i>1997 Federal Surplus/Deficit</i>	2860	2335	621	107	740	1989	3756	3382	3948	3967	3741	3531	3446	3728
<i>1998 Federal Surplus/Deficit</i>	2828	2686	2424	2807	2457	1878	2709	2582	2472	2726	3410	3596	3523	3081

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	2245	734	1193	-126	380	318	456	113	126	298	1380	2506	2986	1489
1930 Federal Surplus/Deficit	1701	275	813	-401	266	351	656	74	554	225	833	2379	1913	2265
1931 Federal Surplus/Deficit	1749	476	883	-808	595	405	402	143	-16	764	797	3236	1148	2050
1932 Federal Surplus/Deficit	992	-380	267	-604	-190	241	-277	-681	1919	2685	3449	4241	4278	2182
1933 Federal Surplus/Deficit	1863	1133	1428	-199	-250	1470	3075	2913	2677	3180	2880	4110	4343	3554
1934 Federal Surplus/Deficit	2708	2697	1044	926	2864	3103	3487	3279	3572	3685	3347	4052	3633	2138
1935 Federal Surplus/Deficit	786	256	667	-526	-467	430	2814	2530	2206	3267	2621	3903	3139	2985
1936 Federal Surplus/Deficit	2376	991	156	-395	330	270	-175	121	385	1662	3285	4230	4099	2391
1937 Federal Surplus/Deficit	1883	632	288	-438	714	404	718	-66	78	-99	967	3183	2338	2223
1938 Federal Surplus/Deficit	1571	113	958	-489	-390	998	2864	2543	2775	3710	3484	4255	3895	2895
1939 Federal Surplus/Deficit	1549	610	994	-17	194	282	929	585	920	3575	3226	4158	2828	2141
1940 Federal Surplus/Deficit	1400	35	575	-92	791	951	473	1133	2294	3285	3243	4005	3483	1683
1941 Federal Surplus/Deficit	882	-248	623	99	-77	869	73	171	427	879	1975	3532	2565	2152
1942 Federal Surplus/Deficit	1528	707	1208	-656	570	1533	2871	825	537	1049	2991	3761	3963	3155
1943 Federal Surplus/Deficit	2298	1579	1630	-191	-411	718	3194	3064	2556	3969	3688	4154	4203	2807
1944 Federal Surplus/Deficit	1951	1022	438	-355	358	289	614	476	821	100	2210	2481	886	1382
1945 Federal Surplus/Deficit	1147	175	986	-703	108	159	-150	-388	91	-95	1009	4139	3601	1557
1946 Federal Surplus/Deficit	1902	649	711	-677	34	1065	2495	2086	3046	3846	3585	4209	4106	2928
1947 Federal Surplus/Deficit	2309	1409	1150	-404	466	2812	3343	3314	3351	3464	3142	4199	4173	3086
1948 Federal Surplus/Deficit	2269	1307	902	2491	2313	2086	3390	2897	2630	3381	3422	4325	4273	3368
1949 Federal Surplus/Deficit	2664	2653	1451	178	274	1166	2380	1049	3645	3803	3539	4334	4096	1571
1950 Federal Surplus/Deficit	749	-436	357	-371	163	533	3300	3264	3765	3977	3421	4248	3988	3124
1951 Federal Surplus/Deficit	2616	2413	1081	892	2645	2946	3539	3516	3780	3938	3444	4207	4107	3349
1952 Federal Surplus/Deficit	2576	1847	1118	1807	1426	2134	3278	2962	2962	3984	3618	4290	4301	3047
1953 Federal Surplus/Deficit	2240	1119	317	-421	254	322	1793	2257	2316	2800	2951	4243	4416	3384
1954 Federal Surplus/Deficit	2480	1950	1046	156	556	1743	3351	3228	2995	3656	3222	4236	3980	3662
1955 Federal Surplus/Deficit	2899	2964	2778	205	1646	1451	1341	205	753	540	2632	4038	4278	3776
1956 Federal Surplus/Deficit	2715	2195	708	300	2099	2877	3473	3311	3772	3734	3598	4281	4207	3448
1957 Federal Surplus/Deficit	2412	1828	915	407	257	1793	2502	1010	3052	3988	3239	4249	4289	2650
1958 Federal Surplus/Deficit	1529	468	832	-228	448	417	2840	2655	2518	3682	3303	4268	4375	2584
1959 Federal Surplus/Deficit	1697	877	739	-433	1202	2527	3428	3251	3531	3750	3208	4043	4070	2980
1960 Federal Surplus/Deficit	2651	2172	2800	2996	2876	2554	3100	2457	3061	3907	3359	4164	4162	2948
1961 Federal Surplus/Deficit	2249	952	433	-34	378	1132	2912	3013	3572	3607	2965	4177	4193	2618
1962 Federal Surplus/Deficit	1683	1207	578	-749	330	933	2647	2366	886	3850	3481	4217	4251	1469
1963 Federal Surplus/Deficit	1907	1128	380	461	1622	2449	2994	2528	2453	2298	2791	4078	3681	3016
1964 Federal Surplus/Deficit	2353	1222	1118	-356	30	1219	1850	1598	1013	3762	3006	4120	4393	3603
1965 Federal Surplus/Deficit	2670	2022	1726	957	1181	2907	3539	3343	3709	3387	3518	4141	4287	3015
1966 Federal Surplus/Deficit	2603	2522	614	360	780	1390	2578	2084	589	3833	3168	4019	3472	3079
1967 Federal Surplus/Deficit	2365	1239	641	-443	47	1442	3394	3251	3153	2740	1281	4086	3937	3215
1968 Federal Surplus/Deficit	2528	1598	989	111	856	1451	3255	3043	2815	2245	2301	3551	3978	3204
1969 Federal Surplus/Deficit	2592	2278	2274	1026	2284	2174	3480	3303	3343	3765	3368	4288	4203	3159
1970 Federal Surplus/Deficit	1999	773	793	-76	603	534	2734	2009	1938	3307	2703	4021	4353	2569
1971 Federal Surplus/Deficit	1946	921	482	-437	232	708	3515	3410	3741	3940	3372	4279	4179	3581
1972 Federal Surplus/Deficit	2829	2586	1375	366	513	1545	3511	3518	3938	3938	3308	4273	4244	3598
1973 Federal Surplus/Deficit	2917	2956	1659	177	682	1338	2745	1059	935	-212	1904	3596	3104	1676
1974 Federal Surplus/Deficit	1418	130	877	-664	-213	1595	3589	3380	3838	3833	3523	4250	4227	3813
1975 Federal Surplus/Deficit	2711	2724	1272	-600	393	1003	3002	2598	2783	2523	2801	4230	4316	3768
1976 Federal Surplus/Deficit	2530	2219	1669	1149	2620	3154	3487	3333	3754	3838	3437	4211	4237	3453
1977 Federal Surplus/Deficit	2949	2960	2832	229	493	403	585	625	748	-208	1758	2312	752	1106
1978 Federal Surplus/Deficit	1122	-642	375	-896	-472	1799	2710	2038	2245	3716	2984	4042	3412	3064
1979 Federal Surplus/Deficit	2103	1196	2389	532	555	517	2262	245	2747	2426	3018	4228	2994	1626
1980 Federal Surplus/Deficit	711	-128	323	-562	291	286	919	292	32	3472	3289	4217	4229	2103
1981 Federal Surplus/Deficit	1405	106	991	21	366	2702	3222	2844	2933	1073	2832	4036	4291	3376
1982 Federal Surplus/Deficit	2752	2802	1141	11	971	1812	3051	3457	3795	3845	3297	4176	4076	3341
1983 Federal Surplus/Deficit	2755	2769	2304	1147	1089	2004	3401	3243	3811	3854	3283	4213	4211	3344
1984 Federal Surplus/Deficit	2682	2339	1510	192	2775	1972	3388	3261	3600	3931	3479	4262	4374	3307
1985 Federal Surplus/Deficit	2350	1263	1209	10.0	946	1363	2915	1676	593	3676	3302	4195	3321	1182
1986 Federal Surplus/Deficit	575	-828	386	-434	1556	829	2856	3194	3864	3846	3381	3957	4110	2784
1987 Federal Surplus/Deficit	2087	903	486	-830	653	1317	1026	-586	1914	1797	2750	4195	3469	1376
1988 Federal Surplus/Deficit	576	-894	513	-883	97	234	-104	-119	263	-93	2264	3457	2380	2082
1989 Federal Surplus/Deficit	1260	241	660	-819	-315	566	715	607	1673	3589	3343	4063	3411	1778
1990 Federal Surplus/Deficit	1351	22	565	-690	570	1402	3119	2950	2647	3099	3459	3996	4021	2853
1991 Federal Surplus/Deficit	2463	1798	529	-785	2673	2121	3346	3170	2650	3698	3149	4194	4039	3404
1992 Federal Surplus/Deficit	2760	2636	778	-643	266	528	1851	278	2649	1082	2130	3549	3102	1133

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	569	-908	302	-830	182	540	469	-636	210	1480	1581	4200	3389	2453
<i>1994 Federal Surplus/Deficit</i>	1487	408	765	-779	726	559	278	838	470	88	2495	3497	3126	1461
<i>1995 Federal Surplus/Deficit</i>	1297	-126	841	-893	-221	271	583	2788	2718	3676	2814	4071	4202	3048
<i>1996 Federal Surplus/Deficit</i>	1785	987	1560	256	2899	3132	3524	3476	3741	3880	3696	4264	4346	3666
<i>1997 Federal Surplus/Deficit</i>	2730	2197	479	-20	627	1877	3591	3362	3865	3814	3601	4158	4285	3626
<i>1998 Federal Surplus/Deficit</i>	2699	2554	2280	2699	2321	1766	2617	2604	2421	2653	3238	4225	4360	2942

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	2067	718	1386	-379	173	-98	269	-109	335	234	1253	1626	1944	1691
1930 Federal Surplus/Deficit	1529	273	992	-641	59	-69	463	-156	735	165	741	1513	795	2283
1931 Federal Surplus/Deficit	1577	469	1070	-1023	387	17	214	-77	199	677	706	2297	60	2104
1932 Federal Surplus/Deficit	829	-378	396	-843	-398	-183	-449	-939	1974	2538	3201	3352	3367	2226
1933 Federal Surplus/Deficit	1688	1094	1967	-450	-461	1204	2797	2614	2597	3023	2650	3164	3500	3369
1934 Federal Surplus/Deficit	2539	2514	1235	702	2585	2866	3222	2904	3269	3511	3105	3124	2697	2163
1935 Federal Surplus/Deficit	625	254	833	-770	-687	18	2549	2279	2201	3109	2409	2929	2192	2823
1936 Federal Surplus/Deficit	2194	957	281	-637	124	-144	-347	-100	578	1540	3033	3335	3129	2382
1937 Federal Surplus/Deficit	1708	619	417	-673	506	13	522	-294	293	-142	875	2247	1245	2256
1938 Federal Surplus/Deficit	1401	113	1146	-720	-606	672	2599	2291	2693	3546	3233	3345	2986	2777
1939 Federal Surplus/Deficit	1379	597	1184	-271	-12	-181	731	378	1078	3415	2977	3239	1740	2192
1940 Federal Surplus/Deficit	1232	37	737	-347	582	632	284	933	2293	3127	2985	3073	2510	1841
1941 Federal Surplus/Deficit	720	-245	793	-155	-284	538	-105	-48	613	784	1805	2590	1481	2183
1942 Federal Surplus/Deficit	1358	692	1399	-887	364	1268	2601	623	714	950	2748	2835	2963	2979
1943 Federal Surplus/Deficit	2119	1511	1795	-442	-628	349	2912	2759	2515	3794	3445	3238	3288	2726
1944 Federal Surplus/Deficit	1776	995	588	-594	152	-138	423	266	977	40	2026	1604	105	1606
1945 Federal Surplus/Deficit	982	174	1174	-926	-98	-601	-323	-640	306	-138	918	3184	2725	1745
1946 Federal Surplus/Deficit	1727	636	890	-885	-173	742	2250	1868	2904	3678	3354	3280	3194	2851
1947 Federal Surplus/Deficit	2130	1361	1343	-639	260	2602	3050	2950	3139	3302	2897	3285	3288	2918
1948 Federal Surplus/Deficit	2091	1264	1088	2357	2095	1862	3099	2618	2565	3224	3169	3424	3372	3178
1949 Federal Surplus/Deficit	2491	2485	1636	-77	68	859	2131	848	3380	3641	3292	3436	3215	1754
1950 Federal Surplus/Deficit	613	-434	483	-612	-44	144	3006	2925	3476	3803	3170	3329	3093	2974
1951 Federal Surplus/Deficit	2439	2273	1273	663	2421	2733	3271	3142	3484	3764	3198	3265	3070	3163
1952 Federal Surplus/Deficit	2400	1765	1310	1629	1214	1910	2989	2683	2850	3809	3381	3391	3339	2902
1953 Federal Surplus/Deficit	2062	1089	442	-657	48	-93	1573	2040	2306	2651	2715	3308	3532	3205
1954 Federal Surplus/Deficit	2302	1857	1236	-99	350	1493	3061	2904	2857	3494	2972	3319	3088	3498
1955 Federal Surplus/Deficit	2710	2787	2777	-50	1431	1185	1132	-14	920	463	2420	3108	3423	3598
1956 Federal Surplus/Deficit	2545	2080	878	47	1870	2665	3194	2940	3468	3544	3357	3359	3305	3263
1957 Federal Surplus/Deficit	2232	1745	1102	157	51	1546	2249	808	2932	3813	2988	3312	3373	2579
1958 Federal Surplus/Deficit	1359	461	1010	-476	241	-5.7	2578	2413	2465	3518	3048	3355	3466	2528
1959 Federal Surplus/Deficit	1525	856	914	-670	991	2317	3140	2888	3269	3580	2950	3096	3131	2849
1960 Federal Surplus/Deficit	2477	2055	2794	2802	2598	2344	2815	2222	2934	3733	3107	3203	3206	2817
1961 Federal Surplus/Deficit	2071	927	579	-289	172	828	2641	2731	3324	3441	2725	3260	3270	2547
1962 Federal Surplus/Deficit	1512	1168	738	-951	124	598	2390	2129	1040	3675	3246	3300	3356	1676
1963 Federal Surplus/Deficit	1732	1093	524	212	1407	2237	2713	2291	2412	2161	2570	3127	2815	2864
1964 Federal Surplus/Deficit	2174	1183	1310	-597	-178	925	1628	1395	1159	3597	2775	3200	3331	3429
1965 Federal Surplus/Deficit	2499	1921	1889	736	971	2694	3281	2970	3408	3244	3285	3238	3398	2871
1966 Federal Surplus/Deficit	2427	2372	771	112	572	1121	2329	1866	772	3658	2932	3054	2588	2912
1967 Federal Surplus/Deficit	2186	1199	808	-686	-160	1166	3100	2883	2965	2591	1163	3152	3037	3037
1968 Federal Surplus/Deficit	2345	1534	1180	-145	648	1180	2968	2749	2709	2106	2119	2604	3049	3021
1969 Federal Surplus/Deficit	2412	2153	2362	816	2065	1951	3200	2932	3130	3591	3121	3378	3321	2985
1970 Federal Surplus/Deficit	1823	751	978	-329	396	137	2477	1796	1978	3151	2491	3099	3429	2524
1971 Federal Surplus/Deficit	1771	898	631	-679	25	333	3233	3024	3464	3766	3120	3372	3326	3412
1972 Federal Surplus/Deficit	2669	2429	1562	114	306	1276	3223	3146	3632	3764	3061	3333	3327	3418
1973 Federal Surplus/Deficit	2738	2756	1835	-78	474	1049	2488	859	1080	-256	1740	2626	2070	1833
1974 Federal Surplus/Deficit	1250	130	1059	-891	-425	1330	3349	2994	3532	3645	3291	3335	3316	3671
1975 Federal Surplus/Deficit	2546	2540	1461	-815	187	670	2733	2351	2708	2381	2579	3314	3413	3631
1976 Federal Surplus/Deficit	2352	2100	1843	940	2396	2929	3198	2961	3448	3664	3197	3302	3340	3255
1977 Federal Surplus/Deficit	2729	2783	2831	-25	287	7.7	393	419	907	-252	1609	956	94	1375
1978 Federal Surplus/Deficit	957	-642	500	-1092	-693	1557	2450	1821	2230	3541	2739	3113	2440	2904
1979 Federal Surplus/Deficit	1924	1150	2428	289	348	116	2021	24	2676	2286	2786	3321	1980	1798
1980 Federal Surplus/Deficit	625	-126	452	-794	84	-430	723	76	247	3313	3031	3318	3331	2161
1981 Federal Surplus/Deficit	1237	106	1182	-234	160	2493	2930	2567	2798	972	2604	3113	3403	3173
1982 Federal Surplus/Deficit	2582	2571	1334	-244	762	1570	2775	3079	3489	3678	3047	3288	3160	3166
1983 Federal Surplus/Deficit	2590	2587	2381	939	880	1771	3110	2920	3505	3687	3034	3320	3333	3175
1984 Federal Surplus/Deficit	2509	2210	1695	-63	2556	1738	3098	2926	3354	3757	3241	3363	3452	3132
1985 Federal Surplus/Deficit	2171	1222	1402	-244	737	1081	2645	1472	770	3508	3048	3292	2436	1452
1986 Federal Surplus/Deficit	627	-831	511	-669	1342	483	2593	2882	3558	3672	3133	3005	3055	2685
1987 Federal Surplus/Deficit	1910	879	640	-1028	446	1036	828	-845	1958	1672	2534	3281	2477	1595
1988 Federal Surplus/Deficit	627	-882	669	-1084	-110	-497	-278	-350	465	-136	2078	2485	1300	2144
1989 Federal Surplus/Deficit	1093	239	834	-1014	-528	186	524	400	1757	3428	3087	3116	2490	1913
1990 Federal Surplus/Deficit	1183	23	728	-902	363	1135	2838	2651	2576	2944	3218	3045	3125	2744
1991 Federal Surplus/Deficit	2279	1714	688	-979	2453	1902	3052	2828	2575	3531	2889	3261	3003	3194
1992 Federal Surplus/Deficit	2590	2458	959	-859	60	137	1624	61	2568	979	1951	2584	2020	1402

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	620	-903	427	-1039	-25	146	282	-894	425	1371	1453	3282	2394	2433
<i>1994 Federal Surplus/Deficit</i>	1318	402	946	-974	519	184	95	636	657	34	2296	2529	2076	1660
<i>1995 Federal Surplus/Deficit</i>	1130	-123	1022	-1088	-431	-453	396	2526	2638	3512	2594	3133	3279	2900
<i>1996 Federal Surplus/Deficit</i>	1612	959	1733	2.5	2621	2894	3266	3091	3435	3707	3470	3367	3427	3479
<i>1997 Federal Surplus/Deficit</i>	2562	2082	628	-274	421	1636	3339	2975	3559	3640	3366	3240	3385	3459
<i>1998 Federal Surplus/Deficit</i>	2529	2399	2369	2563	2095	1524	2365	2349	2393	2507	2988	3321	3444	2801

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1914	562	1149	76	596	523	621	177	276	489	1574	2649	3126	1605
1930 Federal Surplus/Deficit	1441	131	754	-199	482	555	821	138	705	416	1027	2522	2053	2382
1931 Federal Surplus/Deficit	1487	320	832	-606	812	610	566	207	134	955	991	3379	1287	2167
1932 Federal Surplus/Deficit	813	-498	161	-402	27	446	-113	-617	2070	2877	3645	4384	4419	2300
1933 Federal Surplus/Deficit	1575	925	1374	2.9	-33	1676	3241	2978	2828	3372	3076	4253	4484	3672
1934 Federal Surplus/Deficit	2334	2311	997	1128	3082	3309	3653	3344	3724	3878	3542	4196	3773	2255
1935 Federal Surplus/Deficit	630	112	596	-324	-251	635	2980	2595	2357	3460	2816	4046	3279	3103
1936 Federal Surplus/Deficit	2000	790	47	-193	547	475	-11	185	535	1853	3480	4373	4240	2508
1937 Federal Surplus/Deficit	1596	465	183	-236	931	609	883	-2	228	92	1161	3326	2478	2340
1938 Federal Surplus/Deficit	1328	-24	908	-286	-174	1203	3030	2608	2927	3902	3679	4399	4035	3013
1939 Federal Surplus/Deficit	1307	444	946	186	411	486	1094	650	1070	3768	3421	4302	2968	2259
1940 Federal Surplus/Deficit	1179	-97	500	110	1008	1156	637	1197	2445	3477	3438	4148	3623	1800
1941 Federal Surplus/Deficit	719	-370	556	302	139	1074	238	235	577	1071	2170	3676	2705	2269
1942 Federal Surplus/Deficit	1290	535	1163	-454	787	1738	3037	889	687	1240	3187	3905	4104	3273
1943 Federal Surplus/Deficit	1947	1331	1565	12	-195	923	3360	3129	2707	4161	3883	4298	4344	2925
1944 Federal Surplus/Deficit	1660	831	352	-153	574	493	779	540	972	291	2405	2624	1025	1498
1945 Federal Surplus/Deficit	953	35	936	-501	325	363	15	-325	241	96	1203	4283	3741	1673
1946 Federal Surplus/Deficit	1620	482	652	-475	251	1270	2661	2150	3198	4039	3780	4353	4247	3046
1947 Federal Surplus/Deficit	1969	1188	1105	-201	682	3018	3509	3379	3503	3656	3337	4343	4313	3204
1948 Federal Surplus/Deficit	1936	1093	850	2694	2531	2292	3556	2962	2782	3574	3617	4469	4414	3485
1949 Federal Surplus/Deficit	2286	2292	1401	380	491	1371	2546	1113	3797	3995	3735	4477	4237	1687
1950 Federal Surplus/Deficit	620	-552	249	-169	379	738	3467	3329	3917	4170	3617	4392	4128	3242
1951 Federal Surplus/Deficit	2235	2082	1035	1095	2863	3152	3706	3582	3932	4131	3639	4351	4248	3467
1952 Federal Surplus/Deficit	2199	1582	1072	2010	1643	2340	3444	3028	3114	4176	3814	4434	4442	3165
1953 Federal Surplus/Deficit	1914	923	209	-219	471	527	1958	2322	2468	2992	3146	4387	4556	3501
1954 Federal Surplus/Deficit	2114	1672	998	359	773	1948	3517	3294	3147	3849	3417	4380	4121	3779
1955 Federal Surplus/Deficit	2497	2594	2571	407	1863	1657	1506	269	904	731	2827	4182	4419	3894
1956 Federal Surplus/Deficit	2340	1892	641	503	2316	3083	3640	3377	3924	3818	3793	4425	4348	3566
1957 Federal Surplus/Deficit	2058	1562	864	610	474	1998	2668	1074	3204	4181	3434	4392	4430	2768
1958 Federal Surplus/Deficit	1290	314	772	-25	664	622	3006	2720	2669	3875	3499	4412	4516	2701
1959 Federal Surplus/Deficit	1439	695	676	-231	1419	2733	3594	3317	3683	3942	3403	4186	4211	3098
1960 Federal Surplus/Deficit	2272	1867	2601	3200	3094	2760	3266	2522	3213	4100	3554	4308	4303	3065
1961 Federal Surplus/Deficit	1917	764	343	168	595	1337	3078	3078	3724	3799	3161	4321	4334	2736
1962 Federal Surplus/Deficit	1429	999	501	-547	547	1138	2813	2431	1037	4042	3676	4361	4392	1586
1963 Federal Surplus/Deficit	1618	925	288	663	1839	2655	3160	2593	2604	2490	2987	4221	3821	3133
1964 Federal Surplus/Deficit	2005	1013	1072	-154	246	1424	2015	1662	1164	3955	3201	4264	4533	3721
1965 Federal Surplus/Deficit	2294	1735	1660	1160	1399	3113	3705	3409	3861	3580	3714	4285	4428	3133
1966 Federal Surplus/Deficit	2223	2180	535	563	997	1595	2744	2149	739	4025	3363	4163	3612	3196
1967 Federal Surplus/Deficit	2020	1030	571	-240	263	1647	3560	3317	3305	2932	1476	4229	4078	3332
1968 Federal Surplus/Deficit	2150	1355	943	313	1073	1657	3421	3108	2967	2437	2496	3694	4119	3321
1969 Federal Surplus/Deficit	2211	1963	2134	1229	2501	2379	3647	3368	3495	3957	3563	4431	4344	3277
1970 Federal Surplus/Deficit	1699	590	740	127	819	739	2899	2073	2089	3499	2898	4165	4493	2686
1971 Federal Surplus/Deficit	1657	737	395	-235	448	913	3681	3476	3893	4133	3568	4423	4320	3699
1972 Federal Surplus/Deficit	2448	2236	1327	569	729	1750	3678	3583	4090	4131	3503	4416	4385	3715
1973 Federal Surplus/Deficit	2515	2559	1603	380	898	1544	2911	1123	1085	-22	2098	3740	3244	1792
1974 Federal Surplus/Deficit	1196	-6.1	821	-462	3.4	1800	3755	3446	3990	3917	3719	4394	4368	3931
1975 Federal Surplus/Deficit	2342	2341	1226	-398	610	1208	3168	2663	2934	2715	2996	4374	4457	3886
1976 Federal Surplus/Deficit	2163	1911	1611	1352	2838	3360	3653	3399	3906	4030	3633	4355	4378	3570
1977 Federal Surplus/Deficit	2539	2591	2645	432	710	608	750	689	899	-18	1952	2455	891	1223
1978 Federal Surplus/Deficit	932	-752	267	-694	-256	2004	2876	2103	2397	3908	3179	4185	3552	3182
1979 Federal Surplus/Deficit	1779	978	2214	735	771	722	2428	309	2899	2618	3213	4372	3134	1743
1980 Federal Surplus/Deficit	632	-256	218	-360	507	491	1084	356	182	3664	3485	4361	4370	2220
1981 Federal Surplus/Deficit	1180	-32	944	223	583	2908	3388	2909	3084	1264	3027	4179	4431	3493
1982 Federal Surplus/Deficit	2351	2404	1097	213	1188	2018	3217	3523	3947	4037	3492	4319	4217	3459
1983 Federal Surplus/Deficit	2386	2393	2155	1350	1306	2209	3567	3308	3963	4047	3479	4356	4352	3462
1984 Federal Surplus/Deficit	2304	2020	1461	395	2993	2177	3555	3327	3752	4124	3674	4406	4515	3424
1985 Federal Surplus/Deficit	2004	1052	1165	212	1163	1568	3081	1741	744	3869	3498	4339	3462	1299
1986 Federal Surplus/Deficit	634	-932	278	-232	1773	1034	3022	3259	4016	4039	3577	4101	4250	2902
1987 Federal Surplus/Deficit	1777	717	404	-628	870	1523	1191	-523	2065	1989	2945	4338	3609	1493
1988 Federal Surplus/Deficit	634	-990	432	-681	313	439	60	-55	413	98	2459	3600	2520	2199
1989 Federal Surplus/Deficit	1052	97	597	-617	-98	771	880	671	1824	3782	3539	4207	3551	1895
1990 Federal Surplus/Deficit	1134	-111	491	-488	787	1607	3285	3016	2798	3292	3654	4140	4162	2970
1991 Federal Surplus/Deficit	2084	1531	451	-583	2891	2327	3512	3235	2802	3890	3345	4337	4180	3522
1992 Federal Surplus/Deficit	2368	2264	721	-441	482	733	2017	342	2800	1273	2325	3692	3243	1249

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	627	-1010	193	-628	398	745	634	-573	360	1671	1776	4344	3530	2570
<i>1994 Federal Surplus/Deficit</i>	1253	254	708	-577	943	764	442	902	621	279	2690	3640	3266	1577
<i>1995 Federal Surplus/Deficit</i>	1086	-252	784	-691	-4.6	476	748	2853	2869	3868	3010	4215	4343	3165
<i>1996 Federal Surplus/Deficit</i>	1515	794	1501	459	3117	3338	3690	3542	3893	4073	3891	4408	4487	3784
<i>1997 Federal Surplus/Deficit</i>	2357	1893	392	182	844	2083	3758	3427	3934	4007	3797	4302	4426	3744
<i>1998 Federal Surplus/Deficit</i>	2324	2207	2140	2903	2539	1972	2783	2669	2572	2845	3434	4369	4501	3059

Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	2187	840	1508	-170	402	126	519	145	566	470	1489	1831	2147	1886
1930 Federal Surplus/Deficit	1649	395	1114	-432	288	155	713	98	966	400	977	1717	997	2478
1931 Federal Surplus/Deficit	1697	591	1192	-815	616	242	464	177	430	912	942	2502	261	2299
1932 Federal Surplus/Deficit	948	-256	517	-634	-170	41	-200	-685	2206	2775	3438	3557	3570	2421
1933 Federal Surplus/Deficit	1808	1217	1729	-241	-233	1429	3048	2869	2829	3260	2887	3369	3703	3565
1934 Federal Surplus/Deficit	2659	2637	1358	911	2815	3092	3473	3160	3501	3748	3342	3329	2900	2358
1935 Federal Surplus/Deficit	744	376	955	-561	-459	243	2800	2534	2433	3346	2646	3134	2395	3018
1936 Federal Surplus/Deficit	2314	1079	403	-429	353	80	-97	154	809	1776	3270	3540	3332	2577
1937 Federal Surplus/Deficit	1828	741	538	-465	735	237	772	-41	523	93	1112	2452	1447	2451
1938 Federal Surplus/Deficit	1520	235	1269	-512	-378	897	2851	2546	2925	3783	3471	3551	3189	2973
1939 Federal Surplus/Deficit	1499	719	1306	-63	216	43	981	632	1309	3652	3214	3444	1942	2387
1940 Federal Surplus/Deficit	1352	158	859	-139	811	857	534	1187	2525	3364	3222	3278	2713	2036
1941 Federal Surplus/Deficit	839	-124	915	54	-56	762	144	206	844	1019	2041	2795	1683	2378
1942 Federal Surplus/Deficit	1478	814	1521	-678	592	1493	2853	877	945	1186	2985	3040	3166	3175
1943 Federal Surplus/Deficit	2239	1633	1917	-234	-400	573	3163	3015	2747	4032	3682	3443	3491	2921
1944 Federal Surplus/Deficit	1896	1117	710	-385	380	86	673	520	1208	275	2263	1808	306	1801
1945 Federal Surplus/Deficit	1101	296	1296	-718	130	-377	-74	-386	537	97	1154	3389	2928	1940
1946 Federal Surplus/Deficit	1847	758	1012	-677	55	966	2501	2123	3136	3915	3592	3485	3397	3047
1947 Federal Surplus/Deficit	2250	1483	1465	-431	488	2827	3302	3205	3371	3539	3134	3490	3491	3114
1948 Federal Surplus/Deficit	2211	1386	1210	2567	2324	2088	3351	2873	2797	3460	3407	3630	3575	3373
1949 Federal Surplus/Deficit	2611	2608	1758	132	297	1084	2382	1102	3612	3878	3530	3642	3418	1949
1950 Federal Surplus/Deficit	732	-312	604	-404	185	368	3257	3180	3709	4040	3408	3535	3296	3170
1951 Federal Surplus/Deficit	2559	2396	1396	872	2651	2959	3523	3397	3716	4001	3435	3471	3273	3359
1952 Federal Surplus/Deficit	2520	1887	1432	1839	1443	2135	3240	2938	3082	4047	3618	3596	3543	3098
1953 Federal Surplus/Deficit	2182	1211	564	-449	276	131	1824	2295	2537	2887	2952	3514	3735	3401
1954 Federal Surplus/Deficit	2422	1979	1358	110	579	1718	3313	3159	3089	3731	3209	3524	3291	3693
1955 Federal Surplus/Deficit	2830	2910	2900	159	1660	1409	1382	240	1150	698	2657	3314	3627	3793
1956 Federal Surplus/Deficit	2665	2203	1001	256	2100	2891	3445	3195	3700	3729	3595	3565	3508	3458
1957 Federal Surplus/Deficit	2353	1868	1224	365	279	1771	2500	1063	3164	4051	3225	3518	3576	2775
1958 Federal Surplus/Deficit	1479	583	1132	-268	470	219	2829	2669	2697	3755	3285	3560	3669	2724
1959 Federal Surplus/Deficit	1645	978	1036	-461	1220	2542	3391	3143	3501	3817	3187	3301	3334	3044
1960 Federal Surplus/Deficit	2597	2178	2917	3012	2828	2570	3067	2477	3166	3970	3344	3409	3409	3012
1961 Federal Surplus/Deficit	2191	1049	701	-80	401	1053	2892	2987	3556	3678	2962	3465	3473	2742
1962 Federal Surplus/Deficit	1632	1291	860	-742	352	822	2641	2384	1271	3912	3483	3506	3559	1871
1963 Federal Surplus/Deficit	1852	1215	646	421	1636	2462	2964	2546	2643	2397	2807	3332	3018	3060
1964 Federal Surplus/Deficit	2294	1305	1432	-388	51	1150	1879	1650	1390	3834	3012	3406	3534	3625
1965 Federal Surplus/Deficit	2619	2043	2012	946	1200	2920	3533	3226	3640	3481	3523	3443	3601	3067
1966 Federal Surplus/Deficit	2547	2495	894	321	801	1346	2580	2121	1003	3896	3169	3260	2790	3107
1967 Federal Surplus/Deficit	2306	1322	930	-477	68	1391	3351	3139	3197	2828	1399	3357	3240	3232
1968 Federal Surplus/Deficit	2465	1656	1303	64	877	1405	3219	3005	2941	2343	2356	2809	3252	3216
1969 Federal Surplus/Deficit	2532	2276	2485	1025	2295	2176	3452	3187	3362	3828	3358	3583	3524	3180
1970 Federal Surplus/Deficit	1943	873	1100	-120	625	361	2728	2051	2209	3388	2728	3304	3633	2719
1971 Federal Surplus/Deficit	1891	1020	752	-470	254	558	3484	3279	3696	4003	3357	3578	3529	3607
1972 Federal Surplus/Deficit	2790	2552	1685	322	535	1501	3474	3401	3864	4001	3299	3538	3530	3614
1973 Federal Surplus/Deficit	2859	2879	1958	131	703	1274	2739	1113	1311	-21	1976	2831	2272	2028
1974 Federal Surplus/Deficit	1370	252	1181	-683	-196	1555	3600	3249	3764	3828	3529	3540	3519	3867
1975 Federal Surplus/Deficit	2666	2663	1584	-607	415	895	2985	2606	2940	2618	2816	3519	3616	3827
1976 Federal Surplus/Deficit	2472	2223	1966	1149	2626	3154	3449	3216	3680	3901	3435	3507	3543	3451
1977 Federal Surplus/Deficit	2849	2906	2954	184	515	232	643	673	1138	-17	1846	1160	296	1570
1978 Federal Surplus/Deficit	1076	-520	622	-884	-465	1782	2701	2076	2462	3778	2976	3318	2642	3100
1979 Federal Surplus/Deficit	2044	1272	2551	498	577	340	2272	278	2907	2523	3023	3526	2182	1993
1980 Federal Surplus/Deficit	744	-4.7	573	-585	313	-206	974	330	477	3550	3268	3523	3534	2356
1981 Federal Surplus/Deficit	1357	227	1304	-26	388	2718	3182	2822	3030	1208	2841	3318	3606	3369
1982 Federal Surplus/Deficit	2703	2694	1456	-35	990	1795	3027	3335	3721	3916	3284	3493	3363	3362
1983 Federal Surplus/Deficit	2710	2710	2504	1148	1108	1996	3362	3176	3737	3924	3271	3526	3536	3370
1984 Federal Surplus/Deficit	2629	2333	1818	146	2785	1963	3349	3182	3586	3994	3478	3568	3655	3328
1985 Federal Surplus/Deficit	2291	1345	1524	-36	966	1306	2896	1727	1001	3745	3285	3497	2639	1647
1986 Federal Surplus/Deficit	746	-710	633	-461	1571	708	2844	3138	3790	3910	3371	3210	3258	2881
1987 Federal Surplus/Deficit	2030	1001	762	-819	675	1261	1078	-591	2189	1908	2771	3486	2680	1790
1988 Federal Surplus/Deficit	746	-761	791	-875	119	-273	-28	-96	695	99	2315	2689	1502	2339
1989 Federal Surplus/Deficit	1213	360	956	-806	-300	411	774	655	1988	3665	3324	3321	2692	2108
1990 Federal Surplus/Deficit	1303	145	850	-693	592	1360	3089	2906	2807	3180	3456	3250	3328	2939
1991 Federal Surplus/Deficit	2399	1837	810	-771	2682	2127	3304	3084	2807	3768	3126	3466	3206	3390
1992 Federal Surplus/Deficit	2711	2581	1081	-650	288	361	1874	315	2800	1215	2188	2789	2223	1597

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2018 - 2019 Operating Year
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Continued

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	739	-781	549	-830	204	371	532	-641	656	1607	1689	3487	2596	2628
<i>1994 Federal Surplus/Deficit</i>	1438	524	1068	-765	747	408	345	890	888	269	2533	2734	2279	1855
<i>1995 Federal Surplus/Deficit</i>	1250	-1.9	1144	-880	-203	-229	646	2782	2870	3749	2831	3338	3482	3095
<i>1996 Federal Surplus/Deficit</i>	1732	1081	1855	211	2851	3120	3518	3346	3667	3944	3708	3572	3630	3675
<i>1997 Federal Surplus/Deficit</i>	2682	2204	750	-65	649	1861	3590	3231	3791	3877	3603	3445	3588	3655
<i>1998 Federal Surplus/Deficit</i>	2649	2522	2491	2773	2324	1749	2616	2604	2624	2744	3225	3526	3647	2996

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	2111	759	1351	-71	503	426	563	232	204	424	1510	2555	3033	1507
1930 Federal Surplus/Deficit	1638	328	957	-345	389	458	762	193	633	351	962	2428	1959	2283
1931 Federal Surplus/Deficit	1683	517	1035	-752	718	513	508	262	62	890	926	3285	1194	2068
1932 Federal Surplus/Deficit	1009	-302	364	-549	-67	349	-171	-562	1998	2812	3580	4291	4326	2201
1933 Federal Surplus/Deficit	1772	1122	1577	-144	-127	1578	3183	3034	2756	3307	3011	4160	4391	3573
1934 Federal Surplus/Deficit	2530	2509	1200	982	2988	3212	3595	3399	3652	3813	3477	4102	3680	2156
1935 Federal Surplus/Deficit	826	309	798	-471	-344	537	2922	2650	2285	3395	2751	3953	3186	3004
1936 Federal Surplus/Deficit	2196	987	249	-339	454	378	-69	240	463	1788	3415	4280	4147	2409
1937 Federal Surplus/Deficit	1792	661	385	-382	838	511	825	53	156	27	1096	3233	2384	2241
1938 Federal Surplus/Deficit	1524	173	1111	-433	-267	1106	2972	2663	2854	3837	3615	4305	3942	2914
1939 Federal Surplus/Deficit	1503	640	1148	39	317	389	1036	705	998	3703	3356	4208	2875	2160
1940 Federal Surplus/Deficit	1375	100	703	-37	915	1059	579	1252	2373	3412	3374	4055	3530	1701
1941 Federal Surplus/Deficit	914	-173	758	155	46	977	179	290	505	1005	2105	3582	2611	2170
1942 Federal Surplus/Deficit	1486	732	1365	-601	694	1641	2979	944	615	1175	3122	3811	4010	3174
1943 Federal Surplus/Deficit	2143	1529	1768	-135	-288	825	3302	3184	2635	4096	3818	4205	4250	2826
1944 Federal Surplus/Deficit	1857	1027	555	-299	481	396	720	595	900	226	2340	2530	932	1400
1945 Federal Surplus/Deficit	1149	232	1139	-648	231	266	-44	-269	169	31	1139	4189	3648	1575
1946 Federal Surplus/Deficit	1816	679	855	-621	158	1173	2603	2206	3126	3974	3716	4260	4154	2947
1947 Federal Surplus/Deficit	2166	1385	1308	-348	589	2921	3451	3434	3431	3591	3272	4249	4220	3105
1948 Federal Surplus/Deficit	2133	1290	1053	2548	2438	2194	3498	3017	2710	3509	3553	4375	4321	3387
1949 Federal Surplus/Deficit	2483	2490	1604	234	398	1274	2487	1168	3725	3930	3670	4384	4144	1589
1950 Federal Surplus/Deficit	815	-356	451	-316	286	640	3408	3385	3845	4105	3552	4298	4035	3143
1951 Federal Surplus/Deficit	2432	2280	1238	948	2770	3055	3648	3637	3860	4066	3574	4257	4155	3368
1952 Federal Surplus/Deficit	2396	1779	1275	1864	1550	2243	3386	3083	3042	4111	3749	4341	4349	3066
1953 Federal Surplus/Deficit	2110	1120	411	-366	377	430	1900	2377	2396	2927	3081	4293	4463	3403
1954 Federal Surplus/Deficit	2311	1869	1201	212	680	1851	3459	3349	3075	3784	3352	4286	4028	3681
1955 Federal Surplus/Deficit	2694	2792	2775	261	1770	1560	1448	324	832	666	2762	4088	4326	3795
1956 Federal Surplus/Deficit	2537	2090	844	356	2223	2986	3581	3432	3852	3747	3728	4331	4255	3468
1957 Federal Surplus/Deficit	2254	1760	1066	463	380	1901	2610	1129	3132	4116	3369	4299	4337	2669
1958 Federal Surplus/Deficit	1486	510	975	-172	571	525	2948	2775	2597	3810	3434	4318	4423	2603
1959 Federal Surplus/Deficit	1635	892	878	-378	1326	2636	3536	3372	3611	3877	3338	4093	4117	2999
1960 Federal Surplus/Deficit	2469	2064	2805	3053	3001	2663	3208	2578	3141	4035	3490	4214	4210	2967
1961 Federal Surplus/Deficit	2114	961	546	21	502	1240	3020	3133	3652	3734	3096	4227	4241	2637
1962 Federal Surplus/Deficit	1625	1196	704	-693	453	1040	2755	2486	965	3977	3612	4268	4298	1487
1963 Federal Surplus/Deficit	1815	1122	491	517	1746	2558	3101	2648	2532	2425	2922	4128	3728	3034
1964 Federal Surplus/Deficit	2202	1210	1275	-300	153	1327	1957	1717	1091	3890	3136	4170	4440	3622
1965 Federal Surplus/Deficit	2490	1932	1863	1013	1305	3016	3647	3464	3789	3515	3649	4191	4335	3034
1966 Federal Surplus/Deficit	2420	2378	738	416	903	1498	2686	2205	667	3960	3299	4069	3519	3098
1967 Federal Surplus/Deficit	2216	1227	773	-387	170	1550	3502	3372	3233	2867	1411	4136	3985	3234
1968 Federal Surplus/Deficit	2347	1553	1145	167	980	1559	3363	3163	2895	2372	2431	3601	4026	3223
1969 Federal Surplus/Deficit	2407	2161	2338	1083	2408	2282	3588	3424	3423	3892	3498	4338	4251	3178
1970 Federal Surplus/Deficit	1895	787	942	-20	726	642	2841	2129	2017	3434	2833	4071	4400	2588
1971 Federal Surplus/Deficit	1854	934	597	-382	355	816	3623	3531	3821	4068	3503	4329	4227	3600
1972 Federal Surplus/Deficit	2645	2434	1530	422	636	1653	3620	3638	4018	4066	3439	4323	4292	3617
1973 Federal Surplus/Deficit	2712	2757	1806	233	805	1446	2853	1179	1013	-87	2034	3646	3151	1694
1974 Federal Surplus/Deficit	1392	190	1024	-609	-90	1703	3697	3501	3918	3846	3654	4301	4275	3833
1975 Federal Surplus/Deficit	2539	2539	1429	-544	516	1111	3110	2718	2862	2650	2931	4280	4364	3787
1976 Federal Surplus/Deficit	2360	2109	1815	1205	2745	3263	3595	3454	3834	3965	3568	4261	4285	3472
1977 Federal Surplus/Deficit	2736	2789	2849	285	617	511	692	744	827	-83	1887	2361	798	1124
1978 Federal Surplus/Deficit	1128	-556	469	-841	-349	1907	2818	2158	2325	3843	3114	4092	3459	3083
1979 Federal Surplus/Deficit	1975	1175	2417	588	678	625	2370	364	2826	2553	3148	4279	3041	1644
1980 Federal Surplus/Deficit	827	-59	420	-506	414	394	1025	412	110	3599	3420	4268	4277	2121
1981 Federal Surplus/Deficit	1376	165	1147	77	489	2811	3330	2964	3012	1199	2962	4086	4338	3395
1982 Federal Surplus/Deficit	2547	2602	1299	67	1095	1920	3158	3578	3875	3972	3427	4226	4123	3360
1983 Federal Surplus/Deficit	2583	2591	2359	1204	1213	2112	3509	3364	3891	3982	3414	4263	4259	3363
1984 Federal Surplus/Deficit	2501	2218	1664	248	2899	2080	3496	3382	3680	4059	3609	4312	4422	3326
1985 Federal Surplus/Deficit	2201	1249	1368	66	1069	1471	3022	1796	672	3804	3433	4245	3369	1200
1986 Federal Surplus/Deficit	829	-736	480	-378	1680	936	2964	3314	3944	3974	3512	4007	4157	2803
1987 Federal Surplus/Deficit	1974	914	606	-775	776	1426	1133	-468	1993	1924	2880	4245	3516	1394
1988 Federal Surplus/Deficit	830	-794	635	-827	220	341	2.1	-0.1	341	33	2394	3506	2427	2101
1989 Federal Surplus/Deficit	1248	293	799	-764	-192	674	822	726	1752	3717	3474	4113	3458	1797
1990 Federal Surplus/Deficit	1330	85	693	-634	694	1510	3227	3071	2726	3227	3589	4046	4069	2872
1991 Federal Surplus/Deficit	2281	1729	654	-729	2798	2230	3454	3290	2730	3825	3280	4244	4086	3424
1992 Federal Surplus/Deficit	2565	2462	923	-588	389	635	1959	397	2728	1208	2260	3598	3149	1150

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	823	-814	396	-775	305	648	575	-517	288	1606	1711	4250	3437	2471
<i>1994 Federal Surplus/Deficit</i>	1449	451	911	-723	850	667	384	957	549	214	2625	3547	3173	1479
<i>1995 Federal Surplus/Deficit</i>	1282	-56	986	-838	-98	379	690	2908	2797	3803	2945	4121	4250	3066
<i>1996 Federal Surplus/Deficit</i>	1712	991	1704	312	3024	3241	3632	3597	3821	4008	3827	4314	4394	3686
<i>1997 Federal Surplus/Deficit</i>	2554	2091	595	36	751	1986	3699	3483	3856	3942	3732	4208	4333	3646
<i>1998 Federal Surplus/Deficit</i>	2520	2405	2343	2756	2445	1875	2724	2724	2500	2780	3369	4275	4407	2961

Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	2094	748	1423	-250	380	100	488	121	518	427	1447	1758	2074	1809
1930 Federal Surplus/Deficit	1556	303	1029	-512	266	129	682	74	919	358	935	1645	924	2401
1931 Federal Surplus/Deficit	1604	499	1107	-894	594	215	433	153	382	870	899	2430	188	2222
1932 Federal Surplus/Deficit	855	-348	432	-714	-192	15	-231	-710	2158	2732	3396	3485	3497	2344
1933 Federal Surplus/Deficit	1715	1125	1644	-321	-255	1402	3017	2845	2781	3218	2845	3297	3630	3487
1934 Federal Surplus/Deficit	2566	2545	1272	832	2793	3065	3442	3135	3453	3705	3300	3257	2827	2281
1935 Federal Surplus/Deficit	652	284	870	-641	-482	216	2769	2510	2385	3304	2604	3062	2322	2941
1936 Federal Surplus/Deficit	2221	987	317	-509	330	53	-128	130	762	1734	3228	3468	3259	2500
1937 Federal Surplus/Deficit	1735	649	453	-544	713	211	741	-65	476	50	1069	2379	1374	2373
1938 Federal Surplus/Deficit	1428	143	1183	-591	-401	870	2820	2522	2877	3741	3428	3478	3116	2895
1939 Federal Surplus/Deficit	1406	627	1221	-142	194	17	950	608	1261	3609	3172	3371	1869	2310
1940 Federal Surplus/Deficit	1259	66	774	-218	789	830	504	1163	2477	3321	3180	3206	2640	1958
1941 Federal Surplus/Deficit	746	-216	830	-26	-78	736	114	181	796	977	1999	2722	1610	2301
1942 Federal Surplus/Deficit	1385	722	1436	-758	570	1466	2822	853	898	1143	2943	2968	3093	3097
1943 Federal Surplus/Deficit	2147	1541	1832	-313	-422	547	3132	2990	2700	3989	3640	3371	3418	2844
1944 Federal Surplus/Deficit	1803	1025	625	-465	358	60	642	496	1161	233	2220	1736	233	1723
1945 Federal Surplus/Deficit	1009	204	1211	-797	108	-403	-104	-410	489	54	1112	3316	2855	1862
1946 Federal Surplus/Deficit	1755	666	927	-756	33	940	2470	2099	3088	3873	3549	3413	3324	2969
1947 Federal Surplus/Deficit	2158	1391	1380	-510	466	2801	3271	3181	3324	3497	3092	3418	3418	3036
1948 Federal Surplus/Deficit	2118	1294	1125	2488	2302	2061	3320	2849	2749	3418	3364	3557	3502	3296
1949 Federal Surplus/Deficit	2519	2516	1673	52	275	1057	2351	1078	3565	3835	3488	3569	3345	1872
1950 Federal Surplus/Deficit	639	-404	519	-484	163	342	3226	3156	3661	3998	3365	3462	3223	3092
1951 Federal Surplus/Deficit	2467	2304	1310	793	2629	2933	3492	3373	3669	3958	3393	3398	3200	3282
1952 Federal Surplus/Deficit	2428	1795	1347	1759	1420	2108	3209	2914	3034	4004	3576	3524	3470	3020
1953 Federal Surplus/Deficit	2090	1119	479	-528	254	105	1793	2271	2490	2845	2909	3441	3662	3323
1954 Federal Surplus/Deficit	2330	1887	1273	30	556	1691	3282	3135	3042	3689	3167	3452	3218	3616
1955 Federal Surplus/Deficit	2738	2818	2815	79	1638	1383	1352	216	1103	656	2615	3241	3554	3716
1956 Federal Surplus/Deficit	2573	2111	915	176	2078	2865	3415	3171	3653	3683	3552	3492	3435	3381
1957 Federal Surplus/Deficit	2260	1776	1139	286	257	1745	2469	1039	3116	4008	3183	3445	3503	2697
1958 Federal Surplus/Deficit	1386	491	1047	-347	448	192	2799	2644	2650	3713	3243	3488	3596	2646
1959 Federal Surplus/Deficit	1552	886	950	-541	1198	2516	3360	3119	3454	3774	3145	3229	3261	2967
1960 Federal Surplus/Deficit	2505	2086	2832	2933	2805	2543	3036	2453	3119	3928	3302	3336	3337	2935
1961 Federal Surplus/Deficit	2098	957	615	-160	378	1026	2861	2962	3509	3635	2920	3393	3400	2665
1962 Federal Surplus/Deficit	1539	1199	775	-822	330	796	2611	2359	1224	3870	3441	3433	3486	1793
1963 Federal Surplus/Deficit	1759	1123	561	341	1614	2436	2934	2522	2596	2355	2765	3259	2945	2983
1964 Federal Surplus/Deficit	2201	1213	1347	-468	28	1123	1848	1626	1342	3792	2970	3333	3461	3548
1965 Federal Surplus/Deficit	2526	1951	1927	866	1178	2894	3502	3201	3593	3439	3480	3371	3528	2990
1966 Federal Surplus/Deficit	2455	2403	808	241	778	1320	2549	2097	955	3853	3127	3187	2718	3030
1967 Federal Surplus/Deficit	2214	1230	845	-557	46	1365	3321	3114	3150	2786	1357	3285	3167	3155
1968 Federal Surplus/Deficit	2373	1564	1217	-16	855	1378	3188	2981	2894	2300	2314	2737	3179	3139
1969 Federal Surplus/Deficit	2440	2184	2400	946	2273	2150	3421	3163	3315	3785	3316	3511	3451	3103
1970 Federal Surplus/Deficit	1850	781	1014	-200	602	335	2697	2026	2162	3346	2686	3231	3560	2642
1971 Federal Surplus/Deficit	1799	928	667	-550	231	531	3454	3255	3649	3961	3315	3505	3456	3530
1972 Federal Surplus/Deficit	2697	2460	1599	243	513	1475	3444	3377	3817	3959	3256	3466	3457	3536
1973 Federal Surplus/Deficit	2766	2787	1873	51	681	1248	2709	1089	1263	-63	1934	2758	2199	1950
1974 Federal Surplus/Deficit	1277	160	1096	-762	-219	1529	3569	3225	3717	3782	3486	3468	3446	3790
1975 Federal Surplus/Deficit	2574	2571	1499	-686	393	868	2954	2582	2893	2575	2774	3447	3543	3750
1976 Federal Surplus/Deficit	2379	2131	1880	1070	2604	3128	3419	3192	3633	3858	3392	3435	3470	3374
1977 Federal Surplus/Deficit	2757	2814	2869	104	493	205	613	649	1090	-59	1804	1087	223	1493
1978 Federal Surplus/Deficit	984	-612	537	-964	-487	1755	2670	2051	2415	3736	2934	3246	2569	3023
1979 Federal Surplus/Deficit	1952	1180	2466	418	555	314	2241	254	2860	2480	2981	3454	2109	1916
1980 Federal Surplus/Deficit	651	-97	488	-665	291	-232	943	306	430	3508	3226	3451	3461	2279
1981 Federal Surplus/Deficit	1264	135	1219	-105	366	2692	3151	2798	2982	1165	2799	3246	3533	3291
1982 Federal Surplus/Deficit	2610	2602	1371	-115	968	1768	2996	3310	3673	3873	3242	3421	3291	3284
1983 Federal Surplus/Deficit	2618	2618	2419	1068	1086	1970	3331	3152	3690	3882	3229	3453	3463	3293
1984 Federal Surplus/Deficit	2537	2241	1732	66	2763	1936	3319	3157	3539	3952	3436	3496	3582	3251
1985 Federal Surplus/Deficit	2198	1253	1439	-115	944	1279	2865	1703	954	3703	3243	3425	2566	1569
1986 Federal Surplus/Deficit	653	-802	548	-540	1549	681	2813	3113	3743	3867	3328	3138	3185	2803
1987 Federal Surplus/Deficit	1938	909	677	-899	652	1234	1047	-615	2142	1865	2729	3414	2607	1712
1988 Federal Surplus/Deficit	654	-853	705	-955	96	-299	-59	-121	648	56	2273	2617	1429	2262
1989 Federal Surplus/Deficit	1120	268	871	-885	-322	384	744	630	1941	3622	3282	3249	2619	2030
1990 Federal Surplus/Deficit	1211	53	765	-773	570	1334	3058	2882	2760	3138	3413	3177	3255	2862
1991 Federal Surplus/Deficit	2307	1745	725	-851	2660	2101	3273	3060	2760	3726	3084	3394	3133	3313
1992 Federal Surplus/Deficit	2618	2489	996	-730	266	335	1844	291	2752	1173	2146	2716	2150	1519

**Table A-30: Federal Surplus/Deficit - By Water Year
 PNW Loads and Resource Study
 2020 - 2021 Operating Year
 [76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	647	-873	464	-910	182	344	501	-665	608	1564	1647	3415	2523	2551
<i>1994 Federal Surplus/Deficit</i>	1345	432	983	-845	725	382	314	866	841	227	2491	2661	2206	1777
<i>1995 Federal Surplus/Deficit</i>	1157	-94	1059	-959	-225	-255	616	2758	2822	3706	2789	3266	3409	3018
<i>1996 Federal Surplus/Deficit</i>	1639	989	1770	132	2828	3093	3487	3322	3620	3901	3665	3500	3557	3598
<i>1997 Federal Surplus/Deficit</i>	2590	2113	665	-145	627	1835	3560	3207	3744	3835	3561	3373	3515	3578
<i>1998 Federal Surplus/Deficit</i>	2557	2430	2406	2693	2302	1723	2585	2580	2577	2701	3183	3453	3574	2919

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Monthly Federal System 70-Water Year
Surplus/Deficit
120-Hour Capacity in Megawatts

For OY 2012 – 2021

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1182	-1773	-361	52	555	-544	98	-113	-103	-568	-1.3	1778	2287	917
1930 Federal Surplus/Deficit	-509	-2162	-535	-189	449	-516	248	-134	296	-627	-589	1640	1044	1726
1931 Federal Surplus/Deficit	-1357	-1946	-783	-563	696	-414	46	-89	-238	-198	-1809	2576	276	1495
1932 Federal Surplus/Deficit	321	-1417	-138	-389	69	-631	-454	-924	1602	1578	3679	4252	4257	1632
1933 Federal Surplus/Deficit	-488	-1001	6.0	-13	26	999	2597	3055	2831	2173	1741	3769	4395	3532
1934 Federal Surplus/Deficit	2513	1144	384	966	3148	3883	4368	4146	3659	3992	3657	3900	3317	1597
1935 Federal Surplus/Deficit	-1189	-2070	-329	-321	-195	-426	2242	2756	1887	2309	1308	3449	2561	2683
1936 Federal Surplus/Deficit	1819	-1370	-687	-188	498	-589	-352	-108	138	574	3236	4156	3744	1869
1937 Federal Surplus/Deficit	219	-1444	-912	-218	801	-420	288	-276	-144	-1292	-1640	2457	1518	1677
1938 Federal Surplus/Deficit	463	-1154	-362	-263	-110	310	2303	2566	2662	3065	3628	4116	3525	2524
1939 Federal Surplus/Deficit	-634	-1993	108	146	406	-633	487	326	644	2700	2444	3897	2027	1588
1940 Federal Surplus/Deficit	-1285	-2325	-997	65	848	284	109	861	1974	2324	2738	3647	2903	1109
1941 Federal Surplus/Deficit	-1659	-2285	-404	226	163	167	-186	-61	173	-116	528	2961	1728	1607
1942 Federal Surplus/Deficit	-47	-1180	398	-429	695	1069	2514	555	276	41	2069	3303	3527	2941
1943 Federal Surplus/Deficit	1856	-150	-142	-10	-131	-68	3037	3287	2242	4193	4139	4040	4259	2416
1944 Federal Surplus/Deficit	1128	-1693	-1348	-141	541	-587	223	222	544	-751	780	1738	53	812
1945 Federal Surplus/Deficit	-181	-1555	51	-466	321	-1070	-345	-540	-131	-1288	-1597	3725	3183	983
1946 Federal Surplus/Deficit	-211	-1799	-760	-426	280	385	1974	1907	2780	3440	3965	4096	3776	2657
1947 Federal Surplus/Deficit	1189	-1125	-45	-184	632	3168	3653	3917	3158	2513	2229	4027	3924	2833
1948 Federal Surplus/Deficit	844	-1552	-218	2526	2157	1936	3584	3002	2324	2473	3522	4376	4354	3247
1949 Federal Surplus/Deficit	2359	1199	269	315	474	535	1875	777	3569	3207	3725	4334	3728	997
1950 Federal Surplus/Deficit	-907	-2457	-1256	-162	383	-288	3351	3554	3866	3786	3153	4096	4000	2872
1951 Federal Surplus/Deficit	1567	-50	-4.6	942	2551	3399	4201	4336	4219	3823	3612	4097	3687	3239
1952 Federal Surplus/Deficit	2226	-1016	-271	1792	1381	1971	3215	3097	2916	3864	3963	4320	3898	2748
1953 Federal Surplus/Deficit	1091	-1313	-816	-202	450	-538	1232	1986	2107	1710	1897	4008	4390	3254
1954 Federal Surplus/Deficit	1348	-1082	-212	295	697	1363	3428	3553	2726	2785	2454	4108	3980	3664
1955 Federal Surplus/Deficit	3030	2998	2085	340	1557	979	838	-29	483	-381	1318	3636	4351	3757
1956 Federal Surplus/Deficit	2535	734	-499	425	1954	3292	4067	4133	3893	3545	4010	4201	4319	3356
1957 Federal Surplus/Deficit	1474	-282	-84	517	464	1435	2018	739	2771	3936	2686	4361	4349	2182
1958 Federal Surplus/Deficit	-89	-1992	-381	-36	608	-454	2427	2600	2207	2937	3055	4341	4296	2100
1959 Federal Surplus/Deficit	-81	-1386	-516	-215	1201	2693	3828	3853	3434	3191	2370	3777	4057	2670
1960 Federal Surplus/Deficit	1768	-494	2408	3232	3197	2812	3001	2354	2784	4246	3409	3815	3772	2613
1961 Federal Surplus/Deficit	512	-1758	-146	129	554	511	2591	2955	3578	2840	1938	4035	4194	2156
1962 Federal Surplus/Deficit	693	-628	-721	-493	508	222	2181	2270	608	3938	3845	4068	4018	898
1963 Federal Surplus/Deficit	139	-1326	-762	562	1540	2526	2799	2455	2139	1179	1553	3671	3332	2720
1964 Federal Surplus/Deficit	1582	-970	-170	-145	272	631	1310	1350	729	3084	1876	3869	4268	3555
1965 Federal Surplus/Deficit	2527	-255	649	992	1185	3342	4462	4198	3784	2482	3941	4074	4049	2704
1966 Federal Surplus/Deficit	1933	690	38	461	858	907	2073	1908	332	3795	2366	3606	3023	2817
1967 Federal Surplus/Deficit	1452	-1281	-668	-237	281	929	3692	3885	2930	1642	-71	3813	3998	3032
1968 Federal Surplus/Deficit	2136	-675	-13	258	933	957	3227	3043	2740	1126	868	2957	3596	3018
1969 Federal Surplus/Deficit	2047	453	1314	1046	2128	2037	4081	3993	3152	3691	3667	4258	3958	2951
1970 Federal Surplus/Deficit	745	-1902	-478	97	729	-300	2287	1688	1737	2292	1394	3710	4236	2076
1971 Federal Surplus/Deficit	-176	-1971	-789	-228	443	-88	4062	4319	3688	3726	3398	4237	4289	3513
1972 Federal Surplus/Deficit	2731	1131	197	484	669	1062	3975	4338	4493	4137	2930	4217	4231	3581
1973 Federal Surplus/Deficit	3013	2299	358	317	795	769	2281	787	651	-1284	456	2978	2404	1102
1974 Federal Surplus/Deficit	-1389	-2386	-1007	-432	62	1139	4648	4289	4205	4002	3949	4180	4294	3805
1975 Federal Surplus/Deficit	2398	1252	-58	-356	570	298	2651	2544	2479	1405	1566	4084	4339	3698
1976 Federal Surplus/Deficit	838	-220	352	1167	2512	3847	3861	4045	3897	3921	3742	4181	4043	3378
1977 Federal Surplus/Deficit	3054	3062	3224	360	640	-428	190	361	473	-1402	324	1512	-138	355
1978 Federal Surplus/Deficit	181	-1074	-163	-636	-200	1504	1973	2241	1969	3524	2090	3829	2876	2789
1979 Federal Surplus/Deficit	675	-962	1392	615	691	-324	1729	16	2442	1306	1904	4098	2266	1052
1980 Federal Surplus/Deficit	-1560	-2308	-987	-337	477	-880	496	52	-190	2597	3012	4238	3913	1547
1981 Federal Surplus/Deficit	-410	-1946	-194	170	541	2971	3404	2940	2662	57	1656	3707	4314	3297
1982 Federal Surplus/Deficit	2733	1877	-191	170	1011	1484	2776	4340	4244	3400	2852	4114	4104	3212
1983 Federal Surplus/Deficit	2634	649	1243	1165	1114	1775	3511	3569	4165	3410	2778	4146	3964	3213
1984 Federal Surplus/Deficit	2562	609	356	328	2739	1712	3427	3651	3476	4128	3804	4113	4329	3158
1985 Federal Surplus/Deficit	1679	-1388	220	174	1005	822	2572	1437	332	2981	3063	4077	2847	114
1986 Federal Surplus/Deficit	-2060	-2406	-672	-214	1485	93	2461	3465	4435	3645	3407	3556	3638	2365
1987 Federal Surplus/Deficit	855	-1687	-869	-571	778	778	580	-766	1596	699	1469	4018	2908	806
1988 Federal Surplus/Deficit	-1191	-2412	-1121	-626	301	-946	-308	-322	25	-888	838	2792	1546	1525
1989 Federal Surplus/Deficit	228	-1377	-537	-573	-36	-239	325	345	1363	2750	3346	3716	2923	1206
1990 Federal Surplus/Deficit	-2069	-2268	-750	-442	689	929	2807	3337	2343	2082	3790	3639	3919	2471
1991 Federal Surplus/Deficit	1270	-474	-911	-539	2604	2031	3452	3638	2803	3074	2592	4012	3615	3348
1992 Federal Surplus/Deficit	2607	402	-589	-399	455	-296	1306	38	2348	61	691	2895	2330	412

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-1815	-2192	-1314	-580	390	-289	119	-1422	-12	433	195	3946	2744	1943
<i>1994 Federal Surplus/Deficit</i>	438	-1012	-1333	-533	812	-238	-27	568	218	-738	1113	2844	2392	889
<i>1995 Federal Surplus/Deficit</i>	-1440	-2292	-1139	-647	47	-902	230	2324	2882	2923	1571	3685	3795	2752
<i>1996 Federal Surplus/Deficit</i>	305	-1331	-280	384	3330	3908	4464	4384	4191	3696	4157	4224	4276	3633
<i>1997 Federal Surplus/Deficit</i>	2501	-391	-181	148	760	1576	4544	4269	4381	3776	4060	4075	4231	3597
<i>1998 Federal Surplus/Deficit</i>	2361	487	1347	2779	2165	1442	2128	2433	2281	1543	2524	4269	4306	2578

Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1609	94	609	36	584	-463	399	79	191	-144	435	1263	1813	878
1930 Federal Surplus/Deficit	945	-389	309	-202	477	-434	549	59	592	-202	-158	1126	555	1715
1931 Federal Surplus/Deficit	995	-176	345	-572	733	-341	347	103	56	225	-1376	2052	-253	1479
1932 Federal Surplus/Deficit	223	-1087	-99	-402	84	-547	-425	-729	1905	1995	4122	3823	3642	1617
1933 Federal Surplus/Deficit	1137	510	805	-28	34	1035	2877	3249	3149	2588	2200	3298	3774	3517
1934 Federal Surplus/Deficit	2359	2129	481	952	3084	3772	4619	4303	3974	4351	4078	3443	2808	1584
1935 Federal Surplus/Deficit	30	-408	204	-335	-208	-346	2710	2685	2194	2723	1761	2975	2080	2679
1936 Federal Surplus/Deficit	1903	365	-226	-202	528	-509	-903	84	433	994	3700	3726	3227	1862
1937 Federal Surplus/Deficit	1156	-12	-76	-231	839	-346	589	-83	150	-871	-1207	1955	1030	1663
1938 Federal Surplus/Deficit	803	-561	414	-275	-108	364	2750	2709	2787	3474	4074	3670	2978	2518
1939 Federal Surplus/Deficit	781	-35	438	130	430	-544	788	517	941	3113	2909	3451	1591	1572
1940 Federal Surplus/Deficit	625	-646	125	49	888	335	410	1051	2281	2738	3199	3192	2457	1077
1941 Federal Surplus/Deficit	121	-948	148	209	182	223	114	131	469	306	971	2470	1271	1594
1942 Federal Surplus/Deficit	758	67	606	-441	729	1105	2795	746	572	464	2532	2819	2959	2936
1943 Federal Surplus/Deficit	1735	966	1008	-26	-130	-0.9	3305	3475	2551	4537	4522	3598	3587	2388
1944 Federal Surplus/Deficit	1230	393	19	-154	569	-503	524	413	841	-326	1226	1226	-497	770
1945 Federal Surplus/Deficit	373	-494	442	-477	345	-965	-46	-346	163	-867	-1165	3266	2670	947
1946 Federal Surplus/Deficit	1168	5.3	204	-434	298	438	2266	2099	3096	3827	4396	3636	3237	2568
1947 Federal Surplus/Deficit	1701	790	569	-197	662	3181	3905	4100	3479	2927	2692	3590	3452	2826
1948 Federal Surplus/Deficit	1640	686	367	2515	2191	1959	3844	3190	2635	2886	3970	3924	3716	3234
1949 Federal Surplus/Deficit	2309	2077	833	298	500	583	2165	968	3889	3607	4164	3923	3282	961
1950 Federal Surplus/Deficit	-4.1	-1149	-67	-175	405	-215	3606	3743	4190	4172	3609	3652	3343	2841
1951 Federal Surplus/Deficit	2231	1819	511	927	2558	3413	4451	4505	4537	4195	4036	3645	3107	3217
1952 Federal Surplus/Deficit	2159	1237	549	1782	1425	1995	3479	3484	2991	4248	4389	3880	3455	2740
1953 Federal Surplus/Deficit	1593	492	-120	-215	476	-457	1531	2295	2305	2126	2357	3551	3879	3240
1954 Federal Surplus/Deficit	1997	1343	490	278	730	1394	3690	3742	3041	3198	2919	3666	3290	3635
1955 Federal Surplus/Deficit	2515	2637	2546	323	1601	1015	1138	163	780	43	1771	3145	3729	3732
1956 Federal Surplus/Deficit	2366	1592	231	408	1992	3305	4323	4295	4217	3920	4415	3731	3642	3340
1957 Federal Surplus/Deficit	1860	1217	380	500	489	1465	2306	929	3086	4329	3150	3922	3710	2183
1958 Federal Surplus/Deficit	759	-186	330	-51	639	-370	2707	2785	2517	3348	3522	3923	3691	2099
1959 Federal Surplus/Deficit	939	243	248	-228	1243	2705	4083	4036	3759	3600	2817	3295	3461	2650
1960 Federal Surplus/Deficit	2291	1569	2738	3230	3129	2823	3269	2548	3099	4609	3841	3348	3293	2606
1961 Federal Surplus/Deficit	1616	321	26	113	583	558	2865	3142	3898	3251	2398	3587	3609	2155
1962 Federal Surplus/Deficit	923	584	132	-500	537	279	2469	2463	905	4309	4265	3629	3482	858
1963 Federal Surplus/Deficit	1183	503	-23	545	1584	2538	3068	2640	2448	1598	2008	3210	2784	2717
1964 Federal Surplus/Deficit	1772	599	539	-159	291	675	1608	1541	1027	3494	2335	3408	3601	3548
1965 Federal Surplus/Deficit	2318	1415	1104	979	1228	3356	4716	4360	4108	2883	4355	3632	3541	2701
1966 Federal Surplus/Deficit	2230	1933	175	444	896	944	2363	2100	628	4173	2821	3130	2508	2804
1967 Federal Surplus/Deficit	1779	616	173	-251	301	968	3938	4067	3249	2059	364	3350	3364	3002
1968 Federal Surplus/Deficit	2071	983	426	241	971	994	3492	3401	2840	1544	1313	2433	3155	2998
1969 Federal Surplus/Deficit	2188	1678	1756	1034	2162	2060	4337	4169	3473	4073	4091	3788	3426	2932
1970 Federal Surplus/Deficit	1294	139	265	81	764	-225	2567	2001	1924	2707	1846	3252	3687	2073
1971 Federal Surplus/Deficit	1222	288	66	-242	467	-20	4318	4462	4013	4110	3836	3779	3606	3501
1972 Federal Surplus/Deficit	2464	2002	760	467	700	1099	4221	4507	4802	4488	3359	3758	3674	3563
1973 Federal Surplus/Deficit	2540	2470	1035	301	830	811	2568	978	948	-857	897	2487	1958	1070
1974 Federal Surplus/Deficit	643	-545	358	-443	71	1174	4922	4433	4529	4363	4351	3732	3625	3788
1975 Federal Surplus/Deficit	2362	2173	662	-365	599	353	2926	2738	2791	1822	2021	3635	3707	3670
1976 Federal Surplus/Deficit	2052	1617	1045	1154	2529	3850	4115	4223	4222	4296	4165	3744	3484	3355
1977 Federal Surplus/Deficit	2587	2671	2912	343	672	-353	491	552	770	-981	763	996	-695	299
1978 Federal Surplus/Deficit	349	-1375	-125	-642	-213	1523	2263	2435	2277	3910	2553	3387	2392	2787
1979 Federal Surplus/Deficit	1447	575	1991	599	725	-247	2022	208	2754	1725	2363	3668	1853	1018
1980 Federal Surplus/Deficit	-38	-818	-42	-349	505	-778	798	244	104	3010	3469	3804	3501	1530
1981 Federal Surplus/Deficit	631	-567	425	154	570	2983	3660	3128	2977	479	2113	3247	3743	3279
1982 Federal Surplus/Deficit	2406	2270	555	154	1052	1513	3048	4497	4564	3802	3313	3677	3447	3188
1983 Federal Surplus/Deficit	2405	2214	1813	1153	1156	1801	3768	3757	4488	3798	3234	3710	3448	3198
1984 Federal Surplus/Deficit	2326	1740	892	311	2732	1738	3687	3839	3795	4506	4231	3680	3764	3138
1985 Federal Surplus/Deficit	1763	640	626	157	1044	862	2853	1628	628	3392	3529	3652	2341	40
1986 Federal Surplus/Deficit	-157	-1582	14	-227	1529	153	2738	3650	4744	4019	3847	3088	3092	2366
1987 Federal Surplus/Deficit	1399	270	57	-578	812	818	881	-571	1899	1119	1923	3587	2469	765
1988 Federal Surplus/Deficit	-156	-1647	80	-633	327	-844	-8.7	-130	320	-462	1284	2295	1069	1507
1989 Federal Surplus/Deficit	484	-423	169	-575	-30	-169	626	536	1664	3151	3788	3243	2424	1178
1990 Federal Surplus/Deficit	576	-656	112	-451	723	965	3216	3339	2654	2497	4233	3192	3276	2457
1991 Federal Surplus/Deficit	2003	1188	88	-540	2611	2053	3819	3803	2896	3484	3043	3577	3058	3324
1992 Federal Surplus/Deficit	2411	2069	266	-408	482	-223	1602	230	2660	482	1136	2409	1898	357

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-163	-1668	-181	-588	415	-215	420	-1213	282	854	631	3507	2310	1932
<i>1994 Federal Surplus/Deficit</i>	716	-246	250	-534	850	-170	273	759	513	-313	1562	2357	1949	850
<i>1995 Federal Surplus/Deficit</i>	521	-816	329	-649	59	-800	531	2509	3200	3335	2026	3225	3396	2745
<i>1996 Federal Surplus/Deficit</i>	1037	357	936	367	3248	3801	4719	4527	4509	4055	4550	3790	3652	3602
<i>1997 Federal Surplus/Deficit</i>	2383	1594	64	132	794	1605	4795	4411	4692	4134	4450	3613	3713	3587
<i>1998 Federal Surplus/Deficit</i>	2349	1968	1763	2771	2197	1471	2418	2791	2413	1960	2990	3868	3686	2587

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1674	51	648	77	629	-424	193	-110	-10	-340	277	1974	2570	744
1930 Federal Surplus/Deficit	1016	-426	343	-173	522	-396	343	-131	393	-398	-321	1853	1360	1576
1931 Federal Surplus/Deficit	1066	-217	381	-560	772	-301	141	-86	-145	25	-1581	2733	564	1358
1932 Federal Surplus/Deficit	300	-1102	-72	-374	137	-510	-630	-924	1711	1801	3861	4433	4316	1493
1933 Federal Surplus/Deficit	1207	474	846	10	91	1074	2652	3074	2954	2401	2021	3893	4387	3285
1934 Federal Surplus/Deficit	2406	2222	518	1008	3157	3839	4376	4101	3751	4069	3813	4004	3447	1421
1935 Federal Surplus/Deficit	107	-446	236	-303	-139	-307	2487	2510	2000	2538	1592	3545	2798	2501
1936 Federal Surplus/Deficit	1961	327	-201	-171	572	-470	-1110	-105	233	793	3482	4314	3935	1729
1937 Federal Surplus/Deficit	1225	-55	-49	-205	877	-306	382	-274	-52	-1049	-1411	2671	1816	1507
1938 Federal Surplus/Deficit	876	-594	451	-252	-49	407	2527	2534	2593	3290	3830	4263	3700	2354
1939 Federal Surplus/Deficit	854	-77	475	174	479	-508	581	331	743	2929	2715	4027	2328	1408
1940 Federal Surplus/Deficit	699	-675	156	95	924	378	204	869	2087	2553	2965	3802	3169	932
1941 Federal Surplus/Deficit	198	-967	181	261	233	266	-91	-58	269	105	812	3139	2056	1456
1942 Federal Surplus/Deficit	831	24	646	-419	770	1144	2570	562	373	262	2343	3472	3669	2767
1943 Federal Surplus/Deficit	1796	949	1049	14	-71	41	3075	3300	2358	4326	4293	4151	4264	2214
1944 Federal Surplus/Deficit	1299	352	49	-126	615	-465	318	227	644	-522	1065	1957	318	646
1945 Federal Surplus/Deficit	449	-530	479	-460	393	-696	-251	-539	-39	-1045	-1369	3883	3373	820
1946 Federal Surplus/Deficit	1238	-37	239	-426	349	481	2049	1922	2902	3637	4157	4156	4014	2396
1947 Federal Surplus/Deficit	1765	760	607	-171	706	3161	3662	3915	3283	2742	2503	4173	4159	2658
1948 Federal Surplus/Deficit	1704	653	403	2516	2223	1984	3611	3015	2441	2702	3729	4451	4384	3051
1949 Federal Surplus/Deficit	2355	2161	873	348	547	625	1947	-784	3687	3427	3927	4477	4027	807
1950 Federal Surplus/Deficit	73	-1160	-44	-145	454	-175	3362	3566	3984	3972	3408	4191	3991	2668
1951 Federal Surplus/Deficit	2284	1869	549	983	2590	3385	4215	4312	4314	4003	3809	4198	3847	3033
1952 Federal Surplus/Deficit	2215	1232	587	1821	1456	2021	3382	3083	2797	4047	4163	4401	4178	2579
1953 Federal Surplus/Deficit	1658	453	-97	-189	523	-419	1321	2118	2112	1935	2175	4132	4495	3069
1954 Federal Surplus/Deficit	2056	1347	527	328	772	1430	3457	3565	2848	3015	2724	4228	4000	3409
1955 Federal Surplus/Deficit	2561	2781	2577	373	1631	1054	930	-25	582	-156	1602	3781	4297	3508
1956 Federal Surplus/Deficit	2412	1616	263	460	2022	3280	4093	4100	4010	3736	4152	4268	4283	3138
1957 Federal Surplus/Deficit	1921	1212	416	554	536	1501	2087	746	2893	4116	2951	4444	4404	2041
1958 Federal Surplus/Deficit	832	-226	365	-14	683	-333	2485	2610	2324	3165	3309	4450	4417	1950
1959 Federal Surplus/Deficit	1010	201	282	-201	1276	2703	3850	3851	3560	3411	2592	3868	4098	2490
1960 Federal Surplus/Deficit	2338	1595	2779	3204	3206	2815	3038	2372	2906	4323	3597	3921	4023	2429
1961 Federal Surplus/Deficit	1681	280	55	157	628	601	2640	2968	3700	3068	2215	4155	4247	2010
1962 Federal Surplus/Deficit	995	548	163	-495	582	322	2248	2288	708	4093	3998	4172	4246	731
1963 Federal Surplus/Deficit	1252	465	5.9	600	1614	2542	2839	2465	2255	1401	1835	3816	3490	2544
1964 Federal Surplus/Deficit	1834	563	577	-129	342	717	1397	1362	830	3311	2156	4003	4210	3328
1965 Federal Surplus/Deficit	2365	1426	1145	1034	1261	3329	4476	4163	3901	2712	4102	4224	4289	2532
1966 Federal Surplus/Deficit	2276	1996	139	499	934	984	2145	1923	429	3943	2636	3713	3217	2612
1967 Federal Surplus/Deficit	1842	581	205	-219	351	1008	3694	3881	3054	1867	207	3933	3978	2826
1968 Federal Surplus/Deficit	2119	964	464	289	1009	1034	3260	3226	2646	1348	1152	3125	3862	2808
1969 Federal Surplus/Deficit	2236	1712	1788	1088	2194	2084	4101	3976	3277	3864	3820	4321	4180	2753
1970 Federal Surplus/Deficit	1362	97	301	123	805	-185	2347	1823	1730	2520	1677	3863	4389	1934
1971 Federal Surplus/Deficit	1292	246	96	-212	516	22	4087	4263	3814	3914	3606	4309	4286	3277
1972 Federal Surplus/Deficit	2510	2073	800	520	743	1138	3980	4316	4565	4237	3180	4287	4327	3318
1973 Federal Surplus/Deficit	2586	2599	1076	350	870	853	2348	795	751	-1043	739	3179	2703	923
1974 Federal Surplus/Deficit	717	-578	393	-424	127	1213	4688	4235	4314	4159	4104	4267	4272	3564
1975 Federal Surplus/Deficit	2408	2282	658	-352	644	396	2702	2563	2597	1627	1848	4210	4386	3466
1976 Federal Surplus/Deficit	2111	1644	1086	1208	2564	3820	3882	4035	4014	4091	3911	4265	4252	3153
1977 Federal Surplus/Deficit	2634	2807	2959	394	715	-313	285	367	572	-1159	606	1784	145	181
1978 Federal Surplus/Deficit	425	-1373	-102	-640	-144	1546	2045	2299	2042	3679	2364	3950	3110	2618
1979 Federal Surplus/Deficit	1513	543	2015	654	767	-207	1807	19	2560	1528	2183	4231	2576	872
1980 Federal Surplus/Deficit	40	-843	-15	-326	550	-568	591	56	-98	2826	3230	4350	4222	1393
1981 Federal Surplus/Deficit	705	-600	463	201	615	2974	3427	2953	2783	278	1937	3875	4363	3095
1982 Federal Surplus/Deficit	2452	2374	594	199	1087	1547	2821	4298	4339	3605	3113	4323	4123	3034
1983 Federal Surplus/Deficit	2451	2320	1840	1207	1190	1824	3535	3575	4273	3605	3041	4318	4216	3027
1984 Federal Surplus/Deficit	2372	1778	932	362	2772	1769	3455	3662	3591	4281	4006	4302	4409	2985
1985 Federal Surplus/Deficit	1825	605	665	202	1081	904	2628	1449	429	3202	3316	4215	3054	-60
1986 Federal Surplus/Deficit	-80	-1565	39	-201	1559	196	2515	3466	4516	3828	3645	3711	3831	2194
1987 Federal Surplus/Deficit	1466	228	87	-575	853	860	675	-765	1705	919	1752	4160	3144	635
1988 Federal Surplus/Deficit	-80	-1669	105	-628	374	-621	-214	-320	119	-653	1122	2972	1856	1371
1989 Federal Surplus/Deficit	559	-460	203	-568	28	-128	420	350	1469	2980	3550	3832	3125	1029
1990 Federal Surplus/Deficit	650	-687	144	-440	764	1004	2987	3164	2461	2310	3991	3763	3974	2303
1991 Federal Surplus/Deficit	2058	1184	118	-534	2655	2074	3575	3625	2702	3297	2810	4138	3771	3120
1992 Federal Surplus/Deficit	2457	2145	301	-396	528	-182	1390	42	2467	281	975	3106	2658	221

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
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Continued

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-87	-1647	-160	-579	462	-175	214	-1413	80	653	474	4117	3031	1765
<i>1994 Federal Surplus/Deficit</i>	790	-287	285	-528	888	-128	68	575	314	-507	1397	3061	2706	712
<i>1995 Federal Surplus/Deficit</i>	596	-841	364	-642	114	-583	325	2594	2776	3152	1853	3842	4118	2585
<i>1996 Federal Surplus/Deficit</i>	1108	317	977	418	3338	3868	4480	4329	4286	3877	4320	4372	4392	3376
<i>1997 Federal Surplus/Deficit</i>	2429	1619	94	176	836	1629	4551	4208	4446	3949	4204	4148	4373	3346
<i>1998 Federal Surplus/Deficit</i>	2396	2037	1794	2762	2230	1504	2199	2616	2220	1767	2793	4473	4407	2477

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2014 - 2015 Operating Year
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1574	-50	483	-70	256	-800	-197	-508	-374	-728	-87	1039	1315	587
1930 Federal Surplus/Deficit	912	-527	175	-323	150	-771	-43	-529	25	-787	-688	944	210	1449
1931 Federal Surplus/Deficit	962	-318	214	-715	395	-680	-250	-483	-508	-354	-1956	1800	-552	1209
1932 Federal Surplus/Deficit	191	-1201	-246	-525	-234	-884	-1046	-1324	1337	1441	3520	3537	2985	1349
1933 Federal Surplus/Deficit	1104	374	683	-137	-281	684	2284	2674	2589	2054	1659	3019	3068	3254
1934 Federal Surplus/Deficit	2308	2112	353	864	2745	3355	3950	3692	3402	3698	3418	3158	2230	1317
1935 Federal Surplus/Deficit	-2.3	-546	67	-453	-505	-683	2116	2120	1627	2193	1230	2692	1541	2430
1936 Federal Surplus/Deficit	1856	226	-376	-320	198	-846	-1548	-502	-133	429	3119	3435	2809	1600
1937 Federal Surplus/Deficit	1123	-155	-223	-356	499	-685	-1.3	-672	-415	-1450	-1786	1723	662	1396
1938 Federal Surplus/Deficit	771	-694	284	-404	-423	21	2156	2140	2223	2910	3470	3366	2476	2262
1939 Federal Surplus/Deficit	749	-178	309	28	107	-880	199	-66	373	2586	2352	3170	1211	1303
1940 Federal Surplus/Deficit	593	-775	-14	-51	544	-8.2	-186	474	1714	2205	2635	2903	1991	793
1941 Federal Surplus/Deficit	88	-1066	11	116	-138	-120	-491	-456	-98	-271	449	2192	923	1327
1942 Federal Surplus/Deficit	726	-77	481	-571	395	754	2209	166	4.5	-112	1981	2523	2614	2701
1943 Federal Surplus/Deficit	1698	849	885	-133	-445	-340	2702	2897	1986	3899	3910	3291	2839	2149
1944 Federal Surplus/Deficit	1197	252	-123	-276	242	-839	-69	-170	273	-911	703	1017	-797	476
1945 Federal Surplus/Deficit	341	-630	312	-613	21	-1295	-657	-938	-401	-1446	-1744	2978	2124	658
1946 Federal Surplus/Deficit	1136	-138	71	-582	-22	95	1689	1530	2536	3235	3788	3312	2792	2320
1947 Federal Surplus/Deficit	1665	659	442	-322	333	2767	3285	3508	2923	2384	2128	3307	2920	2585
1948 Federal Surplus/Deficit	1604	553	236	2368	1820	1595	3229	2611	2070	2341	3387	3667	2967	3001
1949 Federal Surplus/Deficit	2256	2064	709	203	175	238	1587	389	3323	3023	3548	3646	2742	673
1950 Federal Surplus/Deficit	-37	-1258	-220	-295	83	-554	3002	3164	3627	3572	2984	3349	2570	2612
1951 Federal Surplus/Deficit	2182	1772	384	840	2175	2994	3971	3929	3583	3597	3419	3337	2785	2984
1952 Federal Surplus/Deficit	2118	1132	422	1666	1069	1630	3004	2680	2429	3632	3779	3594	3029	2495
1953 Federal Surplus/Deficit	1558	352	-274	-340	150	-794	977	1697	1739	1584	1813	3274	3174	3006
1954 Federal Surplus/Deficit	1959	1248	361	183	398	1040	3078	3163	2481	2655	2346	3359	2594	3383
1955 Federal Surplus/Deficit	2457	2669	2412	228	1239	664	555	-423	212	-539	1240	2867	2970	3478
1956 Federal Surplus/Deficit	2314	1518	95	315	1621	2887	3695	3689	3655	3307	3746	3438	2815	3103
1957 Federal Surplus/Deficit	1823	1113	249	410	165	1110	1728	350	2525	3744	2551	3681	3025	1929
1958 Federal Surplus/Deficit	727	-327	197	-162	309	-707	2114	2204	1953	2807	2931	3680	3164	1843
1959 Federal Surplus/Deficit	906	100	113	-352	892	2310	3458	3443	3205	3044	2254	3008	2669	2417
1960 Federal Surplus/Deficit	2238	1497	2608	3102	2795	2424	2664	1981	2538	3959	3205	3058	2741	2360
1961 Federal Surplus/Deficit	1581	179	-117	11	255	213	2268	2739	3206	2714	1839	3302	2879	1903
1962 Federal Surplus/Deficit	890	448	-7	-653	209	-63	1890	1897	337	3685	3592	3325	3005	566
1963 Federal Surplus/Deficit	1150	365	-166	456	1223	2147	2466	2058	1883	1044	1473	2920	2228	2465
1964 Federal Surplus/Deficit	1736	463	412	-279	-29	328	1029	969	459	2970	1794	3142	3145	3304
1965 Federal Surplus/Deficit	2266	1327	981	891	877	2937	4070	3747	3544	2304	3728	3364	3062	2449
1966 Federal Surplus/Deficit	2175	1899	36	355	556	594	1786	1532	61	3585	2205	2844	1982	2555
1967 Federal Surplus/Deficit	1743	480	36	-369	-20	618	3325	3474	2691	1515	-158	3072	2489	2778
1968 Federal Surplus/Deficit	2013	864	298	144	631	644	2884	2823	2278	991	790	2150	2655	2761
1969 Federal Surplus/Deficit	2132	1614	1623	944	1792	1695	3709	3568	2917	3448	3416	3508	2913	2693
1970 Federal Surplus/Deficit	1260	-4.0	134	-23	429	-563	1974	1431	1356	2173	1315	2973	3068	1816
1971 Federal Surplus/Deficit	1189	145	-76	-361	144	-359	3690	3845	3461	3513	3227	3475	2845	3266
1972 Federal Surplus/Deficit	2416	1976	636	376	369	748	3604	3904	4217	3849	2714	3450	2932	3306
1973 Federal Surplus/Deficit	2481	2492	912	205	494	464	1989	400	380	-1446	377	2219	1509	786
1974 Federal Surplus/Deficit	612	-678	226	-577	-245	819	4249	3815	3965	3729	3700	3411	2845	3521
1975 Federal Surplus/Deficit	2312	2185	538	-507	271	11	2331	2168	2227	1272	1486	3326	3034	3454
1976 Federal Surplus/Deficit	2014	1546	923	1065	2150	3433	3491	3626	3660	3695	3521	3423	2968	3125
1977 Federal Surplus/Deficit	2532	2691	2788	249	340	-691	-102	-30	202	-1560	243	911	-948	-9.8
1978 Federal Surplus/Deficit	317	-1471	-280	-799	-510	1147	1685	1909	1669	3348	1982	3097	1892	2540
1979 Federal Surplus/Deficit	1412	443	1849	511	392	-585	1446	-379	2190	1172	1822	3373	1452	732
1980 Federal Surplus/Deficit	-71	-943	-189	-477	178	-1113	207	-342	-461	2476	2898	3543	3005	1259
1981 Federal Surplus/Deficit	599	-701	297	56	242	2584	3041	2550	2416	-95	1575	2970	3059	3043
1982 Federal Surplus/Deficit	2349	2265	429	53	706	1156	2449	3887	3956	3202	2696	3414	2710	2968
1983 Federal Surplus/Deficit	2355	2223	1675	1063	808	1425	3150	3168	3921	3201	2622	3429	2950	2968
1984 Federal Surplus/Deficit	2273	1681	769	217	2358	1379	3072	3257	3229	3884	3612	3402	3052	2919
1985 Federal Surplus/Deficit	1726	504	500	56	701	514	2257	1057	61	2836	2943	3358	1816	-262
1986 Federal Surplus/Deficit	-190	-1662	-135	-352	1169	-188	2144	3056	4164	3417	3221	2803	2780	2115
1987 Federal Surplus/Deficit	1365	128	-84	-733	477	470	293	-1165	1331	556	1390	3303	2012	471
1988 Federal Surplus/Deficit	-190	-1739	-61	-786	2.1	-1178	-619	-718	-246	-1049	760	2030	716	1236
1989 Federal Surplus/Deficit	452	-561	34	-724	-345	-508	33	-46	1095	2591	3184	2968	1893	897
1990 Federal Surplus/Deficit	544	-787	-26	-596	388	614	2613	2761	2090	1936	3641	2900	2636	2216
1991 Federal Surplus/Deficit	1952	1084	-52	-690	2241	1686	3208	3222	2334	2943	2475	3249	2691	3077
1992 Federal Surplus/Deficit	2361	2033	133	-551	156	-561	1025	-356	2097	-92	613	2153	1526	49

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-197	-1743	-339	-736	91	-553	-178	-1812	-282	283	110	3214	1861	1673
<i>1994 Federal Surplus/Deficit</i>	684	-388	117	-684	510	-509	-328	179	-54	-899	1036	2093	1542	560
<i>1995 Federal Surplus/Deficit</i>	489	-940	196	-798	-257	-1135	-66	2423	2165	2808	1488	2937	2913	2502
<i>1996 Federal Surplus/Deficit</i>	1005	216	814	274	2933	3384	4058	3911	3942	3434	3920	3531	3138	3361
<i>1997 Federal Surplus/Deficit</i>	2331	1520	-78	29	460	1230	4138	3790	4100	3524	3793	3316	3041	3336
<i>1998 Federal Surplus/Deficit</i>	2297	1940	1629	2626	1827	1114	1833	2212	1847	1413	2430	3625	3153	2341

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1459	-188	379	-120	190	-838	-211	-388	-409	-761	-109	1927	2265	607
1930 Federal Surplus/Deficit	775	-661	63	-382	84	-809	-58	-411	-3.9	-821	-720	1800	1143	1472
1931 Federal Surplus/Deficit	826	-455	106	-788	330	-719	-264	-363	-545	-384	-2018	2698	387	1232
1932 Federal Surplus/Deficit	24	-1325	-372	-585	-301	-922	-1058	-1214	1320	1425	3451	4281	3819	1372
1933 Federal Surplus/Deficit	976	236	583	-189	-349	634	2475	2800	2105	2036	1638	3852	3885	3197
1934 Federal Surplus/Deficit	2211	2025	247	829	2673	3236	3850	3701	3343	3621	3348	3941	3044	1341
1935 Federal Surplus/Deficit	-179	-680	-49	-510	-572	-722	2083	2218	1610	2173	1212	3560	2442	2443
1936 Federal Surplus/Deficit	1758	89	-505	-378	133	-884	-1560	-382	-164	406	3062	4201	3591	1622
1937 Federal Surplus/Deficit	994	-293	-349	-418	435	-724	-16	-553	-451	-1491	-1848	2625	1573	1419
1938 Federal Surplus/Deficit	628	-827	176	-468	-492	-22	2124	2238	2204	2884	3407	4149	3325	2282
1939 Federal Surplus/Deficit	606	-316	203	-17	40	-917	184	57	348	2564	2322	3971	2098	1326
1940 Federal Surplus/Deficit	442	-906	-131	-96	481	-52	-200	597	1698	2186	2597	3741	2846	814
1941 Federal Surplus/Deficit	-85	-1193	-103	76	-205	-162	-504	-335	-128	-299	431	3065	1823	1350
1942 Federal Surplus/Deficit	581	-215	379	-636	330	704	2174	290	-24	-140	1954	3376	3450	2696
1943 Federal Surplus/Deficit	1588	717	786	-183	-514	-381	2658	2972	1969	3832	3820	4080	3710	2151
1944 Federal Surplus/Deficit	1070	113	-243	-336	176	-877	-84	-48	248	-945	685	1902	137	495
1945 Federal Surplus/Deficit	180	-763	205	-683	-45	-1327	-669	-825	-438	-1487	-1806	3834	2978	678
1946 Federal Surplus/Deficit	1006	-276	-41	-659	-89	51	1665	1644	2512	3200	3704	4104	3599	2327
1947 Federal Surplus/Deficit	1553	524	338	-384	267	2680	3219	3544	2890	2371	2108	4082	3726	2587
1948 Federal Surplus/Deficit	1490	416	127	2313	1759	1533	3168	2698	2052	2323	3325	4387	3800	2983
1949 Federal Surplus/Deficit	2159	1961	609	162	109	193	1561	513	3279	2999	3486	4403	3584	694
1950 Federal Surplus/Deficit	-215	-1381	-352	-353	16	-593	2949	3337	3477	3525	2939	4130	3421	2604
1951 Federal Surplus/Deficit	2086	1660	279	805	2113	2900	3874	3939	3527	3545	3352	4125	3599	2963
1952 Federal Surplus/Deficit	2015	1004	316	1622	1007	1569	2949	2766	2408	3589	3704	4331	3849	2501
1953 Federal Surplus/Deficit	1442	214	-407	-402	84	-832	959	1811	1722	1566	1790	4073	4000	2995
1954 Federal Surplus/Deficit	1853	1122	254	141	333	987	3023	3227	2457	2639	2320	4139	3446	3305
1955 Federal Surplus/Deficit	2362	2575	2288	187	1178	614	539	-302	186	-570	1222	3718	3795	3410
1956 Federal Surplus/Deficit	2217	1398	-20	276	1560	2796	3612	3704	3591	3264	3666	4214	3707	3080
1957 Federal Surplus/Deficit	1714	984	141	372	98	1056	1700	474	2503	3689	2515	4406	3878	1949
1958 Federal Surplus/Deficit	583	-463	85	-215	244	-745	2083	2307	1935	2785	2887	4390	3971	1864
1959 Federal Surplus/Deficit	769	-38	0.2	-414	830	2235	3386	3480	3161	3016	2232	3815	3569	2413
1960 Federal Surplus/Deficit	2141	1378	2495	3045	2722	2343	2617	2087	2516	3878	3150	3897	3664	2367
1961 Federal Surplus/Deficit	1466	41	-239	-35	189	168	2233	2824	3166	2696	1824	4075	3731	1920
1962 Federal Surplus/Deficit	751	311	-125	-732	143	-106	1861	2002	312	3620	3515	4113	3800	586
1963 Federal Surplus/Deficit	1022	227	-288	419	1162	2076	2424	2163	1866	1024	1454	3767	3071	2478
1964 Federal Surplus/Deficit	1625	326	308	-338	-96	282	1011	1089	435	2941	1772	3938	3961	3249
1965 Federal Surplus/Deficit	2169	1203	882	855	815	2844	3965	3758	3485	2288	3642	4117	3857	2461
1966 Federal Surplus/Deficit	2078	1790	-83	318	492	544	1760	1645	32	3532	2182	3698	2820	2555
1967 Federal Surplus/Deficit	1632	343	-79	-426	-87	570	3259	3507	2662	1497	-181	3882	3403	2760
1968 Federal Surplus/Deficit	1917	731	192	101	567	595	2834	2903	2257	971	773	3060	3466	2751
1969 Federal Surplus/Deficit	2036	1497	1510	909	1731	1632	3626	3597	2884	3405	3354	4267	3711	2681
1970 Federal Surplus/Deficit	1137	-142	24	-71	364	-602	1946	1547	1339	2155	1297	3789	3946	1837
1971 Federal Surplus/Deficit	1062	6.7	-197	-420	77	-399	3610	3845	3413	3471	3172	4241	3671	3227
1972 Federal Surplus/Deficit	2320	1870	536	337	304	699	3529	3918	4059	3779	2671	4229	3772	3244
1973 Federal Surplus/Deficit	2386	2409	813	163	430	418	1960	524	356	-1484	358	3118	2411	807
1974 Federal Surplus/Deficit	461	-810	116	-644	-313	768	4132	3815	3878	3671	3617	4197	3730	3441
1975 Federal Surplus/Deficit	2215	2088	436	-580	205	-31	2297	2269	2208	1253	1466	4114	3872	3401
1976 Federal Surplus/Deficit	1908	1428	823	1029	2087	3314	3421	3651	3594	3625	3442	4197	3782	3091
1977 Federal Surplus/Deficit	2439	2590	2572	209	275	-731	-116	94	177	-1601	223	1734	9.4	4.8
1978 Federal Surplus/Deficit	154	-1588	-417	-881	-577	1092	1942	1597	1652	3306	1964	3886	2765	2549
1979 Federal Surplus/Deficit	1295	307	1725	475	327	-623	1422	-258	2171	1153	1800	4146	2276	752
1980 Federal Surplus/Deficit	-252	-1072	-315	-542	112	-1149	193	-220	-497	2457	2854	4273	3803	1282
1981 Federal Surplus/Deficit	450	-833	191	13	176	2502	2981	2637	2393	-123	1554	3800	3890	2999
1982 Federal Surplus/Deficit	2252	2181	325	8.2	643	1102	2411	3893	3864	3164	2653	4161	3564	2951
1983 Federal Surplus/Deficit	2258	2126	1552	1028	745	1367	3094	3233	3837	3167	2586	4190	3752	2945
1984 Federal Surplus/Deficit	2176	1565	668	176	2294	1321	3020	3314	3190	3813	3536	4178	3937	2902
1985 Federal Surplus/Deficit	1615	368	396	9.8	638	467	2222	1176	32	2811	2898	4132	2646	-236
1986 Federal Surplus/Deficit	-381	-1773	-263	-414	1108	-230	2112	3124	3986	3372	3164	3653	3613	2130
1987 Federal Surplus/Deficit	1244	-11	-203	-815	413	423	278	-1054	1314	533	1371	4083	2830	491
1988 Federal Surplus/Deficit	-381	-1839	-180	-866	-64	-1215	-631	-601	-279	-1085	743	2941	1619	1259
1989 Federal Surplus/Deficit	296	-695	-79	-805	-414	-548	19	77	1077	2578	3134	3795	2748	919
1990 Federal Surplus/Deficit	391	-919	-143	-671	323	564	2570	2837	2071	1922	3561	3724	3492	2225
1991 Federal Surplus/Deficit	1856	956	-170	-771	2177	1622	3212	3254	2076	2921	2448	4071	3522	3039
1992 Federal Surplus/Deficit	2264	1945	22	-624	90	-600	1005	-235	2077	-119	596	3058	2407	64

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-388	-1853	-476	-812	24	-592	-191	-1706	-319	257	88	4016	2712	1696
<i>1994 Federal Surplus/Deficit</i>	538	-524	6.7	-765	446	-549	-341	303	-84	-934	1018	2998	2434	580
<i>1995 Federal Surplus/Deficit</i>	334	-1069	85	-879	-325	-1171	-79	2517	2145	2783	1470	3784	3737	2506
<i>1996 Federal Surplus/Deficit</i>	871	78	714	234	2857	3265	3952	3912	3844	3388	3828	4272	3945	3310
<i>1997 Federal Surplus/Deficit</i>	2234	1401	-198	-18	396	1175	4060	3797	3987	3461	3707	4089	3852	3272
<i>1998 Federal Surplus/Deficit</i>	2200	1833	1509	2567	1766	1059	1806	2309	1830	1395	2399	4346	3968	2355

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1402	-212	396	-267	-6.8	-1055	-383	-698	-577	-886	-175	785	1323	425
1930 Federal Surplus/Deficit	730	-685	71	-545	-114	-1027	-228	-723	-169	-947	-793	666	140	1271
1931 Federal Surplus/Deficit	781	-478	117	-973	141	-931	-436	-673	-2077	-500	-2128	1555	-659	1033
1932 Federal Surplus/Deficit	-28	-1353	-383	-749	-513	-1141	-1242	-1534	1162	1316	3281	3266	2998	1172
1933 Federal Surplus/Deficit	930	209	603	-339	-567	442	2289	2480	1947	1921	1550	2724	3159	3036
1934 Federal Surplus/Deficit	2105	1937	261	699	2480	3114	3611	3351	3144	3454	3197	2804	2200	1140
1935 Federal Surplus/Deficit	-235	-704	-47	-668	-801	-938	1905	1908	1453	2056	1134	2398	1599	2242
1936 Federal Surplus/Deficit	1671	62	-519	-538	-63	-1101	-1755	-692	-330	298	2921	3144	2697	1419
1937 Federal Surplus/Deficit	948	-317	-360	-585	247	-937	-185	-865	-749	-1647	-1958	1469	591	1219
1938 Federal Surplus/Deficit	583	-851	189	-639	-716	-223	1947	1927	2046	2757	3245	3063	2514	2098
1939 Federal Surplus/Deficit	561	-339	216	-160	-162	-1139	15	-250	185	2442	2215	2883	1109	1127
1940 Federal Surplus/Deficit	396	-931	-131	-237	295	-252	-372	293	1540	2069	2458	2642	1965	626
1941 Federal Surplus/Deficit	-140	-1220	-100	-58	-412	-364	-680	-645	-293	-413	364	1944	842	1149
1942 Federal Surplus/Deficit	536	-239	398	-807	139	511	1994	-16	-188	-252	1855	2289	2518	2526
1943 Federal Surplus/Deficit	1522	682	806	-331	-738	-589	2469	2651	1812	3688	3642	2960	2886	1986
1944 Federal Surplus/Deficit	1023	88	-247	-500	-22	-1096	-254	-355	86	-1071	616	764	-897	316
1945 Federal Surplus/Deficit	131	-787	217	-861	-247	-1548	-847	-1142	-900	-1643	-1916	2696	2209	495
1946 Federal Surplus/Deficit	960	-300	-33	-849	-297	-149	1494	1338	2352	3070	3545	2963	2778	2236
1947 Federal Surplus/Deficit	1492	494	355	-551	71	2484	2997	3207	2725	2249	2004	2986	2942	2408
1948 Federal Surplus/Deficit	1432	388	139	2126	1591	1344	2963	2382	1894	2207	3160	3303	2993	2816
1949 Federal Surplus/Deficit	2054	1890	629	26	-92	-4.9	1390	208	3104	2878	3333	3348	2804	509
1950 Federal Surplus/Deficit	-272	-1410	-371	-515	-187	-805	2734	3008	3297	3395	2835	3023	2626	2445
1951 Federal Surplus/Deficit	1985	1601	294	675	1935	2701	3634	3588	3346	3419	3211	2939	2619	2801
1952 Federal Surplus/Deficit	1925	965	332	1454	830	1380	2750	2450	2249	3447	3544	3247	2959	2330
1953 Federal Surplus/Deficit	1386	188	-427	-568	-115	-1049	792	1506	1565	1457	1697	2944	3218	2843
1954 Federal Surplus/Deficit	1775	1080	268	5.1	140	796	2824	2902	2297	2515	2211	3028	2653	3157
1955 Federal Surplus/Deficit	2244	2453	2258	52	1003	422	372	-612	22	-690	1144	2627	3052	3245
1956 Federal Surplus/Deficit	2111	1349	-16	142	1381	2599	3397	3353	3406	3149	3504	3076	2900	2919
1957 Federal Surplus/Deficit	1646	945	152	241	-103	866	1528	169	2344	3541	2409	3306	3049	1744
1958 Federal Surplus/Deficit	538	-487	92	-368	48	-963	1907	1998	1777	2656	2754	3315	3153	1659
1959 Federal Surplus/Deficit	724	-63	5.8	-580	649	2043	3174	3143	2991	2873	2094	2678	2714	2249
1960 Federal Surplus/Deficit	2037	1328	2437	2870	2529	2149	2425	1779	2357	3710	3007	2743	2787	2190
1961 Federal Surplus/Deficit	1409	16	-244	-177	-8.2	-30	2052	2508	2994	2564	1723	2966	2895	1718
1962 Federal Surplus/Deficit	707	283	-125	-927	-54	-308	1687	1693	150	3493	3374	3005	3001	405
1963 Federal Surplus/Deficit	975	200	-294	288	987	1886	2237	1855	1708	918	1372	2638	2314	2302
1964 Federal Surplus/Deficit	1561	298	324	-500	-303	86	844	786	273	2812	1684	2848	2933	3096
1965 Federal Surplus/Deficit	2064	1159	902	724	634	2646	3726	3409	3302	2193	3478	3024	3068	2285
1966 Federal Surplus/Deficit	1977	1727	-84	187	305	352	1589	1339	-133	3375	2108	2548	2043	2359
1967 Federal Surplus/Deficit	1569	315	-77	-585	-292	377	3031	3160	2499	1389	-248	2766	2600	2588
1968 Federal Surplus/Deficit	1827	697	206	-37	380	402	2638	2584	2098	865	704	1926	2625	2572
1969 Federal Surplus/Deficit	1939	1444	1516	776	1562	1443	3404	3246	2719	3268	3195	3148	2929	2503
1970 Federal Surplus/Deficit	1088	-167	35	-217	173	-815	1772	1242	1181	2040	1219	2703	3107	1633
1971 Federal Surplus/Deficit	1015	-18	-201	-581	-125	-608	3395	3498	3240	3337	3025	3140	2929	3080
1972 Federal Surplus/Deficit	2213	1804	556	204	109	507	3299	3567	3875	3619	2588	3028	2944	3085
1973 Federal Surplus/Deficit	2267	2306	834	27	239	222	1786	219	195	-1626	292	1956	1471	620
1974 Federal Surplus/Deficit	415	-835	125	-819	-530	576	3894	3468	3677	3535	3464	3072	2911	3302
1975 Federal Surplus/Deficit	2108	2007	456	-765	7.7	-233	2117	1959	2050	1146	1384	3012	3062	3268
1976 Federal Surplus/Deficit	1829	1377	844	896	1910	3109	3209	3300	3407	3491	3297	3077	2980	2917
1977 Federal Surplus/Deficit	2326	2472	2619	74	82	-944	-287	-213	14	-1756	158	75	-1076	-160
1978 Federal Surplus/Deficit	104	-1620	-445	-1080	-806	902	1767	1291	1495	3132	1860	2766	1886	2373
1979 Federal Surplus/Deficit	1241	277	1714	345	134	-838	1253	-568	2013	1047	1711	3057	1363	567
1980 Federal Surplus/Deficit	-310	-1097	-326	-712	-86	-1379	23	-529	-666	2339	2705	3193	3001	1084
1981 Federal Surplus/Deficit	404	-858	206	-126	-21	2308	2775	2322	2233	-235	1469	2714	3103	2816
1982 Federal Surplus/Deficit	2140	2028	342	-133	459	912	2228	3542	3657	3038	2554	3138	2740	2803
1983 Federal Surplus/Deficit	2151	2046	1551	895	563	1178	2890	2908	3634	3038	2487	3145	2976	2805
1984 Federal Surplus/Deficit	2072	1510	689	40	2116	1132	2818	2986	3017	3660	3382	3118	3100	2753
1985 Federal Surplus/Deficit	1552	340	413	-133	453	272	2041	872	-132	2675	2769	3052	1870	-409
1986 Federal Surplus/Deficit	-453	-1808	-276	-581	932	-434	1935	2797	3807	3242	3043	2522	2609	1934
1987 Federal Surplus/Deficit	1194	-36	-206	-1013	221	228	109	-1373	1157	427	1292	2987	1928	311
1988 Federal Surplus/Deficit	-452	-1859	-181	-1062	-265	-1445	-809	-913	-446	-1218	674	1768	649	1061
1989 Federal Surplus/Deficit	249	-719	-73	-1008	-634	-758	-152	-229	918	2455	2969	2667	1930	728
1990 Federal Surplus/Deficit	345	-943	-142	-858	133	372	2382	2517	1913	1808	3392	2588	2693	2043
1991 Federal Surplus/Deficit	1766	917	-171	-973	1999	1432	2985	2924	1918	2788	2301	2928	2545	2849
1992 Federal Surplus/Deficit	2154	1859	31	-808	-109	-813	838	-544	1919	-231	527	1901	1415	-101

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-459	-1879	-501	-1002	-177	-805	-363	-2034	-488	148	23	2929	1811	1495
<i>1994 Federal Surplus/Deficit</i>	493	-548	15	-967	258	-758	-515	-2.7	-249	-1062	945	1835	1476	398
<i>1995 Federal Surplus/Deficit</i>	287	-1095	94	-1082	-540	-1402	-251	2204	1987	2655	1388	2675	2900	2334
<i>1996 Federal Surplus/Deficit</i>	826	52	735	100	2661	3143	3714	3565	3630	3269	3668	3199	3112	3141
<i>1997 Federal Surplus/Deficit</i>	2128	1351	-203	-161	203	985	3820	3450	3777	3333	3545	2962	3045	3122
<i>1998 Federal Surplus/Deficit</i>	2095	1767	1510	2378	1590	869	1634	1997	1673	1288	2289	3356	3139	2154

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1218	-403	234	100	424	-623	-22	-296	-239	-555	102	2086	2417	735
1930 Federal Surplus/Deficit	546	-868	-94	-163	318	-593	131	-319	167	-615	-509	1959	1295	1601
1931 Federal Surplus/Deficit	597	-665	-46	-569	565	-504	-75	-271	-375	-178	-1808	2857	537	1360
1932 Federal Surplus/Deficit	-208	-1521	-550	-366	-68	-707	-870	-1123	1491	1632	3663	4441	3972	1501
1933 Federal Surplus/Deficit	745	13	444	30	-116	850	2665	2893	2276	2243	1850	4012	4038	3327
1934 Federal Surplus/Deficit	1924	1744	98	1049	2908	3454	4041	3795	3516	3829	3560	4101	3196	1469
1935 Federal Surplus/Deficit	-413	-887	-213	-291	-338	-506	2273	2311	1782	2380	1423	3720	2594	2573
1936 Federal Surplus/Deficit	1481	-133	-687	-159	367	-669	-1372	-291	6.2	612	3275	4361	3744	1751
1937 Federal Surplus/Deficit	763	-507	-527	-199	669	-509	173	-462	-281	-1286	-1638	2785	1724	1548
1938 Federal Surplus/Deficit	400	-1031	25	-249	-258	194	2314	2331	2376	3092	3619	4309	3478	2411
1939 Federal Surplus/Deficit	378	-529	53	202	274	-702	373	149	518	2771	2534	4132	2250	1455
1940 Federal Surplus/Deficit	214	-1108	-296	123	715	164	-11	689	1869	2394	2809	3901	2998	942
1941 Federal Surplus/Deficit	-319	-1390	-265	296	29	53	-316	-244	43	-93	642	3225	1975	1479
1942 Federal Surplus/Deficit	353	-430	237	-417	564	920	2364	382	147	66	2166	3536	3602	2826
1943 Federal Surplus/Deficit	1339	486	648	37	-280	-165	2848	3065	2140	4040	4033	4240	3863	2280
1944 Federal Surplus/Deficit	838	-106	-413	-117	410	-662	105	44	419	-739	897	2061	287	623
1945 Federal Surplus/Deficit	-50	-969	53	-464	189	-1112	-481	-734	-268	-1282	-1596	3994	3130	807
1946 Federal Surplus/Deficit	775	-490	-198	-440	145	267	1854	1736	2683	3408	3916	4264	3751	2456
1947 Federal Surplus/Deficit	1309	298	193	-165	501	2897	3409	3638	3062	2578	2320	4242	3879	2716
1948 Federal Surplus/Deficit	1249	192	-25	2533	1994	1750	3358	2791	2224	2531	3538	4547	3953	3113
1949 Federal Surplus/Deficit	1872	1710	470	381	343	409	1751	605	3451	3207	3698	4563	3737	822
1950 Federal Surplus/Deficit	-450	-1576	-539	-134	250	-377	3139	3430	3649	3734	3152	4290	3573	2734
1951 Federal Surplus/Deficit	1801	1415	131	1024	2348	3117	4065	4032	3700	3753	3565	4285	3751	3093
1952 Federal Surplus/Deficit	1739	770	169	1843	1242	1785	3139	2859	2580	3798	3917	4491	4002	2631
1953 Federal Surplus/Deficit	1202	-6.6	-595	-183	318	-617	1148	1904	1894	1773	2002	4233	4152	3125
1954 Federal Surplus/Deficit	1594	887	105	361	567	1203	3213	3320	2629	2846	2533	4300	3598	3435
1955 Federal Surplus/Deficit	2049	2266	2073	407	1412	830	728	-211	356	-364	1433	3878	3948	3540
1956 Federal Surplus/Deficit	1930	1159	-181	495	1795	3013	3803	3798	3764	3472	3879	4374	3859	3209
1957 Federal Surplus/Deficit	1464	751	-12	592	332	1273	1890	566	2675	3897	2727	4567	4031	2078
1958 Federal Surplus/Deficit	354	-674	-73	4.0	478	-530	2273	2400	2106	2992	3099	4550	4123	1993
1959 Federal Surplus/Deficit	540	-256	-159	-195	1064	2451	3577	3573	3333	3224	2444	3975	3722	2542
1960 Federal Surplus/Deficit	1855	1138	2256	3266	2957	2560	2807	2180	2688	4086	3362	4057	3817	2496
1961 Federal Surplus/Deficit	1225	-178	-410	185	423	384	2423	2917	3339	2904	2036	4235	3884	2049
1962 Federal Surplus/Deficit	523	87	-291	-513	377	110	2051	2094	483	3828	3728	4273	3952	714
1963 Federal Surplus/Deficit	791	5	-461	638	1396	2293	2614	2256	2037	1231	1666	3927	3223	2607
1964 Federal Surplus/Deficit	1378	103	162	-119	138	498	1200	1181	606	3149	1984	4098	4113	3379
1965 Federal Surplus/Deficit	1882	966	744	1075	1049	3062	4156	3851	3657	2495	3855	4278	4010	2590
1966 Federal Surplus/Deficit	1793	1543	-250	537	726	760	1950	1737	203	3740	2394	3858	2972	2684
1967 Federal Surplus/Deficit	1386	120	-242	-207	147	786	3449	3600	2834	1705	30	4042	3555	2889
1968 Federal Surplus/Deficit	1637	501	44	320	801	811	3024	2996	2428	1178	984	3219	3619	2881
1969 Federal Surplus/Deficit	1753	1256	1342	1128	1966	1849	3817	3690	3056	3613	3566	4427	3863	2810
1970 Federal Surplus/Deficit	903	-360	-129	148	599	-386	2136	1639	1510	2362	1509	3949	4098	1966
1971 Federal Surplus/Deficit	830	-211	-367	-201	311	-183	3801	3939	3585	3679	3385	4401	3824	3357
1972 Federal Surplus/Deficit	2020	1622	396	556	538	915	3720	4012	4232	3987	2883	4389	3925	3374
1973 Federal Surplus/Deficit	2072	2125	675	383	664	634	2150	615	527	-1279	569	3277	2563	936
1974 Federal Surplus/Deficit	232	-1014	-39	-425	-79	985	4323	3909	4050	3879	3830	4357	3883	3571
1975 Federal Surplus/Deficit	1928	1822	296	-361	439	185	2487	2362	2380	1460	1678	4274	4024	3531
1976 Federal Surplus/Deficit	1649	1187	685	1249	2322	3532	3612	3745	3767	3833	3655	4357	3935	3221
1977 Federal Surplus/Deficit	2130	2286	2441	428	509	-515	73	185	347	-1396	434	1892	160	133
1978 Federal Surplus/Deficit	-77	-1778	-613	-662	-343	1308	2132	1689	1823	3513	2176	4046	2917	2678
1979 Federal Surplus/Deficit	1056	81	1543	694	561	-408	1612	-167	2343	1360	2012	4307	2428	881
1980 Federal Surplus/Deficit	-487	-1272	-493	-323	346	-934	382	-129	-327	2664	3066	4433	3956	1411
1981 Federal Surplus/Deficit	221	-1038	43	232	410	2719	3171	2730	2565	83	1766	3960	4043	3128
1982 Federal Surplus/Deficit	1937	1894	180	228	878	1318	2601	3986	4037	3372	2866	4321	3716	3080
1983 Federal Surplus/Deficit	1971	1869	1378	1247	980	1584	3285	3326	4009	3375	2798	4351	3904	3075
1984 Federal Surplus/Deficit	1889	1322	529	395	2529	1538	3210	3407	3362	4021	3749	4338	4089	3031
1985 Federal Surplus/Deficit	1369	144	251	229	872	683	2412	1268	203	3019	3110	4292	2798	-108
1986 Federal Surplus/Deficit	-617	-1959	-444	-195	1342	-14	2302	3217	4158	3580	3377	3813	3765	2259
1987 Federal Surplus/Deficit	1009	-229	-372	-596	647	639	467	-963	1486	740	1583	4244	2982	619
1988 Federal Surplus/Deficit	-617	-2015	-348	-647	170	-1000	-443	-509	-109	-879	955	3101	1770	1388
1989 Federal Surplus/Deficit	67	-902	-238	-586	-180	-332	208	169	1248	2786	3346	3955	2900	1047
1990 Federal Surplus/Deficit	162	-1121	-308	-452	557	781	2760	2930	2243	2130	3774	3884	3644	2355
1991 Federal Surplus/Deficit	1576	722	-337	-552	2412	1838	3402	3347	2248	3128	2660	4232	3674	3169
1992 Federal Surplus/Deficit	1957	1676	-134	-405	324	-385	1194	-143	2249	87	807	3217	2559	192

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
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Continued

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-624	-2036	-669	-593	258	-376	-2.4	-1616	-149	464	299	4176	2864	1825
<i>1994 Federal Surplus/Deficit</i>	310	-734	-149	-546	680	-333	-152	394	87	-728	1230	3157	2586	708
<i>1995 Federal Surplus/Deficit</i>	105	-1269	-71	-661	-92	-956	109	2610	2317	2990	1682	3944	3889	2635
<i>1996 Federal Surplus/Deficit</i>	642	-142	576	453	3092	3482	4143	4006	4016	3596	4041	4433	4098	3439
<i>1997 Federal Surplus/Deficit</i>	1947	1161	-369	202	630	1391	4251	3890	4159	3670	3920	4249	4005	3402
<i>1998 Federal Surplus/Deficit</i>	1913	1585	1336	2788	2001	1275	1996	2401	2002	1603	2611	4506	4120	2484

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1531	-81	529	-31	249	-814	-111	-422	-328	-636	78	1004	1536	631
1930 Federal Surplus/Deficit	859	-554	203	-309	142	-786	45	-447	80	-697	-541	886	353	1477
1931 Federal Surplus/Deficit	910	-347	250	-737	397	-690	-163	-397	-1829	-250	-1876	1775	-447	1239
1932 Federal Surplus/Deficit	100	-1223	-250	-514	-257	-900	-970	-1259	1411	1567	3535	3487	3212	1378
1933 Federal Surplus/Deficit	1058	340	736	-103	-311	683	2563	2757	2197	2172	1803	2945	3373	3243
1934 Federal Surplus/Deficit	2234	2069	394	935	2738	3357	3885	3628	3395	3706	3451	3025	2414	1346
1935 Federal Surplus/Deficit	-107	-573	85	-432	-545	-697	2179	2185	1703	2307	1387	2619	1812	2448
1936 Federal Surplus/Deficit	1800	193	-387	-302	193	-860	-1483	-417	-82	549	3175	3364	2911	1626
1937 Federal Surplus/Deficit	1076	-186	-228	-350	503	-696	87	-590	-500	-1397	-1706	1689	804	1425
1938 Federal Surplus/Deficit	712	-720	321	-403	-460	18	2220	2204	2296	3009	3499	3284	2728	2304
1939 Federal Surplus/Deficit	689	-208	349	76	94	-898	288	26	434	2694	2469	3103	1322	1333
1940 Federal Surplus/Deficit	524	-800	1.8	-0.7	551	-11	-99	569	1790	2321	2712	2862	2179	832
1941 Federal Surplus/Deficit	-12	-1089	33	178	-156	-123	-408	-369	-44	-163	617	2164	1055	1355
1942 Federal Surplus/Deficit	664	-107	531	-572	395	753	2268	260	61	-2.2	2108	2510	2732	2733
1943 Federal Surplus/Deficit	1650	814	939	-95	-483	-348	2743	2928	2061	3940	3896	3181	3100	2192
1944 Federal Surplus/Deficit	1151	219	-114	-264	234	-856	18	-80	334	-821	869	983	-685	522
1945 Federal Surplus/Deficit	259	-656	350	-625	8.4	-1307	-575	-866	-652	-1393	-1664	2917	2423	701
1946 Federal Surplus/Deficit	1088	-168	99	-614	-41	92	1768	1615	2602	3322	3799	3183	2992	2442
1947 Federal Surplus/Deficit	1621	626	488	-315	327	2726	3271	3485	2976	2500	2257	3207	3156	2614
1948 Federal Surplus/Deficit	1561	519	271	2363	1847	1586	3237	2659	2144	2458	3414	3524	3207	3022
1949 Federal Surplus/Deficit	2183	2022	762	262	164	236	1663	484	3354	3130	3587	3569	3018	715
1950 Federal Surplus/Deficit	-145	-1279	-238	-279	69	-564	3008	3285	3548	3647	3089	3244	2840	2652
1951 Federal Surplus/Deficit	2114	1733	427	911	2192	2944	3909	3866	3596	3671	3465	3160	2833	3008
1952 Federal Surplus/Deficit	2054	1097	464	1690	1086	1622	3024	2727	2499	3699	3798	3468	3173	2537
1953 Federal Surplus/Deficit	1515	320	-294	-332	141	-809	1065	1783	1815	1708	1951	3165	3433	3050
1954 Federal Surplus/Deficit	1904	1212	401	241	396	1038	3098	3179	2548	2766	2464	3248	2867	3364
1955 Federal Surplus/Deficit	2373	2586	2392	288	1260	663	644	-336	271	-440	1397	2847	3266	3452
1956 Federal Surplus/Deficit	2240	1481	117	378	1637	2841	3671	3631	3657	3401	3758	3297	3114	3126
1957 Federal Surplus/Deficit	1775	1077	284	477	153	1108	1801	445	2594	3794	2662	3527	3263	1951
1958 Federal Surplus/Deficit	666	-356	224	-132	304	-723	2180	2275	2027	2908	3008	3536	3367	1866
1959 Federal Surplus/Deficit	852	68	138	-344	906	2285	3448	3420	3241	3125	2348	2899	2928	2456
1960 Federal Surplus/Deficit	2166	1460	2571	3107	2786	2391	2699	2056	2607	3962	3261	2964	3001	2397
1961 Federal Surplus/Deficit	1538	147	-111	59	248	211	2325	2785	3244	2815	1976	3186	3109	1925
1962 Federal Surplus/Deficit	835	414	7.6	-692	202	-67	1960	1970	399	3745	3628	3225	3215	611
1963 Federal Surplus/Deficit	1104	332	-162	524	1243	2128	2510	2132	1958	1169	1625	2858	2528	2508
1964 Federal Surplus/Deficit	1690	430	457	-264	-48	327	1117	1062	522	3063	1937	3069	3147	3303
1965 Federal Surplus/Deficit	2193	1291	1035	961	890	2889	4001	3686	3553	2444	3732	3245	3282	2491
1966 Federal Surplus/Deficit	2106	1859	49	423	561	593	1862	1616	116	3628	2361	2768	2257	2566
1967 Federal Surplus/Deficit	1697	447	56	-349	-37	618	3306	3438	2749	1640	4.6	2986	2814	2795
1968 Federal Surplus/Deficit	1956	829	339	199	636	644	2911	2861	2348	1116	957	2146	2839	2779
1969 Federal Surplus/Deficit	2068	1576	1649	1012	1819	1685	3678	3523	2969	3520	3449	3369	3143	2710
1970 Federal Surplus/Deficit	1216	-36	167	19	429	-575	2045	1519	1431	2292	1472	2923	3321	1839
1971 Federal Surplus/Deficit	1143	113	-68	-345	131	-368	3670	3776	3490	3589	3279	3361	3143	3287
1972 Federal Surplus/Deficit	2342	1936	689	440	365	748	3573	3845	4126	3871	2841	3248	3159	3292
1973 Federal Surplus/Deficit	2396	2439	967	263	495	464	2060	495	444	-1376	545	2176	1684	825
1974 Federal Surplus/Deficit	543	-704	258	-583	-274	818	4169	3746	3928	3787	3718	3292	3125	3509
1975 Federal Surplus/Deficit	2237	2139	589	-529	264	7.5	2391	2236	2300	1397	1637	3233	3277	3475
1976 Federal Surplus/Deficit	1958	1509	977	1132	2167	3352	3484	3578	3658	3743	3551	3298	3195	3124
1977 Federal Surplus/Deficit	2455	2604	2753	310	338	-703	-14	63	263	-1507	410	294	-864	46
1978 Federal Surplus/Deficit	232	-1489	-313	-845	-550	1143	2040	1568	1744	3384	2113	2987	2100	2580
1979 Federal Surplus/Deficit	1369	409	1848	581	390	-597	1526	-293	2263	1297	1964	3278	1577	773
1980 Federal Surplus/Deficit	-182	-967	-193	-476	169	-1139	296	-254	-418	2591	2959	3414	3215	1290
1981 Federal Surplus/Deficit	532	-727	339	110	235	2550	3048	2599	2483	15	1722	2934	3318	3023
1982 Federal Surplus/Deficit	2269	2160	475	103	716	1153	2501	3819	3908	3290	2808	3358	2954	3010
1983 Federal Surplus/Deficit	2280	2178	1684	1131	819	1420	3164	3185	3885	3290	2741	3365	3190	3012
1984 Federal Surplus/Deficit	2201	1643	822	276	2373	1374	3092	3263	3268	3912	3636	3339	3314	2960
1985 Federal Surplus/Deficit	1681	471	545	103	709	514	2315	1149	117	2927	3022	3272	2083	-204
1986 Federal Surplus/Deficit	-325	-1678	-144	-346	1189	-194	2209	3075	4058	3494	3297	2742	2823	2140
1987 Federal Surplus/Deficit	1322	96	-73	-778	477	470	382	-1098	1406	677	1545	3207	2141	517
1988 Federal Surplus/Deficit	-324	-1728	-49	-826	-9.5	-1205	-537	-638	-197	-968	926	1988	862	1267
1989 Federal Surplus/Deficit	377	-588	59	-772	-378	-517	121	46	1167	2706	3223	2887	2144	934
1990 Federal Surplus/Deficit	473	-812	-10.0	-622	389	613	2656	2795	2163	2059	3646	2809	2907	2250
1991 Federal Surplus/Deficit	1894	1049	-38	-738	2256	1674	3259	3201	2168	3039	2554	3149	2759	3056
1992 Federal Surplus/Deficit	2283	1991	163	-573	147	-572	1111	-268	2169	19	780	2121	1628	104

**Table A-30: Federal Surplus/Deficit - By Water Year
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-331	-1749	-369	-767	79	-564	-91	-1759	-239	398	275	3150	2025	1701
<i>1994 Federal Surplus/Deficit</i>	621	-416	148	-732	514	-518	-243	273	-0.3	-812	1198	2055	1690	603
<i>1995 Federal Surplus/Deficit</i>	415	-964	226	-846	-284	-1161	21	2481	2237	2907	1641	2896	3114	2540
<i>1996 Federal Surplus/Deficit</i>	954	184	868	336	2918	3385	3988	3843	3881	3521	3923	3419	3327	3348
<i>1997 Federal Surplus/Deficit</i>	2257	1483	-70	74	459	1226	4095	3728	4028	3585	3800	3183	3260	3329
<i>1998 Federal Surplus/Deficit</i>	2224	1900	1644	2616	1847	1111	1908	2274	1923	1539	2542	3577	3354	2361

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2019 - 2020 Operating Year
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1423	-198	447	-23	354	-706	-65	-231	-299	-611	48	2002	2331	643
1930 Federal Surplus/Deficit	750	-663	119	-286	247	-677	89	-254	106	-671	-564	1875	1208	1509
1931 Federal Surplus/Deficit	801	-460	166	-692	494	-587	-118	-206	-435	-234	-1862	2773	451	1268
1932 Federal Surplus/Deficit	-3.7	-1316	-337	-489	-138	-790	-913	-1058	1431	1577	3609	4357	3885	1409
1933 Federal Surplus/Deficit	949	219	657	-92	-186	767	2623	2958	2216	2187	1795	3928	3952	3235
1934 Federal Surplus/Deficit	2129	1951	311	927	2838	3370	3999	3860	3455	3773	3506	4017	3109	1378
1935 Federal Surplus/Deficit	-209	-682	-0.2	-413	-409	-589	2231	2376	1721	2325	1369	3635	2507	2481
1936 Federal Surplus/Deficit	1685	72	-475	-281	296	-752	-1414	-226	-54	556	3220	4277	3658	1659
1937 Federal Surplus/Deficit	967	-302	-315	-322	599	-592	130	-397	-341	-1342	-1692	2701	1638	1456
1938 Federal Surplus/Deficit	604	-826	238	-372	-329	111	2272	2396	2315	3036	3565	4225	3391	2319
1939 Federal Surplus/Deficit	582	-324	266	80	204	-785	331	214	458	2715	2480	4047	2163	1363
1940 Federal Surplus/Deficit	418	-903	-84	0.9	644	81	-54	755	1809	2338	2755	3817	2912	850
1941 Federal Surplus/Deficit	-115	-1185	-52	173	-42	-30	-358	-178	-18	-149	588	3141	1888	1387
1942 Federal Surplus/Deficit	557	-224	449	-539	494	837	2322	447	86	11	2112	3452	3516	2734
1943 Federal Surplus/Deficit	1544	692	861	-86	-350	-248	2806	3130	2080	3984	3978	4156	3777	2188
1944 Federal Surplus/Deficit	1043	99	-201	-239	340	-745	63	109	359	-795	842	1977	201	531
1945 Federal Surplus/Deficit	154	-763	266	-586	118	-1195	-523	-669	-328	-1338	-1650	3910	3044	715
1946 Federal Surplus/Deficit	979	-284	15	-562	75	184	1812	1801	2623	3352	3862	4180	3665	2364
1947 Federal Surplus/Deficit	1513	504	405	-287	431	2814	3367	3703	3001	2522	2265	4158	3792	2624
1948 Federal Surplus/Deficit	1453	398	187	2411	1924	1667	3316	2856	2163	2475	3484	4463	3866	3021
1949 Federal Surplus/Deficit	2077	1916	682	259	272	326	1709	670	3391	3151	3644	4479	3650	730
1950 Federal Surplus/Deficit	-246	-1371	-326	-257	180	-461	3097	3496	3589	3678	3097	4206	3487	2642
1951 Federal Surplus/Deficit	2006	1622	344	902	2278	3034	4023	4098	3639	3698	3511	4201	3665	3001
1952 Federal Surplus/Deficit	1944	977	382	1720	1171	1702	3097	2924	2519	3742	3863	4407	3915	2539
1953 Federal Surplus/Deficit	1407	199	-383	-305	248	-700	1106	1969	1833	1718	1947	4149	4066	3033
1954 Federal Surplus/Deficit	1799	1093	318	238	497	1120	3171	3386	2569	2791	2478	4215	3512	3343
1955 Federal Surplus/Deficit	2254	2473	2287	285	1342	747	686	-145	296	-420	1379	3794	3862	3448
1956 Federal Surplus/Deficit	2135	1365	31	373	1724	2930	3761	3863	3704	3416	3824	4290	3773	3117
1957 Federal Surplus/Deficit	1668	957	201	469	262	1190	1848	631	2614	3841	2673	4483	3944	1986
1958 Federal Surplus/Deficit	558	-468	140	-118	407	-613	2231	2465	2046	2937	3045	4466	4037	1901
1959 Federal Surplus/Deficit	744	-50	53	-317	994	2368	3535	3639	3273	3169	2390	3891	3635	2451
1960 Federal Surplus/Deficit	2059	1344	2470	3144	2887	2477	2765	2245	2627	4031	3308	3973	3731	2404
1961 Federal Surplus/Deficit	1430	28	-198	62	353	300	2380	2982	3278	2848	1981	4151	3798	1957
1962 Federal Surplus/Deficit	727	293	-78	-636	307	27	2008	2160	423	3773	3673	4189	3866	622
1963 Federal Surplus/Deficit	995	211	-248	516	1326	2210	2572	2321	1977	1175	1611	3843	3137	2515
1964 Federal Surplus/Deficit	1583	308	375	-241	68	415	1158	1247	545	3093	1930	4014	4027	3287
1965 Federal Surplus/Deficit	2087	1172	957	953	979	2979	4113	3916	3597	2440	3801	4193	3923	2498
1966 Federal Surplus/Deficit	1998	1750	-37	415	656	677	1908	1802	142	3685	2340	3774	2886	2593
1967 Federal Surplus/Deficit	1590	326	-30	-329	77	703	3407	3666	2773	1649	-25	3958	3469	2797
1968 Federal Surplus/Deficit	1842	707	256	198	731	728	2982	3061	2368	1122	930	3135	3532	2789
1969 Federal Surplus/Deficit	1958	1462	1556	1006	1896	1766	3775	3755	2995	3557	3512	4343	3777	2718
1970 Federal Surplus/Deficit	1107	-155	83	26	528	-469	2093	1705	1450	2306	1454	3865	4012	1874
1971 Federal Surplus/Deficit	1034	-5.7	-155	-323	241	-266	3759	4004	3525	3623	3330	4317	3737	3265
1972 Federal Surplus/Deficit	2225	1828	609	434	468	832	3677	4077	4172	3932	2829	4305	3839	3282
1973 Federal Surplus/Deficit	2277	2332	888	260	593	551	2108	681	467	-1334	515	3193	2476	844
1974 Federal Surplus/Deficit	436	-809	173	-547	-149	901	4280	3974	3990	3824	3776	4273	3796	3479
1975 Federal Surplus/Deficit	2133	2029	508	-484	369	101	2444	2427	2319	1404	1624	4190	3938	3439
1976 Federal Surplus/Deficit	1853	1394	898	1126	2252	3449	3569	3810	3706	3777	3600	4272	3848	3129
1977 Federal Surplus/Deficit	2335	2493	2655	306	439	-598	30	251	287	-1451	380	1808	74	41
1978 Federal Surplus/Deficit	127	-1573	-400	-785	-414	1225	2090	1755	1763	3458	2122	3962	2831	2587
1979 Federal Surplus/Deficit	1261	287	1756	572	490	-491	1569	-102	2282	1304	1957	4222	2341	789
1980 Federal Surplus/Deficit	-283	-1066	-281	-445	276	-1017	339	-64	-387	2609	3012	4349	3869	1319
1981 Federal Surplus/Deficit	426	-833	256	110	340	2636	3129	2795	2504	28	1712	3875	3957	3037
1982 Federal Surplus/Deficit	2142	2101	393	105	807	1235	2559	4052	3976	3316	2811	4237	3630	2988
1983 Federal Surplus/Deficit	2176	2076	1591	1125	909	1500	3242	3391	3949	3319	2744	4266	3818	2983
1984 Federal Surplus/Deficit	2094	1529	742	273	2459	1455	3168	3473	3302	3966	3694	4254	4003	2939
1985 Federal Surplus/Deficit	1574	350	463	107	802	600	2369	1334	143	2963	3056	4207	2712	-200
1986 Federal Surplus/Deficit	-414	-1754	-231	-318	1272	-98	2260	3282	4098	3524	3322	3729	3679	2167
1987 Federal Surplus/Deficit	1213	-23	-159	-718	577	555	425	-898	1425	684	1528	4159	2896	527
1988 Federal Surplus/Deficit	-413	-1811	-135	-770	99	-1083	-485	-444	-169	-935	900	3017	1684	1296
1989 Federal Surplus/Deficit	271	-697	-26	-709	-250	-415	165	234	1188	2730	3292	3870	2814	955
1990 Federal Surplus/Deficit	367	-916	-96	-574	487	697	2718	2996	2182	2074	3720	3800	3558	2263
1991 Federal Surplus/Deficit	1781	928	-124	-674	2342	1755	3360	3412	2187	3073	2606	4147	3588	3077
1992 Federal Surplus/Deficit	2162	1883	79	-527	253	-468	1152	-78	2189	31	752	3133	2473	100

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-420	-1831	-457	-716	188	-460	-45	-1550	-209	408	245	4092	2778	1733
<i>1994 Federal Surplus/Deficit</i>	514	-529	64	-668	610	-416	-195	460	26	-784	1175	3073	2499	616
<i>1995 Federal Surplus/Deficit</i>	309	-1064	142	-783	-162	-1039	67	2675	2257	2935	1628	3860	3803	2544
<i>1996 Federal Surplus/Deficit</i>	846	64	789	331	3022	3399	4101	4071	3956	3540	3987	4348	4012	3347
<i>1997 Federal Surplus/Deficit</i>	2152	1367	-157	79	559	1308	4209	3956	4099	3614	3866	4164	3918	3310
<i>1998 Federal Surplus/Deficit</i>	2118	1791	1550	2665	1930	1192	1954	2467	1941	1547	2556	4422	4034	2393

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
1929 Federal Surplus/Deficit	1443	-168	449	-98	239	-833	-129	-435	-366	-671	43	939	1469	559
1930 Federal Surplus/Deficit	771	-641	123	-376	131	-805	27	-460	42	-732	-575	821	286	1405
1931 Federal Surplus/Deficit	822	-434	170	-804	387	-709	-182	-410	-1867	-285	-1911	1710	-514	1167
1932 Federal Surplus/Deficit	12	-1309	-330	-581	-267	-919	-988	-1271	1373	1532	3501	3422	3145	1306
1933 Federal Surplus/Deficit	970	253	657	-170	-321	664	2545	2744	2159	2137	1769	2880	3306	3171
1934 Federal Surplus/Deficit	2146	1982	314	868	2727	3338	3867	3616	3357	3671	3417	2960	2347	1274
1935 Federal Surplus/Deficit	-195	-660	5.6	-499	-555	-716	2161	2172	1665	2272	1353	2554	1745	2376
1936 Federal Surplus/Deficit	1712	106	-467	-369	182	-879	-1501	-429	-120	514	3141	3299	2843	1554
1937 Federal Surplus/Deficit	988	-272	-307	-417	493	-715	69	-602	-538	-1432	-1741	1624	737	1353
1938 Federal Surplus/Deficit	624	-807	242	-470	-470	-1	2202	2191	2258	2974	3465	3219	2660	2232
1939 Federal Surplus/Deficit	602	-295	269	9.4	84	-917	270	13	396	2659	2435	3038	1255	1261
1940 Federal Surplus/Deficit	437	-887	-78	-68	541	-30	-118	556	1752	2286	2678	2797	2111	760
1941 Federal Surplus/Deficit	-100	-1176	-47	111	-167	-142	-426	-382	-82	-198	583	2099	988	1283
1942 Federal Surplus/Deficit	576	-194	451	-639	384	734	2250	248	23	-37	2074	2445	2665	2661
1943 Federal Surplus/Deficit	1562	727	859	-162	-493	-367	2725	2915	2023	3905	3862	3116	3033	2120
1944 Federal Surplus/Deficit	1064	133	-194	-331	224	-875	0.1	-92	296	-857	835	918	-752	450
1945 Federal Surplus/Deficit	171	-743	270	-692	-1.8	-1326	-594	-879	-690	-1428	-1698	2852	2355	629
1946 Federal Surplus/Deficit	1000	-255	20	-681	-51	73	1750	1602	2564	3286	3765	3118	2925	2371
1947 Federal Surplus/Deficit	1533	539	408	-382	317	2708	3253	3472	2938	2465	2223	3142	3088	2542
1948 Federal Surplus/Deficit	1473	432	191	2296	1837	1567	3219	2646	2106	2423	3380	3459	3139	2951
1949 Federal Surplus/Deficit	2096	1935	683	195	154	217	1645	471	3316	3095	3553	3504	2951	643
1950 Federal Surplus/Deficit	-233	-1366	-318	-346	59	-583	2990	3273	3510	3612	3055	3179	2773	2580
1951 Federal Surplus/Deficit	2026	1646	347	844	2182	2925	3891	3853	3558	3636	3431	3095	2765	2936
1952 Federal Surplus/Deficit	1966	1010	385	1624	1076	1603	3006	2714	2461	3664	3764	3403	3106	2465
1953 Federal Surplus/Deficit	1427	233	-374	-399	130	-828	1047	1770	1777	1673	1916	3100	3365	2978
1954 Federal Surplus/Deficit	1816	1125	321	174	385	1019	3080	3166	2510	2731	2430	3183	2799	3292
1955 Federal Surplus/Deficit	2285	2499	2312	221	1250	644	626	-349	233	-475	1363	2782	3198	3380
1956 Federal Surplus/Deficit	2152	1394	37	311	1627	2822	3653	3618	3619	3366	3724	3232	3046	3054
1957 Federal Surplus/Deficit	1687	990	205	410	143	1089	1783	432	2556	3758	2628	3462	3195	1879
1958 Federal Surplus/Deficit	578	-443	145	-199	294	-742	2162	2262	1989	2873	2974	3471	3300	1794
1959 Federal Surplus/Deficit	764	-19	59	-411	895	2266	3430	3408	3203	3090	2314	2834	2860	2384
1960 Federal Surplus/Deficit	2078	1373	2491	3040	2776	2372	2681	2043	2569	3927	3227	2899	2934	2325
1961 Federal Surplus/Deficit	1450	60	-191	-8.1	238	192	2307	2772	3206	2780	1942	3122	3041	1853
1962 Federal Surplus/Deficit	747	328	-72	-759	192	-86	1942	1957	361	3710	3594	3160	3147	539
1963 Federal Surplus/Deficit	1016	245	-241	457	1233	2109	2492	2119	1920	1133	1591	2793	2460	2436
1964 Federal Surplus/Deficit	1602	343	377	-331	-58	309	1099	1049	484	3028	1903	3004	3080	3231
1965 Federal Surplus/Deficit	2105	1204	956	894	880	2870	3983	3674	3515	2409	3698	3180	3214	2420
1966 Federal Surplus/Deficit	2018	1773	-31	356	551	574	1844	1603	78	3592	2327	2703	2190	2494
1967 Federal Surplus/Deficit	1610	360	-24	-416	-47	599	3288	3425	2711	1605	-30	2921	2746	2723
1968 Federal Surplus/Deficit	1868	742	259	132	626	625	2893	2849	2310	1081	923	2081	2771	2707
1969 Federal Surplus/Deficit	1980	1490	1569	945	1809	1666	3660	3511	2931	3485	3414	3304	3076	2638
1970 Federal Surplus/Deficit	1128	-123	87	-48	419	-593	2027	1506	1393	2257	1438	2858	3254	1767
1971 Federal Surplus/Deficit	1055	27	-148	-412	121	-386	3652	3763	3452	3554	3245	3296	3075	3215
1972 Federal Surplus/Deficit	2255	1849	609	373	355	729	3555	3833	4088	3836	2807	3183	3091	3220
1973 Federal Surplus/Deficit	2308	2352	887	196	485	445	2042	482	406	-1411	510	2112	1617	753
1974 Federal Surplus/Deficit	455	-790	178	-650	-285	799	4151	3733	3890	3752	3684	3227	3058	3437
1975 Federal Surplus/Deficit	2149	2052	509	-596	253	-11	2373	2224	2262	1362	1603	3168	3209	3403
1976 Federal Surplus/Deficit	1870	1422	897	1065	2157	3333	3466	3565	3620	3708	3517	3233	3127	3052
1977 Federal Surplus/Deficit	2368	2518	2673	243	327	-722	-32	50	225	-1542	376	229	-932	-26
1978 Federal Surplus/Deficit	144	-1576	-392	-912	-560	1125	2022	1555	1706	3349	2079	2922	2032	2508
1979 Federal Surplus/Deficit	1281	322	1768	514	380	-616	1508	-305	2225	1262	1930	3213	1509	701
1980 Federal Surplus/Deficit	-270	-1053	-273	-543	159	-1158	278	-266	-456	2556	2925	3349	3147	1218
1981 Federal Surplus/Deficit	444	-814	259	43	225	2532	3030	2586	2445	-20	1688	2869	3250	2951
1982 Federal Surplus/Deficit	2181	2073	395	36	705	1135	2483	3807	3870	3255	2774	3293	2886	2938
1983 Federal Surplus/Deficit	2193	2091	1605	1064	809	1401	3146	3173	3847	3255	2707	3300	3123	2940
1984 Federal Surplus/Deficit	2113	1556	742	209	2362	1355	3074	3251	3230	3877	3602	3274	3247	2888
1985 Federal Surplus/Deficit	1593	384	466	36	699	495	2297	1136	79	2892	2988	3208	2016	-276
1986 Federal Surplus/Deficit	-413	-1764	-224	-413	1178	-212	2191	3062	4020	3459	3263	2677	2755	2068
1987 Federal Surplus/Deficit	1234	9	-153	-845	467	451	364	-1111	1368	642	1511	3143	2074	445
1988 Federal Surplus/Deficit	-412	-1815	-129	-893	-20	-1224	-555	-650	-235	-1003	892	1923	794	1195
1989 Federal Surplus/Deficit	289	-675	-21	-839	-388	-536	103	34	1129	2671	3188	2822	2076	862
1990 Federal Surplus/Deficit	385	-899	-90	-689	378	595	2638	2782	2125	2024	3612	2744	2839	2178
1991 Federal Surplus/Deficit	1807	962	-118	-805	2246	1655	3241	3189	2130	3004	2520	3084	2692	2984
1992 Federal Surplus/Deficit	2195	1904	83	-640	137	-591	1093	-281	2131	-16	746	2056	1561	32

**Table A-30: Federal Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Federal Surplus/Deficit</i>	-419	-1836	-448	-834	68	-583	-109	-1772	-277	363	241	3085	1957	1630
<i>1994 Federal Surplus/Deficit</i>	534	-503	68	-799	504	-537	-261	261	-38	-848	1164	1990	1622	531
<i>1995 Federal Surplus/Deficit</i>	328	-1051	146	-913	-294	-1180	2.8	2469	2199	2872	1607	2831	3047	2468
<i>1996 Federal Surplus/Deficit</i>	867	97	788	269	2908	3367	3970	3830	3843	3486	3889	3354	3259	3276
<i>1997 Federal Surplus/Deficit</i>	2169	1397	-150	7.5	449	1208	4077	3715	3990	3550	3766	3118	3192	3257
<i>1998 Federal Surplus/Deficit</i>	2136	1813	1564	2549	1836	1092	1890	2261	1885	1504	2508	3512	3286	2289

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Section 11
Monthly Regional
Loads & Resources

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Monthly Regional
Loads & Resources
1-Hour Capacity in Megawatts

For OY 2012 – 2021

Power Services

Reports Powered by:



Loads and Resources Information System

Loads and Resources - Pacific Northwest Region
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	28330	28330	25558	26294	29107	32268	31978	30410	27877	26374	26374	25039	27377	29372
2 Exports	2653	2653	2646	2140	2007	2005	2003	2004	2006	2035	2043	2012	2516	2518
3 Federal Diversity	-508	-546	-567	-332	-283	-520	-287	-305	-358	-459	-474	-478	-480	-392
4 Total Firm Regional Loads	30475	30437	27638	28102	30831	33752	33694	32109	29525	27950	27943	26573	29413	31499
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	30475	30437	27652	28102	30831	33752	33698	32132	29579	27984	27977	26573	29413	31499
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	27087	24437	23414	22049	25013	25255	25416	24337	23211	22157	23509	25663	24743	26847
9 Independent Hydro	1581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2040	2100	1754
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	24074	21994	21260	20511	23697	24682	25232	23498	22220	21144	22888	25343	24641	24881
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5360	5360	5423	5517	5631	5685	5697	5662	5614	5457	5457	4190	4797	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	78	31	78
15 Cogeneration	2882	2882	2899	2932	2948	2959	2962	2955	2291	2938	2938	2389	2898	2890
16 Imports	1253	1253	1111	1216	1646	1969	1982	1950	1381	1227	1227	1111	1173	1379
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	5746	6842	6996
18 Non-Utility Generation	824	823	757	676	620	609	600	612	591	753	754	896	911	903
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17425	17423	17296	17447	17950	18327	18347	18285	16983	17480	17482	14441	16684	17932
21 Total Resources	41499	39418	38556	37958	41647	43008	43579	41782	39203	38624	40370	39784	41325	42813
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	996	-965	-913	-908	-994	-1054	-1056	-1013	-954	-923	-948	-922	-972	-1020
23 Contingency Reserves (Spinning)	996	-965	-913	-908	-994	-1054	-1056	-1013	-954	-923	-948	-922	-972	-1020
24 Generation Imbalance Reserves	311	-311	-338	-290	-290	-290	-290	-290	-294	-320	-320	-320	-320	-320
25 Load Following Reserves	-415	-415	-432	-403	-403	-403	-403	-403	-408	-419	-419	-419	-419	-419
26 Regional Transmission Losses	1299	-1231	-1205	-1188	-1305	-1347	-1366	-1309	-1226	-1207	-1264	-1246	-1295	-1341
27 Total Reserves & Losses	-4018	-3888	-3801	-3696	-3986	-4148	-4173	-4028	-3835	-3793	-3899	-3828	-3977	-4120
28 Total Net Resources	37481	35530	34755	34262	37661	38860	39406	37754	35368	34831	36471	35955	37348	38693
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	7006	5093	7118	6160	6830	5108	5712	5645	5843	6881	8528	9382	7936	7195
30 Total Surplus/Deficit	7006	5093	7103	6160	6830	5108	5708	5622	5788	6847	8494	9382	7936	7195

Loads and Resources - Pacific Northwest Region
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	28895	28895	26038	26784	29682	32905	32654	31106	28489	26980	26980	25639	28077	30141
2 Exports	2525	2525	2523	2127	1994	1992	1788	1788	1791	1820	1827	1797	2301	2303
3 Federal Diversity	-459	-494	-521	-336	-286	-526	-290	-311	-362	-465	-479	-484	-486	-400
4 Total Firm Regional Loads	30961	30927	28040	28575	31389	34371	34151	32584	29919	28336	28329	26951	29892	32044
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	30961	30927	28055	28575	31389	34371	34155	32607	29973	28369	28363	26951	29892	32044
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	26360	24101	23152	22162	25766	25512	25671	24270	23142	22089	23563	25880	24865	27124
9 Independent Hydro	1581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2040	2100	1754
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	23347	21658	20998	20624	24451	24939	25487	23431	22151	21076	22942	25560	24763	25158
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5985	5997	5962	5914	5757	5757	4515	5097	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2466	2466	2389	2898	2890
16 Imports	1260	1260	1117	1222	1621	1795	1807	1775	1387	1157	1157	1042	1106	1180
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6256	6256	4616	5866	6996
18 Non-Utility Generation	825	823	758	676	620	609	605	617	596	758	759	901	925	902
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17735	17734	17606	17753	18226	18453	18478	18415	17294	16503	16505	13525	15955	17731
21 Total Resources	41082	39392	38604	38377	42677	43392	43964	41846	39445	37579	39447	39085	40718	42890
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	993	-968	-914	-915	-1012	-1065	-1068	-1020	-960	-912	-938	-915	-968	-1033
23 Contingency Reserves (Spinning)	993	-968	-914	-915	-1012	-1065	-1068	-1020	-960	-912	-938	-915	-968	-1033
24 Generation Imbalance Reserves	350	-350	-353	-353	-353	-387	-387	-396	-396	-396	-396	-396	-396	-399
25 Load Following Reserves	-433	-433	-436	-438	-438	-466	-466	-470	-470	-470	-470	-470	-470	-474
26 Regional Transmission Losses	1283	-1229	-1206	-1198	-1335	-1354	-1373	-1305	-1228	-1169	-1230	-1219	-1270	-1338
27 Total Reserves & Losses	-4053	-3947	-3823	-3819	-4150	-4336	-4362	-4210	-4013	-3858	-3972	-3916	-4073	-4278
28 Total Net Resources	37029	35445	34781	34558	38527	39056	39603	37636	35431	33721	35475	35169	36646	38611
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	6068	4519	6741	5983	7138	4685	5451	5052	5513	5385	7146	8217	6754	6567
30 Total Surplus/Deficit	6068	4519	6726	5983	7138	4685	5448	5029	5458	5351	7113	8217	6754	6567

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	29636	29636	26665	27414	30366	33712	33470	31804	29182	27565	27565	26221	28803	30854
2 Exports	2318	2318	2316	1940	1806	1805	1803	1804	1806	1835	1842	1812	2316	2318
3 Federal Diversity	-469	-504	-533	-343	-292	-538	-297	-316	-370	-474	-488	-493	-495	-403
4 Total Firm Regional Loads	31485	31450	28448	29012	31881	34979	34976	33292	30618	28925	28918	27539	30625	32769
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	31485	31450	28462	29012	31881	34979	34979	33315	30672	28959	28952	27539	30625	32769
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	26532	24164	23224	22803	25162	25582	25563	24267	23167	22476	23503	25831	25076	26845
9 Independent Hydro	1581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	23519	21721	21070	21264	23846	25009	25379	23428	22176	21463	22883	25565	25028	24933
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5985	5997	5962	5914	5757	5757	4490	4825	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2938	2466	2652	2898	2890
16 Imports	1059	1059	998	1102	1502	1676	1688	1656	1267	1162	1162	1047	1114	1188
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6478	5948	5062	6842	6996
18 Non-Utility Generation	830	828	763	681	625	614	606	618	597	759	760	902	917	909
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17539	17538	17492	17639	18112	18339	18359	18297	17175	17203	16202	14216	16659	17746
21 Total Resources	41058	39259	38562	38903	41958	43348	43738	41725	39350	38666	39085	39781	41688	42680
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	1005	-978	-923	-932	-1011	-1077	-1077	-1029	-969	-935	-940	-933	-991	-1039
23 Contingency Reserves (Spinning)	1005	-978	-923	-932	-1011	-1077	-1077	-1029	-969	-935	-940	-933	-991	-1039
24 Generation Imbalance Reserves	411	-411	-411	-424	-424	-424	-424	-424	-424	-427	-427	-427	-470	-470
25 Load Following Reserves	-486	-486	-486	-502	-502	-502	-502	-503	-503	-504	-504	-504	-532	-532
26 Regional Transmission Losses	1278	-1220	-1200	-1210	-1307	-1349	-1362	-1298	-1222	-1201	-1215	-1239	-1297	-1327
27 Total Reserves & Losses	-4186	-4074	-3945	-3999	-4255	-4428	-4442	-4283	-4088	-4004	-4027	-4036	-4279	-4406
28 Total Net Resources	36872	35185	34617	34904	37704	38921	39296	37441	35262	34662	35058	35745	37408	38274
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	5387	3735	6169	5892	5823	3942	4320	4150	4644	5737	6139	8206	6783	5505
30 Total Surplus/Deficit	5387	3735	6155	5892	5823	3942	4317	4127	4590	5703	6106	8206	6783	5505

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	30350	30350	27264	28034	30985	34384	34156	32477	29724	28068	28068	26735	29404	31496
2 Exports	2332	2332	2330	1954	1820	1819	1642	1643	1645	1674	1681	1635	2140	2141
3 Federal Diversity	-472	-508	-536	-346	-295	-543	-300	-321	-373	-478	-493	-499	-500	-407
4 Total Firm Regional Loads	32210	32175	29058	29642	32511	35660	35498	33799	30995	29263	29256	27872	31043	33230
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	32210	32175	29072	29642	32511	35660	35501	33822	31050	29297	29290	27872	31043	33230
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	26666	24250	23360	22425	25281	25903	25615	24257	23300	22409	19550	26192	24676	27340
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	23706	21861	21261	20941	24019	25384	25485	23472	22363	21450	18983	25926	24628	25428
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5985	5997	5962	5914	5757	5757	4515	5097	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2938	2466	2652	2898	2890
16 Imports	1066	1066	1004	1108	1508	1682	1694	1662	1272	1166	1166	1053	1122	1197
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	4616	5712	6996
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17547	17546	17499	17645	18119	18346	18366	18304	17181	17727	17256	13801	15810	17756
21 Total Resources	41254	39407	38760	38586	42138	43730	43851	41776	39544	39176	36239	39727	40438	43184
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-989	-934	-934	-935	-1022	-1091	-1088	-1038	-978	-949	-905	-938	-980	-1054
23 Contingency Reserves (Spinning)	-989	-989	-934	-935	-1022	-1091	-1088	-1038	-978	-949	-905	-938	-980	-1054
24 Generation Imbalance Reserves	-470	-470	-470	-481	-481	-481	-482	-486	-486	-486	-486	-486	-539	-539
25 Load Following Reserves	-532	-532	-532	-535	-535	-535	-537	-555	-555	-555	-555	-555	-582	-582
26 Regional Transmission Losses	-1280	-1220	-1202	-1196	-1309	-1358	-1362	-1295	-1224	-1214	-1119	-1233	-1251	-1338
27 Total Reserves & Losses	-4315	-4200	-4071	-4081	-4368	-4555	-4557	-4412	-4222	-4152	-3969	-4150	-4332	-4568
28 Total Net Resources	36938	35207	34689	34504	37770	39176	39294	37364	35323	35024	32270	35577	36106	38616
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	4728	3032	5631	4862	5260	3516	3797	3565	4327	5761	3014	7705	5063	5386
30 Total Surplus/Deficit	4728	3032	5617	4862	5260	3516	3793	3542	4273	5727	2980	7705	5063	5386

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	30948	30948	27778	28510	31482	34915	34691	32885	30196	28500	28500	27164	29899	32017
2 Exports	2142	2142	2140	1779	1645	1644	1642	1643	1645	1674	1681	1523	2028	2018
3 Federal Diversity	-478	-513	-542	-350	-299	-549	-303	-320	-377	-483	-498	-504	-505	-411
4 Total Firm Regional Loads	32612	32577	29376	29939	32828	36009	36029	34207	31464	29691	29684	28184	31421	33624
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	32612	32577	29390	29939	32828	36009	36033	34230	31519	29725	29718	28184	31421	33624
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	26764	24289	23420	22388	25283	25969	25792	24345	23218	22531	23409	26038	25069	27015
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	23805	21900	21321	20903	24021	25450	25662	23560	22281	21572	22843	25772	25021	25103
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5984	5998	5962	5914	5757	5757	4515	5097	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2466	2466	2652	2898	2890
16 Imports	1073	1073	1010	1113	1438	1613	1625	1593	1278	1171	1171	1059	1130	1206
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	5586	5056	6416	6996	6996
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17555	17554	17506	17651	18050	18277	18297	18235	17186	15850	15321	15608	17102	17764
21 Total Resources	41359	39453	38827	38554	42071	43727	43959	41795	39468	37422	38164	41379	42123	42868
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-1025	-997	-940	-940	-1027	-1098	-1096	-1044	-983	-928	-937	-967	-1010	-1055
23 Contingency Reserves (Spinning)	0	-997	-940	-940	-1027	-1098	-1096	-1044	-983	-928	-937	-967	-1010	-1055
24 Generation Imbalance Reserves	543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-585	-585
25 Load Following Reserves	-592	-592	-592	-593	-593	-593	-593	-593	-593	-593	-593	-593	-624	-624
26 Regional Transmission Losses	-1279	-1217	-1200	-1191	-1303	-1353	-1361	-1292	-1218	-1153	-1178	-1283	-1303	-1325
27 Total Reserves & Losses	-4464	-4345	-4215	-4206	-4493	-4685	-4690	-4517	-4320	-4145	-4188	-4354	-4532	-4645
28 Total Net Resources	36895	35108	34612	34348	37578	39042	39269	37278	35148	33277	33976	37026	37591	38223
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	4283	2531	5236	4409	4750	3033	3239	3071	3684	3586	4292	8842	6169	4599
30 Total Surplus/Deficit	4283	2531	5222	4409	4750	3033	3236	3048	3630	3552	4258	8842	6169	4599

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	31464	31464	28201	28881	31869	35350	35158	33369	30596	28870	28870	27540	30348	32501
2 Exports	2018	2018	2018	1657	1620	1618	1618	1618	1620	1650	1658	1514	2018	2018
3 Federal Diversity	-482	-518	-547	-353	-301	-553	-307	-327	-382	-488	-503	-509	-511	-416
4 Total Firm Regional Loads	33000	32964	29672	30186	33189	36415	36469	34659	31835	30033	30026	28545	31856	34103
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	33000	32964	29686	30186	33189	36415	36472	34682	31889	30067	30059	28545	31856	34103
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	26551	24310	23646	22323	25286	25728	25868	24558	23861	22734	23539	26128	24898	27343
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	23591	21921	21547	20839	24024	25208	25738	23773	22924	21775	22973	25862	24850	25431
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5984	5681	5650	5604	5451	5451	4215	4828	5338
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	78	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2958	2952	2287	2934	2462	2648	2894	2886
16 Imports	1080	1080	1017	1119	1444	1619	1631	1599	1283	1177	1177	1065	1138	1215
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	5808	5808	5132	5712	6996
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17562	17561	17512	17657	18056	18284	17983	17925	16879	16240	15769	14027	15601	17455
21 Total Resources	41153	39481	39059	38496	42080	43492	43721	41698	39803	38015	38742	39889	40450	42886
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-1028	-1003	-949	-943	-1032	-1099	-1098	-1049	-992	-941	-950	-949	-992	-1062
23 Contingency Reserves (Spinning)	1028	-1003	-949	-943	-1032	-1099	-1098	-1049	-992	-941	-950	-949	-992	-1062
24 Generation Imbalance Reserves	585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-610	-610
25 Load Following Reserves	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-637	-637
26 Regional Transmission Losses	1269	-1215	-1204	-1186	-1300	-1343	-1351	-1286	-1226	-1170	-1194	-1232	-1247	-1324
27 Total Reserves & Losses	-4535	-4431	-4310	-4281	-4573	-4751	-4757	-4593	-4420	-4260	-4303	-4340	-4477	-4694
28 Total Net Resources	36618	35051	34748	34215	37507	38742	38964	37105	35383	33754	34439	35549	35974	38192
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	3618	2087	5076	4029	4318	2326	2496	2446	3548	3722	4413	7004	4118	4088
30 Total Surplus/Deficit	3618	2087	5062	4029	4318	2326	2492	2423	3494	3688	4379	7004	4118	4088

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	31941	31941	28595	29256	32278	35790	35593	33728	30977	29235	29235	27911	30786	32973
2 Exports	1998	1998	1998	1637	1601	1601	1601	1601	1556	1556	1563	1420	1923	1923
3 Federal Diversity	-488	-524	-553	-357	-305	-560	-312	-331	-388	-496	-512	-519	-521	-423
4 Total Firm Regional Loads	33452	33415	30040	30537	33574	36830	36882	34998	32144	30294	30287	28812	32188	34473
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	33452	33415	30054	30537	33574	36830	36885	35021	32199	30328	30321	28812	32188	34473
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	26665	24360	23587	22505	25401	26087	25909	24463	23336	22668	23546	26135	25114	27059
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	23706	21971	21488	21020	24139	25568	25779	23677	22399	21709	22980	25869	25066	25148
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5370	5345	5404	5514	5621	5669	5681	5650	5604	5451	5451	4215	4828	5338
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2934	2462	2648	2894	2886
16 Imports	1086	1086	1022	1125	1450	1625	1637	1605	1244	1107	1107	996	1070	1148
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	5216	6842	6996
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17275	17249	17195	17356	17747	17971	17989	17931	16839	17358	16887	14041	16616	17388
21 Total Resources	40981	39221	38683	38376	41886	43538	43768	41608	39238	39067	39867	39910	41682	42536
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	1032	-1006	-948	-946	-1034	-1106	-1105	-1052	-989	-962	-972	-955	-1016	-1064
23 Contingency Reserves (Spinning)	0	-1006	-948	-946	-1034	-1106	-1105	-1052	-989	-962	-972	-955	-1016	-1064
24 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
25 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
26 Regional Transmission Losses	1262	-1205	-1191	-1180	-1292	-1343	-1350	-1282	-1206	-1203	-1229	-1231	-1286	-1312
27 Total Reserves & Losses	-4573	-4463	-4333	-4319	-4607	-4801	-4806	-4632	-4431	-4373	-4420	-4388	-4566	-4687
28 Total Net Resources	36408	34758	34349	34057	37279	38738	38962	36976	34806	34694	35447	35522	37115	37848
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	2956	1342	4309	3521	3705	1907	2080	1978	2662	4399	5160	6710	4927	3376
30 Total Surplus/Deficit	2956	1342	4295	3521	3705	1907	2077	1955	2607	4366	5126	6710	4927	3376

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	32412	32412	28989	29639	32684	36228	36016	34180	31354	29592	29592	28265	31214	33434
2 Exports	1923	1923	1923	1592	1556	1556	1556	1556	1556	1556	1563	1420	1923	1923
3 Federal Diversity	-497	-534	-564	-363	-311	-569	-315	-336	-391	-501	-516	-524	-525	-427
4 Total Firm Regional Loads	33838	33801	30349	30868	33929	37214	37257	35400	32519	30647	30639	29161	32612	34930
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	33838	33801	30363	30868	33929	37214	37260	35423	32573	30681	30673	29161	32612	34930
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	26595	24354	23690	22367	25330	25773	25912	24602	23905	22798	23603	26153	24904	27349
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	23636	21965	21591	20883	24069	25253	25782	23817	22968	21839	23036	25887	24856	25437
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5370	5370	5429	5514	5621	5669	5681	5650	5605	5451	5451	4259	4803	5363
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2462	2462	2385	2894	2886
16 Imports	1018	1018	953	1086	1411	1587	1598	1566	1249	1112	1112	1002	1078	1156
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6256	6256	4616	5866	6996
18 Non-Utility Generation	831	829	764	682	626	616	607	619	601	760	766	906	918	908
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17206	17205	17150	17316	17708	17932	17949	17892	16847	16151	16157	13231	15622	17419
21 Total Resources	40842	39170	38741	38199	41776	43186	43731	41709	39815	37989	39193	39118	40478	42857
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	1038	-1012	-955	-949	-1039	-1107	-1110	-1060	-1003	-950	-967	-948	-1005	-1075
23 Contingency Reserves (Spinning)	1038	-1012	-955	-949	-1039	-1107	-1110	-1060	-1003	-950	-967	-948	-1005	-1075
24 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
25 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
26 Regional Transmission Losses	1257	-1203	-1192	-1174	-1288	-1331	-1349	-1284	-1225	-1167	-1206	-1205	-1247	-1322
27 Total Reserves & Losses	-4579	-4474	-4349	-4319	-4612	-4791	-4817	-4652	-4477	-4315	-4387	-4349	-4503	-4719
28 Total Net Resources	36263	34696	34392	33880	37164	38394	38915	37057	35338	33675	34806	34769	35975	38137
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	2425	895	4043	3012	3235	1180	1658	1657	2819	3027	4166	5608	3362	3207
30 Total Surplus/Deficit	2425	895	4029	3012	3235	1180	1654	1634	2765	2994	4132	5608	3362	3207

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	32864	32864	29362	29996	33063	36645	36435	34513	31725	29943	29943	28615	31636	33888
2 Exports	1923	1923	1923	1592	1556	1556	1556	1556	1556	1556	1563	1420	1923	1923
3 Federal Diversity	-502	-540	-570	-366	-313	-573	-317	-335	-394	-504	-520	-527	-529	-430
4 Total Firm Regional Loads	34285	34248	30716	31222	34305	37627	37673	35734	32886	30995	30987	29507	33031	35381
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	34285	34248	30730	31222	34305	37627	37677	35757	32941	31028	31021	29507	33031	35381
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	26671	24366	23593	22510	25406	26093	25916	24469	23342	22674	23552	26142	25119	27066
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	23712	21977	21493	21026	24145	25574	25786	23684	22404	21715	22985	25876	25071	25154
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5370	5370	5429	5514	5621	5669	5681	5650	5605	5427	5427	4259	4828	5363
14 Renewables	78	78	78	78	78	78	79	79	79	79	79	32	32	79
15 Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2934	2462	2648	2894	2886
16 Imports	1024	1024	959	1091	1417	1593	1604	1572	1255	1117	1117	1008	1086	1164
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6478	5948	5062	6842	6996
18 Non-Utility Generation	831	828	760	680	625	616	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17213	17210	17152	17320	17712	17938	17956	17898	16851	16826	15825	13944	16632	17430
21 Total Resources	40925	39187	38645	38346	41857	43512	43742	41582	39255	38540	38811	39820	41703	42583
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-1045	-1019	-959	-956	-1045	-1117	-1116	-1063	-1000	-964	-966	-963	-1029	-1078
23 Contingency Reserves (Spinning)	-1045	-1019	-959	-956	-1045	-1117	-1116	-1063	-1000	-964	-966	-963	-1029	-1078
24 Generation Imbalance Reserves	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
25 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
26 Regional Transmission Losses	-1259	-1203	-1189	-1179	-1290	-1341	-1349	-1280	-1206	-1185	-1194	-1228	-1286	-1313
27 Total Reserves & Losses	-4596	-4487	-4353	-4338	-4627	-4823	-4828	-4653	-4453	-4359	-4373	-4401	-4590	-4715
28 Total Net Resources	36329	34700	34292	34008	37230	38690	38913	36929	34803	34182	34438	35419	37113	37869
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	2043	452	3576	2786	2925	1062	1240	1195	1916	3187	3451	5912	4082	2487
30 Total Surplus/Deficit	2043	452	3562	2786	2925	1062	1237	1172	1862	3153	3417	5912	4082	2487

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	33311	33311	29732	30351	33437	37048	36849	34966	32092	30291	30291	28963	32057	34341
2 Exports	1923	1923	1923	1592	1556	1556	1412	1412	1412	1412	1420	1420	1780	1780
3 Federal Diversity	-505	-543	-573	-368	-315	-577	-319	-340	-396	-507	-523	-530	-532	-433
4 Total Firm Regional Loads	34730	34692	31082	31575	34678	38027	37941	36038	33107	31196	31188	29852	33304	35687
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	34730	34692	31097	31575	34678	38027	37945	36061	33161	31230	31222	29852	33304	35687
<u>Hydro Resources (1 Hour.)</u>														
8 Regulated Hydro	26601	24360	23696	22373	25336	25779	25916	24606	23909	22802	23607	26159	24908	27354
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	23642	21971	21596	20888	24075	25260	25786	23821	22972	21843	23040	25893	24860	25442
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5370	5370	5429	5514	5621	5669	5681	5650	5605	5451	5451	4259	4803	5363
14 Renewables	79	79	79	79	79	79	79	79	79	79	79	32	32	79
15 Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2934	2462	2385	2617	2886
16 Imports	1031	1031	965	1097	1422	1599	1610	1578	1260	1122	1122	1014	1093	1172
17 Large Thermal	6996	6996	6996	6996	6996	6326	5746	5746	5746	5746	5746	3946	4462	5746
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17220	17219	17162	17329	17720	17275	16712	16655	15606	16123	15653	12571	13958	16188
21 Total Resources	40862	39190	38759	38217	41795	42535	42499	40476	38578	37966	38693	38463	38818	41630
<u>Reserves & Losses (1 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-1050	-1025	-966	-959	-1049	-1119	-1114	-1063	-1005	-970	-979	-958	-1002	-1080
23 Contingency Reserves (Spinning)	1050	-1025	-966	-959	-1049	-1119	-1114	-1063	-1005	-970	-979	-958	-1002	-1080
24 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
25 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
26 Regional Transmission Losses	1257	-1202	-1192	-1174	-1288	-1308	-1307	-1243	-1183	-1165	-1189	-1183	-1191	-1280
27 Total Reserves & Losses	-4604	-4500	-4370	-4339	-4634	-4792	-4782	-4615	-4439	-4352	-4394	-4346	-4442	-4687
28 Total Net Resources	36257	34690	34388	33878	37161	37742	37717	35860	34139	33614	34299	34117	34376	36943
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	1528	-2	3306	2303	2483	-284	-224	-178	1032	2419	3111	4265	1072	1256
30 Total Surplus/Deficit	1528	-2	3292	2303	2483	-284	-228	-201	977	2385	3077	4265	1072	1256

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Monthly Regional
Loads & Resources
120-Hour Capacity in Megawatts

For OY 2012 – 2021

Power Services

Reports Powered by:



Loads and Resources Information System

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	28330	28330	25558	26294	29107	32268	31978	30410	27877	26374	26374	25039	27377	29372
2 Exports	2653	2653	2646	2140	2007	2005	2003	2004	2006	2035	2043	2012	2516	2518
3 Federal Diversity	-817	-884	-933	-1179	-1084	-1068	-1125	-1133	-1038	-1004	-1077	-1011	-864	-782
4 Total Firm Regional Loads	30166	30099	27271	27255	30030	33204	32856	31281	28845	27405	27340	26040	29029	31108
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	30166	30099	27285	27255	30030	33204	32860	31304	28899	27439	27374	26040	29029	31108
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	24648	21668	21467	20976	23261	23011	23066	22001	21099	19411	18158	24074	23197	25083
9 Independent Hydro	1581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2040	2100	1754
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	21635	19225	19313	19438	21945	22437	22882	21162	20108	18398	17537	23754	23095	23117
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5360	5360	5423	5517	5631	5685	5697	5662	5614	5457	5457	4190	4797	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	78	31	78
15 Cogeneration	2882	2882	2899	2932	2948	2959	2962	2955	2291	2938	2938	2389	2898	2890
16 Imports	1253	1253	1111	1216	1646	1969	1982	1950	1381	1227	1227	1111	1173	1379
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	5746	6842	6996
18 Non-Utility Generation	824	823	757	676	620	609	600	612	591	753	754	896	911	903
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17425	17423	17296	17447	17950	18327	18347	18285	16983	17480	17482	14441	16684	17932
21 Total Resources	39060	36648	36609	36885	39896	40764	41228	39446	37091	35878	35018	38195	39780	41049
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-925	-885	-892	-968	-1021	-1022	-979	-923	-883	-870	-899	-949	-994	-994
23 Contingency Reserves (Spinning)	961	-925	-885	-892	-968	-1021	-1022	-979	-923	-883	-870	-899	-949	-994
24 Generation Imbalance Reserves	311	-311	-338	-290	-290	-290	-290	-290	-294	-320	-320	-320	-320	-320
25 Load Following Reserves	-415	-415	-432	-403	-403	-403	-403	-403	-408	-419	-419	-419	-419	-419
26 Regional Transmission Losses	-1220	-1141	-1141	-1153	-1248	-1274	-1289	-1233	-1157	-1118	-1090	-1195	-1244	-1284
27 Total Reserves & Losses	-3867	-3717	-3681	-3630	-3878	-4010	-4028	-3884	-3705	-3624	-3569	-3731	-3882	-4011
28 Total Net Resources	35192	32931	32928	33255	36018	36754	37201	35562	33386	32254	31450	34465	35898	37037
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	5026	2831	5657	6000	5988	3550	4344	4281	4542	4849	4110	8424	6869	5929
30 Total Surplus/Deficit	5026	2831	5643	6000	5988	3550	4341	4258	4488	4815	4076	8424	6869	5929

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	28895	28895	26038	26784	29682	32905	32654	31106	28489	26980	26980	25639	28077	30141
2 Exports	2525	2525	2523	2127	1994	1992	1788	1788	1791	1820	1827	1797	2301	2303
3 Federal Diversity	-738	-798	-858	-1193	-1098	-1080	-1137	-1155	-1050	-1015	-1089	-1024	-875	-798
4 Total Firm Regional Loads	30682	30622	27703	27718	30577	33817	33305	31739	29231	27785	27719	26412	29504	31646
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	30682	30622	27718	27718	30577	33817	33309	31762	29285	27819	27753	26412	29504	31646
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	24804	22412	21896	20972	23360	23196	23202	22153	21214	19541	18310	24031	23171	25091
9 Independent Hydro	1581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2040	2100	1754
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	21790	19969	19742	19434	22044	22623	23018	21313	20223	18528	17689	23711	23068	23125
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5985	5997	5962	5914	5757	5757	4515	5097	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2466	2466	2389	2898	2890
16 Imports	1260	1260	1117	1222	1621	1795	1807	1775	1387	1157	1157	1042	1106	1180
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6256	6256	4616	5866	6996
18 Non-Utility Generation	825	823	758	676	620	609	605	617	596	758	759	901	925	902
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17735	17734	17606	17753	18226	18453	18478	18415	17294	16503	16505	13525	15955	17731
21 Total Resources	39526	37703	37348	37187	40271	41076	41496	39729	37516	35031	34193	37236	39023	40856
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	970	-943	-896	-898	-977	-1031	-1032	-989	-932	-875	-861	-888	-943	-1004
23 Contingency Reserves (Spinning)	970	-943	-896	-898	-977	-1031	-1032	-989	-932	-875	-861	-888	-943	-1004
24 Generation Imbalance Reserves	350	-350	-353	-353	-353	-387	-387	-396	-396	-396	-396	-396	-396	-399
25 Load Following Reserves	-433	-433	-436	-438	-438	-466	-466	-470	-470	-470	-470	-470	-470	-474
26 Regional Transmission Losses	1233	-1174	-1165	-1159	-1257	-1278	-1292	-1236	-1165	-1086	-1059	-1159	-1215	-1272
27 Total Reserves & Losses	-3957	-3843	-3746	-3745	-4001	-4193	-4209	-4080	-3895	-3701	-3648	-3802	-3968	-4153
28 Total Net Resources	35569	33860	33602	33441	36269	36883	37286	35649	33622	31329	30546	33434	35055	36703
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	4887	3238	5899	5723	5692	3066	3981	3910	4391	3545	2827	7022	5552	5057
30 Total Surplus/Deficit	4887	3238	5885	5723	5692	3066	3978	3887	4337	3511	2793	7022	5552	5057

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	29636	29636	26665	27414	30366	33712	33470	31804	29182	27565	27565	26221	28803	30854
2 Exports	2318	2318	2316	1940	1806	1805	1803	1804	1806	1835	1842	1812	2316	2318
3 Federal Diversity	-753	-814	-877	-1216	-1120	-1104	-1164	-1175	-1073	-1036	-1111	-1043	-889	-804
4 Total Firm Regional Loads	31201	31139	28103	28138	31053	34413	34109	32433	29915	28363	28296	26989	30230	32368
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	31201	31139	28118	28138	31053	34413	34112	32456	29969	28397	28330	26989	30230	32368
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	24914	22357	21945	21029	23514	23329	23268	22189	21257	19607	18336	24153	23420	25072
9 Independent Hydro	1581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	21900	19913	19791	19490	22198	22756	23084	21350	20266	18594	17715	23886	23372	23161
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5985	5997	5962	5914	5757	5757	4490	4825	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2938	2466	2652	2898	2890
16 Imports	1059	1059	998	1102	1502	1676	1688	1656	1267	1162	1162	1047	1114	1188
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6478	5948	5062	6842	6996
18 Non-Utility Generation	830	828	763	681	625	614	606	618	597	759	760	902	917	909
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17539	17538	17492	17639	18112	18339	18359	18297	17175	17203	16202	14216	16659	17746
21 Total Resources	39440	37451	37283	37129	40310	41095	41443	39647	37441	35797	33917	38103	40031	40907
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	982	-952	-905	-906	-987	-1044	-1044	-999	-941	-894	-865	-908	-967	-1013
23 Contingency Reserves (Spinning)	982	-952	-905	-906	-987	-1044	-1044	-999	-941	-894	-865	-908	-967	-1013
24 Generation Imbalance Reserves	411	-411	-411	-424	-424	-424	-424	-424	-424	-427	-427	-427	-470	-470
25 Load Following Reserves	-486	-486	-486	-502	-502	-502	-502	-503	-503	-504	-504	-504	-532	-532
26 Regional Transmission Losses	1225	-1161	-1158	-1152	-1253	-1276	-1287	-1230	-1160	-1108	-1047	-1184	-1243	-1269
27 Total Reserves & Losses	-4086	-3962	-3866	-3889	-4153	-4289	-4301	-4155	-3970	-3827	-3708	-3933	-4177	-4297
28 Total Net Resources	35353	33489	33417	33239	36157	36806	37142	35492	33471	31970	30209	34170	35854	36610
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	4153	2350	5314	5101	5104	2394	3033	3059	3556	3607	1913	7181	5624	4242
30 Total Surplus/Deficit	4153	2350	5300	5101	5104	2394	3030	3036	3502	3573	1879	7181	5624	4242

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	30350	30350	27264	28034	30985	34384	34156	32477	29724	28068	28068	26735	29404	31496
2 Exports	2332	2332	2330	1954	1820	1819	1642	1643	1645	1674	1681	1635	2140	2141
3 Federal Diversity	-759	-821	-883	-1228	-1132	-1115	-1176	-1192	-1084	-1046	-1122	-1055	-900	-813
4 Total Firm Regional Loads	31923	31861	28711	28760	31674	35088	34622	32928	30285	28696	28628	27316	30644	32824
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	31923	31861	28725	28760	31674	35088	34626	32951	30340	28730	28661	27316	30644	32824
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	24991	22440	21928	21063	23593	23401	23334	22273	21356	19628	18393	24176	23156	25171
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	22032	20051	19829	19578	22332	22881	23204	21488	20419	18669	17826	23910	23108	23259
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5985	5997	5962	5914	5757	5757	4515	5097	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2938	2466	2652	2898	2890
16 Imports	1066	1066	1004	1108	1508	1682	1694	1662	1272	1166	1166	1053	1122	1197
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	4616	5712	6996
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17547	17546	17499	17645	18119	18346	18366	18304	17181	17727	17256	13801	15810	17756
21 Total Resources	39580	37597	37328	37223	40451	41227	41570	39792	37600	36395	35082	37712	38918	41015
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	993	-963	-913	-915	-997	-1054	-1055	-1009	-950	-908	-888	-909	-957	-1022
23 Contingency Reserves (Spinning)	993	-963	-913	-915	-997	-1054	-1055	-1009	-950	-908	-888	-909	-957	-1022
24 Generation Imbalance Reserves	470	-470	-470	-481	-481	-481	-482	-486	-486	-486	-486	-486	-539	-539
25 Load Following Reserves	-532	-532	-532	-535	-535	-535	-537	-555	-555	-555	-555	-555	-582	-582
26 Regional Transmission Losses	-1226	-1161	-1156	-1152	-1254	-1276	-1288	-1231	-1161	-1124	-1081	-1168	-1202	-1268
27 Total Reserves & Losses	-4212	-4088	-3982	-3997	-4264	-4400	-4416	-4290	-4102	-3981	-3898	-4026	-4239	-4434
28 Total Net Resources	35367	33508	33345	33226	36187	36827	37154	35502	33498	32415	31184	33686	34679	36581
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	3444	1647	4635	4466	4513	1739	2532	2575	3213	3719	2557	6370	4035	3756
30 Total Surplus/Deficit	3444	1647	4621	4466	4513	1739	2528	2552	3158	3685	2523	6370	4035	3756

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	30948	30948	27778	28510	31482	34915	34691	32885	30196	28500	28500	27164	29899	32017
2 Exports	2142	2142	2140	1779	1645	1644	1642	1643	1645	1674	1681	1523	2028	2018
3 Federal Diversity	-768	-830	-892	-1242	-1146	-1128	-1188	-1191	-1094	-1055	-1132	-1065	-908	-821
4 Total Firm Regional Loads	32322	32260	29025	29047	31980	35431	35145	33336	30747	29118	29050	27623	31018	33214
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	32322	32260	29039	29047	31980	35431	35148	33359	30801	29152	29083	27623	31018	33214
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	25059	22493	21991	21127	23656	23504	23453	22383	21418	19692	18426	24421	23381	25263
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	22100	20104	19891	19642	22394	22984	23323	21598	20481	18733	17859	24155	23333	23351
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5984	5998	5962	5914	5757	5757	4515	5097	5653
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2466	2466	2652	2898	2890
16 Imports	1073	1073	1010	1113	1438	1613	1625	1593	1278	1171	1171	1059	1130	1206
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	5586	5056	6416	6996	6996
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17555	17554	17506	17651	18050	18277	18297	18235	17186	15850	15321	15608	17102	17764
21 Total Resources	39655	37657	37397	37293	40444	41262	41620	39832	37668	34582	33180	39762	40435	41115
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	1000	-971	-919	-921	-1003	-1062	-1062	-1016	-956	-886	-865	-943	-986	-1030
23 Contingency Reserves (Spinning)	1000	-971	-919	-921	-1003	-1062	-1062	-1016	-956	-886	-865	-943	-986	-1030
24 Generation Imbalance Reserves	543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-585	-585
25 Load Following Reserves	-592	-592	-592	-593	-593	-593	-593	-593	-593	-593	-593	-593	-624	-624
26 Regional Transmission Losses	1223	-1158	-1153	-1150	-1250	-1273	-1285	-1228	-1160	-1061	-1016	-1231	-1248	-1268
27 Total Reserves & Losses	-4359	-4234	-4127	-4128	-4392	-4533	-4546	-4396	-4209	-3970	-3881	-4254	-4428	-4537
28 Total Net Resources	35296	33423	33271	33165	36051	36729	37074	35436	33459	30613	29299	35508	36007	36579
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	2974	1163	4246	4119	4071	1298	1929	2100	2712	1494	250	7886	4988	3364
30 Total Surplus/Deficit	2974	1163	4231	4119	4071	1298	1926	2077	2657	1460	216	7886	4988	3364

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	31464	31464	28201	28881	31869	35350	35158	33369	30596	28870	28870	27540	30348	32501
2 Exports	2018	2018	2018	1657	1620	1618	1618	1618	1620	1650	1658	1514	2018	2018
3 Federal Diversity	-775	-838	-901	-1252	-1155	-1136	-1202	-1217	-1107	-1066	-1144	-1077	-919	-830
4 Total Firm Regional Loads	32707	32644	29318	29287	32335	35833	35573	33769	31109	29454	29385	27977	31448	33689
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	32707	32644	29332	29287	32335	35833	35577	33792	31164	29488	29419	27977	31448	33689
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	25029	22496	22013	21151	23678	23514	23553	22448	21308	19725	18520	24184	23364	25247
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	22070	20107	19913	19667	22417	22995	23423	21663	20371	18766	17953	23918	23316	23335
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5660	5660	5723	5817	5931	5984	5681	5650	5604	5451	5451	4215	4828	5338
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	78	78
15 Cogeneration	2886	2886	2903	2932	2948	2959	2958	2952	2287	2934	2462	2648	2894	2886
16 Imports	1080	1080	1017	1119	1444	1619	1631	1599	1283	1177	1177	1065	1138	1215
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	5808	5808	5132	5712	6996
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17562	17561	17512	17657	18056	18284	17983	17925	16879	16240	15769	14027	15601	17455
21 Total Resources	39632	37668	37425	37324	40472	41278	41406	39588	37249	35006	33722	37945	38917	40790
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-1006	-977	-925	-926	-1008	-1067	-1065	-1018	-955	-897	-877	-921	-969	-1031
23 Contingency Reserves (Spinning)	1006	-977	-925	-926	-1008	-1067	-1065	-1018	-955	-897	-877	-921	-969	-1031
24 Generation Imbalance Reserves	585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-610	-610
25 Load Following Reserves	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-637	-637
26 Regional Transmission Losses	-1220	-1156	-1151	-1148	-1248	-1271	-1275	-1217	-1143	-1072	-1030	-1169	-1197	-1256
27 Total Reserves & Losses	-4441	-4319	-4210	-4209	-4474	-4614	-4614	-4463	-4262	-4075	-3994	-4220	-4382	-4565
28 Total Net Resources	35191	33349	33215	33115	35998	36664	36792	35125	32987	30931	29729	33725	34535	36225
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	2483	705	3897	3828	3663	832	1219	1356	1878	1476	344	5748	3087	2536
30 Total Surplus/Deficit	2483	705	3883	3828	3663	832	1215	1333	1824	1443	310	5748	3087	2536

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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	31941	31941	28595	29256	32278	35790	35593	33728	30977	29235	29235	27911	30786	32973
2 Exports	1998	1998	1998	1637	1601	1601	1601	1601	1556	1556	1563	1420	1923	1923
3 Federal Diversity	-784	-848	-911	-1267	-1171	-1150	-1221	-1230	-1126	-1085	-1163	-1097	-936	-845
4 Total Firm Regional Loads	33155	33092	29682	29627	32708	36240	35972	34099	31407	29706	29635	28233	31773	34051
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	33155	33092	29696	29627	32708	36240	35976	34122	31461	29740	29669	28233	31773	34051
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	25034	22490	22044	21244	23773	23622	23571	22500	21536	19829	18563	24518	23426	25307
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	22074	20100	19945	19759	22512	23102	23441	21715	20599	18870	17996	24252	23378	23395
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5370	5345	5404	5514	5621	5669	5681	5650	5604	5451	5451	4215	4828	5338
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2934	2462	2648	2894	2886
16 Imports	1086	1086	1022	1125	1450	1625	1637	1605	1244	1107	1107	996	1070	1148
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	5216	6842	6996
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17275	17249	17195	17356	17747	17971	17989	17931	16839	17358	16887	14041	16616	17388
21 Total Resources	39349	37350	37140	37115	40259	41073	41429	39645	37437	36227	34883	38293	39993	40783
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	1008	-978	-925	-928	-1010	-1070	-1070	-1023	-963	-920	-900	-931	-992	-1039
23 Contingency Reserves (Spinning)	1008	-978	-925	-928	-1010	-1070	-1070	-1023	-963	-920	-900	-931	-992	-1039
24 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
25 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
26 Regional Transmission Losses	1209	-1144	-1140	-1139	-1239	-1263	-1274	-1218	-1148	-1110	-1067	-1179	-1232	-1255
27 Total Reserves & Losses	-4472	-4348	-4238	-4241	-4507	-4649	-4662	-4511	-4321	-4198	-4113	-4288	-4462	-4579
28 Total Net Resources	34877	33002	32902	32874	35752	36424	36767	35134	33117	32030	30771	34005	35531	36204
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	1722	-90	3220	3247	3043	184	795	1035	1710	2324	1136	5771	3759	2153
30 Total Surplus/Deficit	1722	-90	3205	3247	3043	184	792	1012	1656	2290	1102	5771	3759	2153

Loads and Resources - Pacific Northwest Region
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	32412	32412	28989	29639	32684	36228	36016	34180	31354	29592	29592	28265	31214	33434
2 Exports	1923	1923	1923	1592	1556	1556	1556	1556	1556	1556	1563	1420	1923	1923
3 Federal Diversity	-799	-864	-929	-1290	-1193	-1169	-1233	-1248	-1136	-1094	-1174	-1107	-945	-853
4 Total Firm Regional Loads	33536	33471	29983	29941	33047	36614	36338	34488	31774	30053	29982	28577	32193	34504
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	33536	33471	29998	29941	33047	36614	36342	34511	31829	30087	30015	28577	32193	34504
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	25073	22541	22057	21195	23723	23559	23597	22492	21351	19789	18584	24209	23370	25253
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	22114	20151	19957	19711	22461	23040	23467	21707	20414	18830	18017	23943	23322	23341
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5370	5370	5429	5514	5621	5669	5681	5650	5605	5451	5451	4259	4803	5363
14 Renewables	78	78	78	78	78	78	78	78	78	78	78	31	31	78
15 Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2462	2462	2385	2894	2886
16 Imports	1018	1018	953	1086	1411	1587	1598	1566	1249	1112	1112	1002	1078	1156
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6256	6256	4616	5866	6996
18 Non-Utility Generation	831	829	764	682	626	616	607	619	601	760	766	906	918	908
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17206	17205	17150	17316	17708	17932	17949	17892	16847	16151	16157	13231	15622	17419
21 Total Resources	39320	37356	37107	37027	40169	40972	41416	39599	37262	34980	34173	37174	38944	40761
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-986	-986	-931	-932	-1015	-1075	-1077	-1029	-966	-907	-894	-920	-983	-1045
23 Contingency Reserves (Spinning)	1015	-986	-931	-932	-1015	-1075	-1077	-1029	-966	-907	-894	-920	-983	-1045
24 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
25 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
26 Regional Transmission Losses	1207	-1144	-1139	-1136	-1236	-1259	-1274	-1216	-1142	-1069	-1043	-1142	-1197	-1254
27 Total Reserves & Losses	-4485	-4362	-4248	-4247	-4513	-4655	-4674	-4521	-4320	-4129	-4078	-4229	-4409	-4590
28 Total Net Resources	34835	32994	32859	32780	35656	36317	36743	35077	32942	30851	30096	32945	34535	36170
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	1300	-477	2875	2839	2608	-297	404	589	1168	798	114	4367	2342	1666
30 Total Surplus/Deficit	1300	-477	2861	2839	2608	-297	401	566	1114	764	80	4367	2342	1666

Loads and Resources - Pacific Northwest Region
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	32864	32864	29362	29996	33063	36645	36435	34513	31725	29943	29943	28615	31636	33888
2 Exports	1923	1923	1923	1592	1556	1556	1556	1556	1556	1556	1563	1420	1923	1923
3 Federal Diversity	-807	-872	-938	-1300	-1202	-1177	-1243	-1244	-1144	-1102	-1182	-1115	-951	-859
4 Total Firm Regional Loads	33981	33915	30347	30288	33417	37023	36748	34825	32137	30397	30325	28920	32608	34953
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	33981	33915	30362	30288	33417	37023	36751	34848	32191	30431	30358	28920	32608	34953
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	25040	22495	22050	21250	23779	23628	23577	22506	21541	19835	18569	24525	23431	25313
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	22080	20106	19950	19765	22518	23109	23447	21721	20604	18875	18002	24259	23383	23402
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5370	5370	5429	5514	5621	5669	5681	5650	5605	5427	5427	4259	4828	5363
14 Renewables	78	78	78	78	78	78	79	79	79	79	79	32	32	79
15 Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2934	2462	2648	2894	2886
16 Imports	1024	1024	959	1091	1417	1593	1604	1572	1255	1117	1117	1008	1086	1164
17 Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6478	5948	5062	6842	6996
18 Non-Utility Generation	831	828	760	680	625	616	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17213	17210	17152	17320	17712	17938	17956	17898	16851	16826	15825	13944	16632	17430
21 Total Resources	39293	37316	37102	37085	40230	41047	41403	39619	37455	35701	33827	38203	40015	40831
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-1021	-992	-936	-938	-1021	-1082	-1082	-1034	-974	-922	-894	-940	-1004	-1052
23 Contingency Reserves (Spinning)	-1021	-992	-936	-938	-1021	-1082	-1082	-1034	-974	-922	-894	-940	-1004	-1052
24 Generation Imbalance Reserves	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
25 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
26 Regional Transmission Losses	-1206	-1142	-1138	-1138	-1238	-1261	-1273	-1216	-1148	-1092	-1032	-1175	-1231	-1256
27 Total Reserves & Losses	-4495	-4372	-4258	-4260	-4527	-4671	-4684	-4532	-4342	-4184	-4065	-4302	-4486	-4607
28 Total Net Resources	34798	32944	32844	32825	35703	36376	36719	35088	33113	31518	29762	33902	35529	36224
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	817	-971	2497	2537	2286	-647	-29	263	977	1121	-563	4982	2921	1272
30 Total Surplus/Deficit	817	-971	2483	2537	2286	-647	-33	240	922	1087	-597	4982	2921	1272

Loads and Resources - Pacific Northwest Region
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Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<u>Firm Regional Loads</u>														
1 Regional Firm Loads	33311	33311	29732	30351	33437	37048	36849	34966	32092	30291	30291	28963	32057	34341
2 Exports	1923	1923	1923	1592	1556	1556	1412	1412	1412	1412	1420	1420	1780	1780
3 Federal Diversity	-812	-878	-943	-1308	-1209	-1184	-1251	-1264	-1150	-1108	-1188	-1122	-957	-864
4 Total Firm Regional Loads	34423	34357	30712	30635	33784	37419	37010	35114	32353	30595	30522	29261	32879	35256
<u>Non-Firm Regional Loads</u>														
5 Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
6 Total Non-Firm Regional Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
7 Total Loads	34423	34357	30726	30635	33784	37419	37014	35137	32407	30629	30556	29261	32879	35256
<u>Hydro Resources (120 Hour.)</u>														
8 Regulated Hydro	25079	22547	22062	21201	23728	23565	23602	22496	21355	19793	18588	24215	23374	25258
9 Independent Hydro	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
10 Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
11 Total Hydro Resources	22120	20157	19963	19716	22467	23046	23472	21711	20418	18834	18021	23948	23326	23346
<u>Other Resources</u>														
12 Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32
13 Combustion Turbines	5370	5370	5429	5514	5621	5669	5681	5650	5605	5451	5451	4259	4803	5363
14 Renewables	79	79	79	79	79	79	79	79	79	79	79	32	32	79
15 Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2934	2462	2385	2617	2886
16 Imports	1031	1031	965	1097	1422	1599	1610	1578	1260	1122	1122	1014	1093	1172
17 Large Thermal	6996	6996	6996	6996	6996	6326	5746	5746	5746	5746	5746	3946	4462	5746
18 Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910
19 Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Resources	17220	17219	17162	17329	17720	17275	16712	16655	15606	16123	15653	12571	13958	16188
21 Total Resources	39340	37376	37125	37045	40187	40321	40184	38366	36025	34957	33674	36519	37284	39534
<u>Reserves & Losses (120 Hour.)</u>														
22 Contingency Reserves (Non-Spinning)	-1028	-999	-942	-942	-1026	-1086	-1080	-1032	-967	-926	-906	-930	-980	-1049
23 Contingency Reserves (Spinning)	0	-999	-942	-942	-1026	-1086	-1080	-1032	-967	-926	-906	-930	-980	-1049
24 Generation Imbalance Reserves	610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
25 Load Following Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
26 Regional Transmission Losses	1207	-1143	-1139	-1136	-1236	-1236	-1232	-1174	-1100	-1067	-1026	-1119	-1142	-1212
27 Total Reserves & Losses	-4511	-4388	-4270	-4267	-4535	-4656	-4639	-4485	-4282	-4166	-4085	-4226	-4347	-4558
28 Total Net Resources	34830	32988	32856	32778	35652	35665	35545	33880	31743	30791	29589	32293	32936	34976
<u>Surplus/Deficits</u>														
29 Firm Surplus/Deficit	407	-1369	2144	2142	1869	-1754	-1465	-1234	-610	196	-933	3032	57	-280
30 Total Surplus/Deficit	407	-1369	2130	2142	1869	-1754	-1469	-1257	-665	162	-967	3032	57	-280

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Section 12
Monthly Regional 70-Water Year
Surplus/Deficit

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Monthly Regional 70-Water Year
Surplus/Deficit
1-Hour Capacity in Megawatts
For OY 2012 – 2021

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	3721	3634	6657	5340	6285	5220	5150	4668	6132	8898	9508	10630	9215	7594
<i>1994 Regional Surplus/Deficit</i>	6697	5291	6496	5690	7142	5353	5163	6679	6618	6895	10659	9574	8402	6004
<i>1995 Regional Surplus/Deficit</i>	4106	3892	6784	5657	5909	4440	5763	9425	10558	12169	10973	11004	10721	8424
<i>1996 Regional Surplus/Deficit</i>	7009	5070	7304	7908	10661	9968	10383	11130	11445	12839	12729	11040	11006	9401
<i>1997 Regional Surplus/Deficit</i>	9054	6214	8071	7576	7327	7861	10376	10701	11552	12515	12250	10624	10768	9482
<i>1998 Regional Surplus/Deficit</i>	9169	7527	10347	11513	9860	7640	8685	9471	9790	10797	11508	11116	11166	8312

**Table A-30: Regional Surplus/Deficit - By Water Year
 PNW Loads and Resource Study
 2012 - 2013 Operating Year
 [76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	3675	1969	5967	5173	6433	4792	4884	4052	5799	7636	8136	9445	8062	6923
<i>1994 Regional Surplus/Deficit</i>	5332	4172	7050	5537	7440	4920	4896	6106	6275	5717	9303	8421	7250	5545
<i>1995 Regional Surplus/Deficit</i>	4914	3236	7129	5503	5773	4029	5497	8843	10364	10820	9632	9825	9532	7664
<i>1996 Regional Surplus/Deficit</i>	5855	4870	8207	7672	10970	9373	9986	10620	11344	11516	11397	9835	9602	8597
<i>1997 Regional Surplus/Deficit</i>	7150	6469	7238	7364	7595	7359	9976	10192	11441	11191	10936	9415	9454	8711
<i>1998 Regional Surplus/Deficit</i>	7252	7137	9782	11210	9969	7139	8407	9060	9290	9470	10211	9910	9766	7575

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	2997	876	5493	4982	5269	4063	3737	3165	4940	7730	7142	9373	7998	5900
<i>1994 Regional Surplus/Deficit</i>	4659	3363	6374	5304	6138	4169	3734	5203	5416	5760	8315	8384	7225	4402
<i>1995 Regional Surplus/Deficit</i>	4240	2323	6455	5270	4865	3669	4350	8201	9194	10827	8650	9734	9503	6765
<i>1996 Regional Surplus/Deficit</i>	5181	4141	7499	7726	9733	8574	8946	9720	10417	11493	10429	9791	9592	7658
<i>1997 Regional Surplus/Deficit</i>	6446	5791	6633	7376	6322	6508	8934	9290	10487	11169	9977	9334	9376	7754
<i>1998 Regional Surplus/Deficit</i>	6549	6433	9149	10691	8846	6296	7383	8144	8418	9550	9250	9894	9739	6707

**Table A-30: Regional Surplus/Deficit - By Water Year
 PNW Loads and Resource Study
 2014 - 2015 Operating Year
 [76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	2399	307	4906	4111	4730	3644	3227	2556	4627	7713	7618	8776	6380	5749
<i>1994 Regional Surplus/Deficit</i>	4019	2676	5908	4512	5580	3735	3229	4665	5087	5771	8849	7836	5602	4352
<i>1995 Regional Surplus/Deficit</i>	3608	1674	5988	4479	4321	3506	3841	7910	8502	10942	9205	9167	7928	6406
<i>1996 Regional Surplus/Deficit</i>	4533	3437	7044	6465	9005	7909	8407	9158	10006	11641	10996	9177	7997	7230
<i>1997 Regional Surplus/Deficit</i>	5807	5124	6125	6194	5773	5931	8398	8728	10049	11320	10566	8746	7699	7331
<i>1998 Regional Surplus/Deficit</i>	5910	5800	8616	9889	8177	5729	6829	7623	8038	9572	9853	9260	8145	6339

**Table A-30: Regional Surplus/Deficit - By Water Year
 PNW Loads and Resource Study
 2015 - 2016 Operating Year
 [76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	1810	-170	4847	3649	4231	3167	2708	2088	3990	5529	5328	9902	7311	5023
<i>1994 Regional Surplus/Deficit</i>	3544	2182	5481	4046	5076	3254	2726	4139	4491	3626	6503	8990	6590	3426
<i>1995 Regional Surplus/Deficit</i>	3112	1184	5561	4012	3821	2936	3321	7298	7974	8634	6835	10318	8778	5818
<i>1996 Regional Surplus/Deficit</i>	4084	2943	6614	6049	8445	7311	7592	8493	9354	9298	8651	10279	8819	6691
<i>1997 Regional Surplus/Deficit</i>	5342	4647	5721	5766	5271	5394	7594	8064	9461	8973	8187	9857	8530	6773
<i>1998 Regional Surplus/Deficit</i>	5446	5331	8209	9481	7642	5193	6124	7015	7518	7335	7433	10374	8973	5732

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	1459	-582	4686	3309	3805	2464	1986	1431	3855	5573	5391	8121	5424	4448
<i>1994 Regional Surplus/Deficit</i>	2896	1753	5394	3724	4648	2575	2009	3557	4319	3744	6472	7141	4632	3145
<i>1995 Regional Surplus/Deficit</i>	2468	767	5474	3691	3390	1790	2597	6637	7444	8605	6775	8509	6989	5071
<i>1996 Regional Surplus/Deficit</i>	3430	2484	6515	5649	7923	6817	6775	7664	8520	9255	8584	8525	7035	5892
<i>1997 Regional Surplus/Deficit</i>	4692	4068	5591	5365	4845	4896	6783	7234	8627	8930	8108	8075	6771	6000
<i>1998 Regional Surplus/Deficit</i>	4794	4699	7995	9238	7190	4694	5314	6361	7058	7330	7332	8610	7194	4994

**Table A-30: Regional Surplus/Deficit - By Water Year
 PNW Loads and Resource Study
 2017 - 2018 Operating Year
 [76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	965	-1255	3928	2771	3197	2054	1562	1008	2979	6321	6168	7805	6085	3815
<i>1994 Regional Surplus/Deficit</i>	2304	1026	4631	3167	4042	2140	1580	3059	3480	4417	7344	6892	5365	2218
<i>1995 Regional Surplus/Deficit</i>	1905	66	4710	3134	2787	1823	2174	6218	6963	9426	7676	8220	7552	4609
<i>1996 Regional Surplus/Deficit</i>	2796	1735	5760	5171	7411	6198	6446	7412	8343	10089	9492	8181	7593	5483
<i>1997 Regional Surplus/Deficit</i>	3914	3287	4830	4888	4237	4281	6448	6983	8368	9765	9028	7759	7304	5565
<i>1998 Regional Surplus/Deficit</i>	4015	3912	7243	8603	6608	4080	4978	5934	6507	8126	8273	8276	7748	4524

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	281	-1759	3665	2305	2735	1331	1158	652	3135	4883	5144	6746	4678	3579
<i>1994 Regional Surplus/Deficit</i>	1718	576	4374	2720	3578	1443	1182	2778	3599	3054	6224	5766	3885	2276
<i>1995 Regional Surplus/Deficit</i>	1289	-410	4453	2687	2320	658	1770	5858	6724	7915	6527	7134	6242	4202
<i>1996 Regional Surplus/Deficit</i>	2252	1307	5494	4644	6853	5685	5948	6885	7801	8565	8337	7150	6289	5023
<i>1997 Regional Surplus/Deficit</i>	3514	2891	4570	4361	3775	3763	5956	6456	7908	8240	7860	6700	6025	5131
<i>1998 Regional Surplus/Deficit</i>	3616	3522	6974	8234	6120	3562	4487	5582	6338	6640	7085	7235	6447	4125

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	64	-2133	3204	2046	2427	1220	733	236	2243	5128	4490	7018	5252	2939
<i>1994 Regional Surplus/Deficit</i>	1403	148	3907	2443	3272	1307	751	2287	2745	3225	5665	6105	4532	1342
<i>1995 Regional Surplus/Deficit</i>	1004	-813	3987	2409	2017	989	1345	5446	6227	8233	5997	7433	6719	3733
<i>1996 Regional Surplus/Deficit</i>	1895	856	5037	4446	6642	5364	5617	6640	7607	8897	7813	7394	6760	4607
<i>1997 Regional Surplus/Deficit</i>	3013	2408	4107	4163	3468	3447	5619	6212	7627	8572	7349	6972	6471	4689
<i>1998 Regional Surplus/Deficit</i>	3114	3033	6520	7878	5838	3247	4149	5162	5772	6934	6594	7489	6915	3648

Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	-604	-2643	2938	1605	1994	-99	-679	-1138	1392	4299	4117	5435	2439	1674
<i>1994 Regional Surplus/Deficit</i>	832	-309	3647	2020	2837	12	-655	988	1856	2469	5198	4455	1646	370
<i>1995 Regional Surplus/Deficit</i>	404	-1295	3726	1987	1579	-773	-67	4068	4981	7331	5501	5823	4003	2297
<i>1996 Regional Surplus/Deficit</i>	1366	422	4767	3944	6112	4254	4111	5095	6057	7981	7310	5839	4049	3118
<i>1997 Regional Surplus/Deficit</i>	2629	2007	3843	3661	3034	2333	4119	4666	6164	7655	6834	5389	3785	3225
<i>1998 Regional Surplus/Deficit</i>	2730	2637	6247	7534	5378	2131	2650	3792	4594	6055	6059	5925	4208	2220

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Monthly Regional 70-Water Year
Surplus/Deficit
120-Hour Capacity in Megawatts

For OY 2012 – 2021

Power Services

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Loads and Resources Information System

**Table A-30: Regional Surplus/Deficit - By Water Year
 PNW Loads and Resource Study
 2011 - 2012 Operating Year
 [76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	1688	1206	4805	5279	5633	3686	3926	2528	4853	6979	6784	10144	8251	6391
<i>1994 Regional Surplus/Deficit</i>	4740	3135	4651	5670	6315	3815	4005	5277	5314	5368	7968	8693	7410	4708
<i>1995 Regional Surplus/Deficit</i>	2543	1427	5070	5636	5303	2991	4534	8182	9364	10487	8487	10381	10041	7475
<i>1996 Regional Surplus/Deficit</i>	5052	2859	6090	7517	10155	9995	10554	11221	11132	11914	12597	10807	10535	8704
<i>1997 Regional Surplus/Deficit</i>	7838	4139	6858	7288	6574	6627	10573	10791	11326	11785	12129	10327	10267	8790
<i>1998 Regional Surplus/Deficit</i>	7842	5546	8907	10892	8561	6394	7162	8290	8498	8704	9798	11015	10712	7298

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	2402	373	5346	5004	5315	3198	3559	2174	4697	5690	5520	8846	7023	5532
<i>1994 Regional Surplus/Deficit</i>	4084	2868	5938	5403	6015	3319	3637	4899	5160	4084	6722	7331	6171	3812
<i>1995 Regional Surplus/Deficit</i>	3646	1821	6022	5370	4968	2540	4167	7796	9240	9184	7248	9056	8861	6622
<i>1996 Regional Surplus/Deficit</i>	4656	3664	6925	7230	9694	9263	10124	10779	11008	10542	11274	9517	9051	7817
<i>1997 Regional Surplus/Deficit</i>	6452	5404	6311	7002	6268	6077	10137	10348	11193	10411	10803	8999	8927	7932
<i>1998 Regional Surplus/Deficit</i>	6553	6112	8664	10618	8254	5845	6779	8138	8125	7409	8574	9770	9235	6465

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	1685	-420	4760	4366	4747	2535	2623	1321	3871	5716	4680	8854	6995	4711
<i>1994 Regional Surplus/Deficit</i>	3363	1993	5371	4762	5434	2658	2701	4064	4336	4121	5870	7467	6192	3030
<i>1995 Regional Surplus/Deficit</i>	2927	967	5455	4729	4410	2115	3231	7320	8112	9232	6386	9074	8833	5809
<i>1996 Regional Surplus/Deficit</i>	3932	2789	6367	6648	9179	8631	9138	9921	10147	10594	10332	9488	9048	6915
<i>1997 Regional Surplus/Deficit</i>	5695	4616	5737	6410	5691	5391	9145	9482	10303	10456	9839	8907	8816	7010
<i>1998 Regional Surplus/Deficit</i>	5796	5383	8093	9952	7663	5171	5823	7313	7307	7444	7678	9771	9205	5720

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	976	-1108	4082	3730	4171	1888	2117	842	3532	5865	5323	8119	5415	4256
<i>1994 Regional Surplus/Deficit</i>	2659	1298	4707	4128	4849	2008	2190	3590	3991	4240	6516	6643	4620	2495
<i>1995 Regional Surplus/Deficit</i>	2221	274	4791	4094	3834	1235	2726	7147	7439	9415	7028	8335	7204	5365
<i>1996 Regional Surplus/Deficit</i>	3230	2093	5707	6029	8558	7842	8593	9417	9833	10645	10927	8835	7355	6563
<i>1997 Regional Surplus/Deficit</i>	4999	3923	5068	5788	5110	4715	8611	8977	9986	10530	10420	8266	7018	6665
<i>1998 Regional Surplus/Deficit</i>	5099	4690	7430	9343	7044	4508	5352	6827	6956	7614	8322	9109	7511	5206

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	426	-1548	3682	3369	3730	1452	1522	356	3036	3694	3109	9464	6264	3868
<i>1994 Regional Surplus/Deficit</i>	2170	822	4343	3760	4411	1570	1595	3124	3504	2060	4306	8129	5524	2105
<i>1995 Regional Surplus/Deficit</i>	1720	-191	4426	3726	3392	804	2130	6638	6962	7242	4816	9742	8016	4952
<i>1996 Regional Surplus/Deficit</i>	2757	1615	5358	5715	8100	7292	7866	8780	9247	8443	8612	10098	8144	6073
<i>1997 Regional Surplus/Deficit</i>	4576	3469	4690	5465	4671	4254	7921	8350	9379	8305	8113	9572	7811	6157
<i>1998 Regional Surplus/Deficit</i>	4676	4253	7054	9000	6608	4048	4735	6322	6482	5453	6090	10344	8310	4806

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	-88	-2001	3320	3051	3309	989	815	-402	2383	3736	3254	7454	4504	3049
<i>1994 Regional Surplus/Deficit</i>	1690	371	4025	3426	4008	1112	886	2397	2856	2077	4442	6016	3688	1311
<i>1995 Regional Surplus/Deficit</i>	1238	-645	4108	3393	2953	318	1423	5901	6324	7259	4939	7702	6342	4170
<i>1996 Regional Surplus/Deficit</i>	2276	1160	5055	5472	7685	6951	7070	7997	8535	8471	8631	8105	6474	5296
<i>1997 Regional Surplus/Deficit</i>	4010	2980	4356	5209	4262	3823	7124	7567	8672	8321	8130	7509	6177	5406
<i>1998 Regional Surplus/Deficit</i>	4112	3742	6723	8684	6221	3616	4029	5586	5845	5497	6176	8465	6647	3986

**Table A-30: Regional Surplus/Deficit - By Water Year
 PNW Loads and Resource Study
 2017 - 2018 Operating Year
 [76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	-814	-2741	2648	2508	2714	350	400	-697	2045	4502	3967	7383	5051	2673
<i>1994 Regional Surplus/Deficit</i>	939	-410	3359	2899	3395	469	473	2072	2513	2868	5164	6048	4311	909
<i>1995 Regional Surplus/Deficit</i>	488	-1408	3442	2866	2376	-298	1008	5586	5971	8049	5674	7661	6803	3756
<i>1996 Regional Surplus/Deficit</i>	1523	369	4397	4854	7084	6190	6744	7727	8257	9250	9470	8017	6930	4877
<i>1997 Regional Surplus/Deficit</i>	3262	2194	3687	4604	3655	3153	6800	7298	8389	9112	8971	7491	6598	4962
<i>1998 Regional Surplus/Deficit</i>	3363	2966	6044	8139	5592	2946	3614	5269	5491	6261	6949	8263	7097	3610

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	-1257	-3168	2311	2075	2267	-126	11	-1158	1682	3061	3024	6095	3769	2192
<i>1994 Regional Surplus/Deficit</i>	520	-797	3015	2449	2966	-2.6	82	1641	2155	1402	4211	4657	2953	453
<i>1995 Regional Surplus/Deficit</i>	68	-1812	3098	2416	1911	-797	619	5145	5623	6585	4709	6342	5606	3313
<i>1996 Regional Surplus/Deficit</i>	1107	-7.7	4046	4496	6643	5837	6266	7241	7834	7797	8401	6746	5739	4439
<i>1997 Regional Surplus/Deficit</i>	2841	1812	3346	4233	3220	2708	6319	6811	7972	7646	7899	6150	5442	4549
<i>1998 Regional Surplus/Deficit</i>	2942	2574	5713	7708	5179	2502	3224	4830	5144	4823	5946	7105	5912	3128

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	-1706	-3610	1936	1807	1968	-470	-413	-1458	1322	3319	2299	6605	4225	1803
<i>1994 Regional Surplus/Deficit</i>	46	-1279	2646	2198	2648	-351	-340	1310	1790	1685	3496	5270	3485	40
<i>1995 Regional Surplus/Deficit</i>	-404	-2277	2729	2165	1629	-1117	195	4824	5248	6866	4006	6883	5976	2887
<i>1996 Regional Surplus/Deficit</i>	631	-501	3684	4153	6337	5371	5931	6966	7533	8067	7802	7240	6104	4008
<i>1997 Regional Surplus/Deficit</i>	2370	1325	2974	3903	2909	2333	5987	6536	7665	7929	7303	6714	5772	4092
<i>1998 Regional Surplus/Deficit</i>	2471	2097	5331	7438	4845	2126	2801	4507	4768	5077	5280	7486	6270	2741

**Table A-30: Regional Surplus/Deficit - By Water Year
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity 120 (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>1993 Regional Surplus/Deficit</i>	-2138	-4047	1589	1387	1537	-1549	-1814	-2937	-52	2484	2006	4792	1535	292
<i>1994 Regional Surplus/Deficit</i>	-360	-1676	2294	1762	2236	-1426	-1743	-138	421	825	3193	3354	719	-1446
<i>1995 Regional Surplus/Deficit</i>	-812	-2692	2377	1729	1182	-2220	-1205	3366	3889	6008	3690	5039	3373	1413
<i>1996 Regional Surplus/Deficit</i>	226	-887	3325	3809	5914	4413	4442	5462	6100	7220	7383	5443	3505	2539
<i>1997 Regional Surplus/Deficit</i>	1961	933	2625	3545	2491	1285	4495	5033	6237	7069	6881	4847	3208	2649
<i>1998 Regional Surplus/Deficit</i>	2062	1695	4992	7020	4450	1078	1400	3051	3410	4246	4928	5802	3678	1229

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Section 13
 Monthly A-Tables
 OY 2012 – 2021
 1-Hour Capacity in Megawatts ¹

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¹ Note: Tables A-11 through A-14 are obsolete and no longer available

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Table A-1
Total Retail Loads
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	139	139	133	153	179	202	196	178	185	154	154	145	147	152
2 Total Federal Entities	139	139	133	153	179	202	196	178	185	154	154	145	147	152
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	462	462	462	462	462	462	462	462	462	462	462	462	462	462
6 Total Direct Service Industry	462	462	462	462	462	462	462	462	462	462	462	462	462	462
-Generating Public Entities-														
7 Generating Public Entities	6302	6302	5866	6657	7746	8391	8284	7900	7021	6772	6772	6037	5920	6404
8 Total Generating Public Entities	6302	6302	5866	6657	7746	8391	8284	7900	7021	6772	6772	6037	5920	6404
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5192	5192	4934	5218	5750	6733	6502	6157	5644	5387	5387	5263	5267	5469
10 Total Non-Generating Public Entities	5192	5192	4934	5218	5750	6733	6502	6157	5644	5387	5387	5263	5267	5469
-Investor-Owned Entities-														
11 Investor-Owned Entities	15143	15143	13166	12870	14388	15785	16080	14985	13733	12727	12727	12141	14541	15768
12 Total Investor-Owned Entities	15143	15143	13166	12870	14388	15785	16080	14985	13733	12727	12727	12141	14541	15768
-Other Firm Loads-														
13 Other PNW Entities	435	435	416	416	421	431	440	427	421	409	409	410	427	444
14 Total Other Firm Loads	435	435	416	416	421	431	440	427	421	409	409	410	427	444
-Total Regional Firm Loads-														
15 Federal Entities	796	796	714	671	340	466	211	479	596	617	617	726	760	826
16 Direct Service Industry	462	462	462	462	462	462	462	462	462	462	462	462	462	462
17 Public Entities	11494	11494	10801	11875	13497	15124	14786	14057	12665	12159	12159	11300	11187	11873
18 Investor-Owned Entities	15143	15143	13166	12870	14388	15785	16080	14985	13733	12727	12727	12141	14541	15768
19 Other Entities	435	435	416	416	421	431	440	427	421	409	409	410	427	444
20 Total Regional Firm Loads	28330	28330	25558	26294	29107	32268	31978	30410	27877	26374	26374	25039	27377	29372
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	796	796	714	671	340	466	211	479	596	617	617	726	760	826
30 Direct Service Industry	462	462	462	462	462	462	462	462	462	462	462	462	462	462
31 Public Entities	11494	11494	10801	11875	13497	15124	14786	14057	12665	12159	12159	11300	11187	11873
32 Investor-Owned Entities	15143	15143	13180	12870	14388	15785	16084	15008	13787	12761	12761	12141	14541	15768
33 Other Entities	435	435	416	416	421	431	440	427	421	409	409	410	427	444
34 Total Regional Loads	28330	28330	25573	26294	29107	32268	31982	30433	27931	26408	26408	25039	27377	29372

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	144	144	137	159	187	210	199	184	188	156	156	146	149	153
2 Total Federal Entities	144	144	137	159	187	210	199	184	188	156	156	146	149	153
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	462	462	462	459	459	459	459	459	459	459	459	459	459	459
6 Total Direct Service Industry	462	462	462	459	459	459	459	459	459	459	459	459	459	459
-Generating Public Entities-														
7 Generating Public Entities	6365	6365	5917	6702	7790	8447	8331	7950	7067	6811	6811	6074	5958	6443
8 Total Generating Public Entities	6365	6365	5917	6702	7790	8447	8331	7950	7067	6811	6811	6074	5958	6443
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5301	5301	5037	5318	5852	6840	6600	6307	5744	5486	5486	5372	5374	5580
10 Total Non-Generating Public Entities	5301	5301	5037	5318	5852	6840	6600	6307	5744	5486	5486	5372	5374	5580
-Investor-Owned Entities-														
11 Investor-Owned Entities	15530	15530	13486	13212	14812	16253	16609	15477	14199	13196	13196	12594	15096	16386
12 Total Investor-Owned Entities	15530	15530	13486	13212	14812	16253	16609	15477	14199	13196	13196	12594	15096	16386
-Other Firm Loads-														
13 Other PNW Entities	437	437	418	417	422	433	441	429	423	410	410	412	429	446
14 Total Other Firm Loads	437	437	418	417	422	433	441	429	423	410	410	412	429	446
-Total Regional Firm Loads-														
15 Federal Entities	800	800	718	676	347	474	213	484	598	619	619	728	761	827
16 Direct Service Industry	462	462	462	459	459	459	459	459	459	459	459	459	459	459
17 Public Entities	11666	11666	10954	12020	13641	15287	14932	14257	12810	12297	12297	11446	11332	12023
18 Investor-Owned Entities	15530	15530	13486	13212	14812	16253	16609	15477	14199	13196	13196	12594	15096	16386
19 Other Entities	437	437	418	417	422	433	441	429	423	410	410	412	429	446
20 Total Regional Firm Loads	28895	28895	26038	26784	29682	32905	32654	31106	28489	26980	26980	25639	28077	30141
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	800	800	718	676	347	474	213	484	598	619	619	728	761	827
30 Direct Service Industry	462	462	462	459	459	459	459	459	459	459	459	459	459	459
31 Public Entities	11666	11666	10954	12020	13641	15287	14932	14257	12810	12297	12297	11446	11332	12023
32 Investor-Owned Entities	15530	15530	13500	13212	14812	16253	16612	15500	14253	13230	13230	12594	15096	16386
33 Other Entities	437	437	418	417	422	433	441	429	423	410	410	412	429	446
34 Total Regional Loads	28895	28895	26052	26784	29682	32905	32657	31129	28544	27014	27014	25639	28077	30141

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	145	145	138	161	189	212	211	194	200	164	164	156	158	162
2 Total Federal Entities	145	145	138	161	189	212	211	194	200	164	164	156	158	162
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	459	459	459	459	459	459	459	459	459	459	459	459	459	459
6 Total Direct Service Industry	459	459	459	459	459	459	459	459	459	459	459	459	459	459
-Generating Public Entities-														
7 Generating Public Entities	6404	6404	5954	6760	7850	8511	8395	8011	7126	6869	6869	6133	6019	6505
8 Total Generating Public Entities	6404	6404	5954	6760	7850	8511	8395	8011	7126	6869	6869	6133	6019	6505
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5405	5405	5141	5398	5929	6934	6680	6341	5817	5559	5559	5450	5451	5660
10 Total Non-Generating Public Entities	5405	5405	5141	5398	5929	6934	6680	6341	5817	5559	5559	5450	5451	5660
-Investor-Owned Entities-														
11 Investor-Owned Entities	16126	16126	13971	13700	15355	16896	17267	16069	14745	13639	13639	13029	15672	16945
12 Total Investor-Owned Entities	16126	16126	13971	13700	15355	16896	17267	16069	14745	13639	13639	13029	15672	16945
-Other Firm Loads-														
13 Other PNW Entities	440	440	420	419	424	435	443	430	424	412	412	413	431	449
14 Total Other Firm Loads	440	440	420	419	424	435	443	430	424	412	412	413	431	449
-Total Regional Firm Loads-														
15 Federal Entities	802	802	719	678	349	476	226	494	611	627	627	737	771	836
16 Direct Service Industry	459	459	459	459	459	459	459	459	459	459	459	459	459	459
17 Public Entities	11809	11809	11095	12158	13779	15446	15075	14352	12943	12428	12428	11582	11470	12165
18 Investor-Owned Entities	16126	16126	13971	13700	15355	16896	17267	16069	14745	13639	13639	13029	15672	16945
19 Other Entities	440	440	420	419	424	435	443	430	424	412	412	413	431	449
20 Total Regional Firm Loads	29636	29636	26665	27414	30366	33712	33470	31804	29182	27565	27565	26221	28803	30854
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	802	802	719	678	349	476	226	494	611	627	627	737	771	836
30 Direct Service Industry	459	459	459	459	459	459	459	459	459	459	459	459	459	459
31 Public Entities	11809	11809	11095	12158	13779	15446	15075	14352	12943	12428	12428	11582	11470	12165
32 Investor-Owned Entities	16126	16126	13985	13700	15355	16896	17270	16092	14799	13673	13673	13029	15672	16945
33 Other Entities	440	440	420	419	424	435	443	430	424	412	412	413	431	449
34 Total Regional Loads	29636	29636	26679	27414	30366	33712	33473	31827	29236	27598	27598	26221	28803	30854

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	155	155	147	172	204	228	224	206	213	172	172	166	168	172
2 Total Federal Entities	155	155	147	172	204	228	224	206	213	172	172	166	168	172
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	459	459	459	504	504	504	504	504	504	504	504	504	504	504
6 Total Direct Service Industry	459	459	459	504	504	504	504	504	504	504	504	504	504	504
-Generating Public Entities-														
7 Generating Public Entities	6468	6468	6017	6823	7915	8580	8465	8078	7189	6932	6932	6198	6086	6572
8 Total Generating Public Entities	6468	6468	6017	6823	7915	8580	8465	8078	7189	6932	6932	6198	6086	6572
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5489	5489	5215	5471	6004	7014	6760	6462	5892	5633	5633	5531	5534	5744
10 Total Non-Generating Public Entities	5489	5489	5215	5471	6004	7014	6760	6462	5892	5633	5633	5531	5534	5744
-Investor-Owned Entities-														
11 Investor-Owned Entities	16681	16681	14422	14127	15773	17358	17743	16494	15089	13951	13951	13341	16065	17379
12 Total Investor-Owned Entities	16681	16681	14422	14127	15773	17358	17743	16494	15089	13951	13951	13341	16065	17379
-Other Firm Loads-														
13 Other PNW Entities	442	442	422	420	425	436	445	432	426	413	413	415	434	451
14 Total Other Firm Loads	442	442	422	420	425	436	445	432	426	413	413	415	434	451
-Total Regional Firm Loads-														
15 Federal Entities	811	811	728	690	364	492	239	507	624	635	635	747	781	846
16 Direct Service Industry	459	459	459	504	504	504	504	504	504	504	504	504	504	504
17 Public Entities	11957	11957	11233	12294	13919	15594	15226	14540	13081	12565	12565	11728	11620	12316
18 Investor-Owned Entities	16681	16681	14422	14127	15773	17358	17743	16494	15089	13951	13951	13341	16065	17379
19 Other Entities	442	442	422	420	425	436	445	432	426	413	413	415	434	451
20 Total Regional Firm Loads	30350	30350	27264	28034	30985	34384	34156	32477	29724	28068	28068	26735	29404	31496
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	811	811	728	690	364	492	239	507	624	635	635	747	781	846
30 Direct Service Industry	459	459	459	504	504	504	504	504	504	504	504	504	504	504
31 Public Entities	11957	11957	11233	12294	13919	15594	15226	14540	13081	12565	12565	11728	11620	12316
32 Investor-Owned Entities	16681	16681	14436	14127	15773	17358	17746	16517	15143	13985	13985	13341	16065	17379
33 Other Entities	442	442	422	420	425	436	445	432	426	413	413	415	434	451
34 Total Regional Loads	30350	30350	27278	28034	30985	34384	34160	32500	29778	28102	28102	26735	29404	31496

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	164	164	156	184	220	245	231	209	219	176	176	171	173	177
2 Total Federal Entities	164	164	156	184	220	245	231	209	219	176	176	171	173	177
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	504	504	504	549	549	549	549	549	549	549	549	549	549	549
6 Total Direct Service Industry	504	504	504	549	549	549	549	549	549	549	549	549	549	549
-Generating Public Entities-														
7 Generating Public Entities	6534	6534	6081	6888	7983	8650	8537	8113	7255	6989	6989	6263	6141	6640
8 Total Generating Public Entities	6534	6534	6081	6888	7983	8650	8537	8113	7255	6989	6989	6263	6141	6640
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5571	5571	5291	5540	6077	7092	6835	6478	5958	5699	5699	5600	5604	5816
10 Total Non-Generating Public Entities	5571	5571	5291	5540	6077	7092	6835	6478	5958	5699	5699	5600	5604	5816
-Investor-Owned Entities-														
11 Investor-Owned Entities	17075	17075	14741	14412	16066	17677	18078	16802	15377	14211	14211	13585	16383	17707
12 Total Investor-Owned Entities	17075	17075	14741	14412	16066	17677	18078	16802	15377	14211	14211	13585	16383	17707
-Other Firm Loads-														
13 Other PNW Entities	444	444	424	421	427	438	446	433	427	414	414	416	436	454
14 Total Other Firm Loads	444	444	424	421	427	438	446	433	427	414	414	416	436	454
-Total Regional Firm Loads-														
15 Federal Entities	821	821	737	701	380	509	245	510	630	639	639	752	786	851
16 Direct Service Industry	504	504	504	549	549	549	549	549	549	549	549	549	549	549
17 Public Entities	12105	12105	11372	12427	14059	15742	15373	14591	13213	12687	12687	11862	11745	12456
18 Investor-Owned Entities	17075	17075	14741	14412	16066	17677	18078	16802	15377	14211	14211	13585	16383	17707
19 Other Entities	444	444	424	421	427	438	446	433	427	414	414	416	436	454
20 Total Regional Firm Loads	30948	30948	27778	28510	31482	34915	34691	32885	30196	28500	28500	27164	29899	32017
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	821	821	737	701	380	509	245	510	630	639	639	752	786	851
30 Direct Service Industry	504	504	504	549	549	549	549	549	549	549	549	549	549	549
31 Public Entities	12105	12105	11372	12427	14059	15742	15373	14591	13213	12687	12687	11862	11745	12456
32 Investor-Owned Entities	17075	17075	14755	14412	16066	17677	18082	16825	15431	14245	14245	13585	16383	17707
33 Other Entities	444	444	424	421	427	438	446	433	427	414	414	416	436	454
34 Total Regional Loads	30948	30948	27792	28510	31482	34915	34694	32908	30251	28534	28534	27164	29899	32017

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	169	169	161	190	227	253	262	241	251	195	195	194	198	200
2 Total Federal Entities	169	169	161	190	227	253	262	241	251	195	195	194	198	200
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
6 Total Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
-Generating Public Entities-														
7 Generating Public Entities	6602	6602	6136	6954	8041	8723	8609	8184	7322	7055	7055	6329	6208	6709
8 Total Generating Public Entities	6602	6602	6136	6954	8041	8723	8609	8184	7322	7055	7055	6329	6208	6709
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5641	5641	5356	5606	6144	7166	6910	6607	6027	5768	5768	5671	5679	5893
10 Total Non-Generating Public Entities	5641	5641	5356	5606	6144	7166	6910	6607	6027	5768	5768	5671	5679	5893
-Investor-Owned Entities-														
11 Investor-Owned Entities	17399	17399	14992	14643	16320	17956	18365	17052	15608	14424	14424	13797	16664	18020
12 Total Investor-Owned Entities	17399	17399	14992	14643	16320	17956	18365	17052	15608	14424	14424	13797	16664	18020
-Other Firm Loads-														
13 Other PNW Entities	447	447	426	423	428	440	448	435	429	416	416	418	438	456
14 Total Other Firm Loads	447	447	426	423	428	440	448	435	429	416	416	418	438	456
-Total Regional Firm Loads-														
15 Federal Entities	825	825	742	707	388	517	277	542	662	658	658	776	810	874
16 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
17 Public Entities	12244	12244	11492	12559	14185	15889	15519	14791	13348	12823	12823	12000	11887	12602
18 Investor-Owned Entities	17399	17399	14992	14643	16320	17956	18365	17052	15608	14424	14424	13797	16664	18020
19 Other Entities	447	447	426	423	428	440	448	435	429	416	416	418	438	456
20 Total Regional Firm Loads	31464	31464	28201	28881	31869	35350	35158	33369	30596	28870	28870	27540	30348	32501
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	825	825	742	707	388	517	277	542	662	658	658	776	810	874
30 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
31 Public Entities	12244	12244	11492	12559	14185	15889	15519	14791	13348	12823	12823	12000	11887	12602
32 Investor-Owned Entities	17399	17399	15006	14643	16320	17956	18368	17075	15662	14458	14458	13797	16664	18020
33 Other Entities	447	447	426	423	428	440	448	435	429	416	416	418	438	456
34 Total Regional Loads	31464	31464	28215	28881	31869	35350	35162	33392	30650	28904	28904	27540	30348	32501

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	192	192	183	218	265	294	266	242	255	198	198	197	200	203
2 Total Federal Entities	192	192	183	218	265	294	266	242	255	198	198	197	200	203
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
6 Total Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
-Generating Public Entities-														
7 Generating Public Entities	6671	6671	6203	7021	8109	8795	8682	8254	7390	7121	7121	6395	6276	6779
8 Total Generating Public Entities	6671	6671	6203	7021	8109	8795	8682	8254	7390	7121	7121	6395	6276	6779
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5718	5718	5427	5673	6212	7240	7004	6654	6119	5861	5861	5769	5779	5998
10 Total Non-Generating Public Entities	5718	5718	5427	5673	6212	7240	7004	6654	6119	5861	5861	5769	5779	5998
-Investor-Owned Entities-														
11 Investor-Owned Entities	17707	17707	15225	14854	16552	18207	18627	17293	15824	14627	14627	14000	16928	18313
12 Total Investor-Owned Entities	17707	17707	15225	14854	16552	18207	18627	17293	15824	14627	14627	14000	16928	18313
-Other Firm Loads-														
13 Other PNW Entities	448	448	427	424	430	441	450	436	430	417	417	419	440	458
14 Total Other Firm Loads	448	448	427	424	430	441	450	436	430	417	417	419	440	458
-Total Regional Firm Loads-														
15 Federal Entities	849	849	764	736	426	558	281	542	665	661	661	778	813	877
16 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
17 Public Entities	12388	12388	11630	12693	14322	16035	15686	14908	13508	12981	12981	12164	12056	12776
18 Investor-Owned Entities	17707	17707	15225	14854	16552	18207	18627	17293	15824	14627	14627	14000	16928	18313
19 Other Entities	448	448	427	424	430	441	450	436	430	417	417	419	440	458
20 Total Regional Firm Loads	31941	31941	28595	29256	32278	35790	35593	33728	30977	29235	29235	27911	30786	32973
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	849	849	764	736	426	558	281	542	665	661	661	778	813	877
30 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
31 Public Entities	12388	12388	11630	12693	14322	16035	15686	14908	13508	12981	12981	12164	12056	12776
32 Investor-Owned Entities	17707	17707	15239	14854	16552	18207	18630	17316	15878	14661	14661	14000	16928	18313
33 Other Entities	448	448	427	424	430	441	450	436	430	417	417	419	440	458
34 Total Regional Loads	31941	31941	28609	29256	32278	35790	35596	33751	31031	29269	29269	27911	30786	32973

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	195	195	185	222	269	298	268	246	257	199	199	199	202	204
2 Total Federal Entities	195	195	185	222	269	298	268	246	257	199	199	199	202	204
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
6 Total Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
-Generating Public Entities-														
7 Generating Public Entities	6740	6740	6269	7088	8180	8868	8755	8325	7457	7188	7188	6462	6345	6850
8 Total Generating Public Entities	6740	6740	6269	7088	8180	8868	8755	8325	7457	7188	7188	6462	6345	6850
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5823	5823	5529	5775	6318	7352	7100	6793	6205	5945	5945	5856	5868	6088
10 Total Non-Generating Public Entities	5823	5823	5529	5775	6318	7352	7100	6793	6205	5945	5945	5856	5868	6088
-Investor-Owned Entities-														
11 Investor-Owned Entities	17998	17998	15447	15062	16777	18453	18878	17528	16044	14830	14830	14198	17197	18609
12 Total Investor-Owned Entities	17998	17998	15447	15062	16777	18453	18878	17528	16044	14830	14830	14198	17197	18609
-Other Firm Loads-														
13 Other PNW Entities	450	450	429	426	431	443	451	438	432	418	418	420	441	460
14 Total Other Firm Loads	450	450	429	426	431	443	451	438	432	418	418	420	441	460
-Total Regional Firm Loads-														
15 Federal Entities	851	851	767	739	430	562	283	547	668	662	662	780	815	878
16 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
17 Public Entities	12563	12563	11798	12863	14498	16221	15855	15118	13662	13133	13133	12318	12213	12938
18 Investor-Owned Entities	17998	17998	15447	15062	16777	18453	18878	17528	16044	14830	14830	14198	17197	18609
19 Other Entities	450	450	429	426	431	443	451	438	432	418	418	420	441	460
20 Total Regional Firm Loads	32412	32412	28989	29639	32684	36228	36016	34180	31354	29592	29592	28265	31214	33434
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	851	851	767	739	430	562	283	547	668	662	662	780	815	878
30 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
31 Public Entities	12563	12563	11798	12863	14498	16221	15855	15118	13662	13133	13133	12318	12213	12938
32 Investor-Owned Entities	17998	17998	15461	15062	16777	18453	18882	17551	16098	14864	14864	14198	17197	18609
33 Other Entities	450	450	429	426	431	443	451	438	432	418	418	420	441	460
34 Total Regional Loads	32412	32412	29004	29639	32684	36228	36020	34203	31409	29626	29626	28265	31214	33434

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	197	197	187	223	272	301	270	245	258	200	200	200	203	205
2 Total Federal Entities	197	197	187	223	272	301	270	245	258	200	200	200	203	205
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
6 Total Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
-Generating Public Entities-														
7 Generating Public Entities	6810	6810	6336	7156	8249	8942	8829	8393	7526	7255	7255	6530	6413	6920
8 Total Generating Public Entities	6810	6810	6336	7156	8249	8942	8829	8393	7526	7255	7255	6530	6413	6920
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5910	5910	5612	5854	6397	7437	7186	6816	6282	6020	6020	5934	5946	6169
10 Total Non-Generating Public Entities	5910	5910	5612	5854	6397	7437	7186	6816	6282	6020	6020	5934	5946	6169
-Investor-Owned Entities-														
11 Investor-Owned Entities	18291	18291	15667	15269	17002	18708	19134	17770	16266	15035	15035	14400	17469	18910
12 Total Investor-Owned Entities	18291	18291	15667	15269	17002	18708	19134	17770	16266	15035	15035	14400	17469	18910
-Other Firm Loads-														
13 Other PNW Entities	451	451	430	427	433	444	453	439	433	420	420	421	443	461
14 Total Other Firm Loads	451	451	430	427	433	444	453	439	433	420	420	421	443	461
-Total Regional Firm Loads-														
15 Federal Entities	853	853	768	741	432	565	285	545	669	664	664	781	816	879
16 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
17 Public Entities	12720	12720	11948	13010	14647	16379	16014	15210	13808	13276	13276	12464	12359	13089
18 Investor-Owned Entities	18291	18291	15667	15269	17002	18708	19134	17770	16266	15035	15035	14400	17469	18910
19 Other Entities	451	451	430	427	433	444	453	439	433	420	420	421	443	461
20 Total Regional Firm Loads	32864	32864	29362	29996	33063	36645	36435	34513	31725	29943	29943	28615	31636	33888
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	853	853	768	741	432	565	285	545	669	664	664	781	816	879
30 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
31 Public Entities	12720	12720	11948	13010	14647	16379	16014	15210	13808	13276	13276	12464	12359	13089
32 Investor-Owned Entities	18291	18291	15681	15269	17002	18708	19138	17793	16320	15069	15069	14400	17469	18910
33 Other Entities	451	451	430	427	433	444	453	439	433	420	420	421	443	461
34 Total Regional Loads	32864	32864	29376	29996	33063	36645	36439	34536	31779	29977	29977	28615	31636	33888

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Loads														
-Federal Entities-														
1 Federal Entities	198	198	188	225	273	302	272	250	260	202	202	201	205	207
2 Total Federal Entities	198	198	188	225	273	302	272	250	260	202	202	201	205	207
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
4 Total U.S. Bureau of Reclamation	656	656	581	517	161	264	15	301	411	463	463	581	613	674
-Direct Service Industry-														
5 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
6 Total Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
-Generating Public Entities-														
7 Generating Public Entities	6880	6880	6404	7224	8320	9017	8903	8467	7594	7324	7324	6598	6483	6991
8 Total Generating Public Entities	6880	6880	6404	7224	8320	9017	8903	8467	7594	7324	7324	6598	6483	6991
-Non-Generating Public Entities-														
9 Non-Generating Public Entities	5988	5988	5684	5924	6469	7509	7262	6948	6352	6087	6087	6005	6019	6244
10 Total Non-Generating Public Entities	5988	5988	5684	5924	6469	7509	7262	6948	6352	6087	6087	6005	6019	6244
-Investor-Owned Entities-														
11 Investor-Owned Entities	18587	18587	15894	15484	17232	18961	19395	18011	16492	15245	15245	14606	17744	19213
12 Total Investor-Owned Entities	18587	18587	15894	15484	17232	18961	19395	18011	16492	15245	15245	14606	17744	19213
-Other Firm Loads-														
13 Other PNW Entities	453	453	432	428	434	446	454	441	434	421	421	423	444	463
14 Total Other Firm Loads	453	453	432	428	434	446	454	441	434	421	421	423	444	463
-Total Regional Firm Loads-														
15 Federal Entities	854	854	769	742	434	566	287	550	671	665	665	783	817	881
16 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
17 Public Entities	12868	12868	12088	13148	14789	16526	16164	15415	13946	13411	13411	12602	12502	13235
18 Investor-Owned Entities	18587	18587	15894	15484	17232	18961	19395	18011	16492	15245	15245	14606	17744	19213
19 Other Entities	453	453	432	428	434	446	454	441	434	421	421	423	444	463
20 Total Regional Firm Loads	33311	33311	29732	30351	33437	37048	36849	34966	32092	30291	30291	28963	32057	34341
Non-Firm Loads														
-Investor-Owned Entities-														
21 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
22 Total Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	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
24 Direct Service Industry	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
26 Investor-Owned Entities	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	0	0	14	0	0	0	3.5	23	54	34	34	0	0	0
-Total Regional Loads-														
29 Federal Entities	854	854	769	742	434	566	287	550	671	665	665	783	817	881
30 Direct Service Industry	549	549	549	549	549	549	549	549	549	549	549	549	549	549
31 Public Entities	12868	12868	12088	13148	14789	16526	16164	15415	13946	13411	13411	12602	12502	13235
32 Investor-Owned Entities	18587	18587	15908	15484	17232	18961	19398	18034	16546	15279	15279	14606	17744	19213
33 Other Entities	453	453	432	428	434	446	454	441	434	421	421	423	444	463
34 Total Regional Loads	33311	33311	29746	30351	33437	37048	36852	34989	32146	30325	30325	28963	32057	34341

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Table A-2
Exports
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-2: Regional Exports
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 BPA to Other Entities	190	190	183	135	134	135	134	134	134	133	133	134	135	136
3 Total Exports to ECD	197	197	190	141	141	142	140	141	141	140	140	141	141	143
-Exports to Pacific Southwest-														
4 AVWP to SMUD PwrS	75	75	75	75	75	75	75	75	75	75	75	75	75	75
5 BPA to Other Entities	125	125	125	75	75	75	75	75	75	75	75	75	75	75
6 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	15
7 BPA to PASA C/N/X	15	15	15	0	0	0	0	0	0	0	0	0	0	0
8 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	15	15	0
10 BPA to RVSD C/N/X	0	0	0	60	15	15	15	15	15	15	15	0	0	60
11 BPA to RVSD C/N/X	60	60	60	0	0	0	0	0	0	0	0	0	0	0
12 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	60	60	0
14 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
25 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20
33 PGE to GLEN S/Pwr/X	30	30	30	0	0	0	0	0	0	0	0	0	0	0
34 PPL to REDD PwrS	50	50	50	50	0	0	0	0	0	0	0	50	50	50
35 PPL to SMUD PwrS	100	100	100	100	100	100	100	100	100	100	100	100	100	100
36 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
37 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
38 SDGE to SDGE PwrS	86	86	86	86	86	86	86	86	86	86	86	0	86	86
39 SMUD to SMUD PwrS	20	20	20	20	20	17	17	17	20	20	20	20	20	20
40 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
41 TID to TID PwrS	58	58	58	58	58	58	58	58	58	58	58	0	58	58
42 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 BPA NW-SW Intertie Losses	6	6	6	4.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.5	4.5	4.5
44 Total Exports To PSW	1067	1067	1067	639	506	504	504	504	506	506	514	482	986	986
-Exports to Inland Southwest-														
45 BPA to SPP PwrS	0	0	0	45	45	45	45	45	45	75	75	75	75	75
46 BPA to SPP PwrS	75	75	75	0	0	0	0	0	0	0	0	0	0	0
47 Total Exports To ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75
-Exports to Canada-														
48 BPA to BCHP CanEnt	0	0	0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
49 BPA to BCHP CanEnt	1314	1314	1314	0	0	0	0	0	0	0	0	0	0	0
50 Total Exports To Canada	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
-Exports to Other Entities-														
51 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Continued

**Table A-2: Regional Exports
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Total Exports-														
52 Federal Entities	1785	1785	1778	1633	1586	1587	1585	1586	1586	1614	1614	1678	1678	1680
53 Public Entities	193	193	193	162	133	130	130	130	133	133	133	75	193	193
54 Investor-Owned Entities	668	668	668	338	288	288	288	288	288	288	288	252	638	638
55 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
56 Total Exports.	2653	2653	2646	2140	2007	2005	2003	2004	2006	2035	2043	2012	2516	2518

**Table A-2: Regional Exports
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 BPA to Other Entities	136	136	135	135	134	135	8.7	9.2	9	7.7	7.7	9	9.6	11
3 Total Exports to ECD	143	143	141	141	141	142	16	16	16	14	14	16	16	18
-Exports to Pacific Southwest-														
4 AVWP to SMUD PwrS	75	75	75	75	75	75	75	75	75	75	75	75	75	75
5 BPA to Other Entities	75	75	75	75	75	75	0	0	0	0	0	0	0	0
6 BPA to PASA C/N/X	15	15	15	0	0	0	0	0	0	0	0	0	0	15
7 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	15	15	0
8 BPA to RVSD C/N/X	60	60	60	60	15	15	15	15	15	15	15	0	0	60
9 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	60	60	0
10 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
21 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 PGE to GLEN PwrS	20	20	20	0	0	0	0	0	0	0	0	0	0	0
29 PGE to GLEN S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 PPL to REDD PwrS	50	50	50	50	0	0	0	0	0	0	0	50	50	50
31 PPL to SMUD PwrS	100	100	100	100	100	100	100	100	100	100	100	100	100	100
32 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
33 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
34 SDGE to SDGE PwrS	86	86	86	86	86	86	86	86	86	86	86	0	86	86
35 SMUD to SMUD PwrS	20	20	20	20	20	17	17	17	20	20	20	20	20	20
36 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
37 TID to TID PwrS	58	58	58	58	58	58	58	58	58	58	58	0	58	58
38 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 BPA NW-SW Intertie Losses	4.5	4.5	4.5	4.1	2.7	2.7	0.5	0.5	0.5	0.5	0.5	2.3	2.3	2.3
40 Total Exports To PSW	986	986	986	619	486	484	406	406	409	409	417	385	889	889
-Exports to Inland Southwest-														
41 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
42 Total Exports To ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75
-Exports to Canada-														
43 BPA to BCHP CanEnt	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321
44 Total Exports To Canada	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321	1321
-Exports to Other Entities-														
45 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-														
46 Federal Entities	1687	1687	1685	1640	1593	1594	1390	1391	1390	1419	1419	1482	1483	1484
47 Public Entities	193	193	193	162	133	130	130	130	133	133	133	75	193	193
48 Investor-Owned Entities	638	638	638	318	268	268	268	268	268	268	268	232	618	618
49 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
50 Total Exports.	2525	2525	2523	2127	1994	1992	1788	1788	1791	1820	1827	1797	2301	2303

**Table A-2: Regional Exports
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 BPA to Other Entities	12	12	9.6	9.6	9.5	10	8.7	9.3	9.1	7.7	7.7	9.1	9.6	11
3 Total Exports to ECD	18	18	16	16	16	17	16	16	16	14	14	16	16	18
-Exports to Pacific Southwest-														
4 AVWP to SMUD PwrS	75	75	75	75	75	75	75	75	75	75	75	75	75	75
5 BPA to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA to PASA C/N/X	15	15	15	0	0	0	0	0	0	0	0	0	0	15
7 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	15	15	0
8 BPA to RVSD C/N/X	60	60	60	60	15	15	15	15	15	15	15	0	0	60
9 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	60	60	0
10 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
21 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 PPL to REDD PwrS	50	50	50	50	0	0	0	0	0	0	0	50	50	50
29 PPL to SMUD PwrS	100	100	100	100	100	100	100	100	100	100	100	100	100	100
30 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
31 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
32 SDGE to SDGE PwrS	86	86	86	86	86	86	86	86	86	86	86	0	86	86
33 SMUD to SMUD PwrS	20	20	20	20	20	17	17	17	20	20	20	20	20	20
34 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
35 TID to TID PwrS	58	58	58	58	58	58	58	58	58	58	58	0	58	58
36 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 BPA NW-SW Intertie Losses	2.3	2.3	2.3	1.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2.3	2.3	2.3
38 Total Exports To PSW	889	889	889	542	409	406	406	406	409	409	417	385	889	889
-Exports to Inland Southwest-														
39 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
40 Total Exports To ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75
-Exports to Canada-														
41 BPA to BCHP CanEnt	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336
42 Total Exports To Canada	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336	1336
-Exports to Other Entities-														
43 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-														
44 Federal Entities	1500	1500	1498	1452	1406	1407	1405	1406	1406	1434	1434	1497	1498	1499
45 Public Entities	193	193	193	162	133	130	130	130	133	133	133	75	193	193
46 Investor-Owned Entities	618	618	618	318	268	268	268	268	268	268	268	232	618	618
47 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
48 Total Exports.	2318	2318	2316	1940	1806	1805	1803	1804	1806	1835	1842	1812	2316	2318

**Table A-2: Regional Exports
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 BPA to Other Entities	12	12	9.6	9.6	9.5	10	8.7	9.3	9.1	7.7	7.7	9.1	9.7	11
3 Total Exports to ECD	18	18	16	16	16	17	16	16	16	14	14	16	16	18
-Exports to Pacific Southwest-														
4 AVWP to SMUD PwrS	75	75	75	75	75	75	0	0	0	0	0	0	0	0
5 BPA to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA to PASA C/N/X	15	15	15	0	0	0	0	0	0	0	0	0	0	0
7 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA to RVSD C/N/X	60	60	60	60	15	15	15	15	15	15	15	0	0	60
9 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	60	60	0
10 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
21 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 PPL to REDD PwrS	50	50	50	50	0	0	0	0	0	0	0	50	50	50
29 PPL to SMUD PwrS	100	100	100	100	100	100	0	0	0	0	0	0	0	0
30 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
31 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
32 SDGE to SDGE PwrS	86	86	86	86	86	86	86	86	86	86	86	0	86	86
33 SMUD to SMUD PwrS	20	20	20	20	20	17	17	17	20	20	20	20	20	20
34 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
35 TID to TID PwrS	58	58	58	58	58	58	58	58	58	58	58	0	58	58
36 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 BPA NW-SW Intertie Losses	2.3	2.3	2.3	1.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.8	1.8	1.8
38 Total Exports To PSW	889	889	889	542	409	406	231	231	234	234	242	194	698	698
-Exports to Inland Southwest-														
39 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
40 Total Exports To ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75
-Exports to Canada-														
41 BPA to BCHP CanEnt	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
42 Total Exports To Canada	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
-Exports to Other Entities-														
43 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-														
44 Federal Entities	1514	1514	1512	1466	1420	1421	1419	1420	1420	1448	1448	1496	1496	1498
45 Public Entities	193	193	193	162	133	130	130	130	133	133	133	75	193	193
46 Investor-Owned Entities	618	618	618	318	268	268	93	93	93	93	93	57	443	443
47 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
48 Total Exports.	2332	2332	2330	1954	1820	1819	1642	1643	1645	1674	1681	1635	2140	2141

**Table A-2: Regional Exports
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 BPA to Other Entities	12	12	9.7	9.6	9.5	10	8.7	9.3	9.1	7.7	7.7	9.1	9.7	0
3 Total Exports to ECD	18	18	16	16	16	17	16	16	16	14	14	16	16	6.8
-Exports to Pacific Southwest-														
4 BPA to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA to RVSD C/N/X	60	60	60	60	15	15	15	15	15	15	15	0	0	0
6 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
18 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PPL to REDD PwrS	50	50	50	50	0	0	0	0	0	0	0	0	0	0
26 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
27 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
28 SDGE to SDGE PwrS	86	86	86	86	86	86	86	86	86	86	86	0	86	86
29 SMUD to SMUD PwrS	20	20	20	20	20	17	17	17	20	20	20	20	20	20
30 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
31 TID to TID PwrS	58	58	58	58	58	58	58	58	58	58	58	0	58	58
32 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 BPA NW-SW Intertie Losses	1.8	1.8	1.8	1.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0
34 Total Exports To PSW	698	698	698	367	234	231	231	231	234	234	242	83	586	586
-Exports to Inland Southwest-														
35 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
36 Total Exports To ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75
-Exports to Canada-														
37 BPA to BCHP CanEnt	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
38 Total Exports To Canada	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
-Exports to Other Entities-														
39 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-														
40 Federal Entities	1498	1498	1496	1466	1420	1421	1419	1420	1420	1448	1448	1434	1435	1425
41 Public Entities	193	193	193	162	133	130	130	130	133	133	133	75	193	193
42 Investor-Owned Entities	443	443	443	143	93	93	93	93	93	93	93	6.8	393	393
43 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
44 Total Exports.	2142	2142	2140	1779	1645	1644	1642	1643	1645	1674	1681	1523	2028	2018

**Table A-2: Regional Exports
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 Total Exports to ECD	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
-Exports to Pacific Southwest-														
3 BPA to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	7.8	7.8	7.8	7.8	7.8
15 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
23 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
24 SDGE to SDGE PwrS	86	86	86	86	86	86	86	86	86	86	86	0	86	86
25 SMUD to SMUD PwrS	20	20	20	20	20	17	17	17	20	20	20	20	20	20
26 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
27 TID to TID PwrS	58	58	58	58	58	58	58	58	58	58	58	0	58	58
28 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 BPA NW-SW Intertie Losses	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Exports To PSW	586	586	586	255	219	216	216	216	219	219	226	83	586	586
-Exports to Inland Southwest-														
31 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
32 Total Exports To ISW	75	75	75	45	45	45	45	45	45	75	75	75	75	75
-Exports to Canada-														
33 BPA to BCHP CanEnt	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
34 Total Exports To Canada	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
-Exports to Other Entities-														
35 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-														
36 Federal Entities	1425	1425	1425	1395	1395	1395	1395	1395	1395	1425	1425	1425	1425	1425
37 Public Entities	193	193	193	162	133	130	130	130	133	133	133	75	193	193
38 Investor-Owned Entities	393	393	393	93	93	93	93	93	93	93	93	6.8	393	393
39 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
40 Total Exports.	2018	2018	2018	1657	1620	1618	1618	1618	1620	1650	1658	1514	2018	2018

**Table A-2: Regional Exports
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 Total Exports to ECD	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
-Exports to Pacific Southwest-														
3 BPA to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
15 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
23 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
24 SDGE to SDGE PwrS	86	86	86	86	86	86	86	86	86	86	86	0	86	86
25 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
26 TID to TID PwrS	58	58	58	58	58	58	58	58	58	58	58	0	58	58
27 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 BPA NW-SW Intertie Losses	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Total Exports To PSW	567	567	567	236	199	199	199	199	199	199	207	63	567	567
-Exports to Inland Southwest-														
30 BPA to SPP PwrS	75	75	75	45	45	45	45	45	0	0	0	0	0	0
31 Total Exports To ISW	75	75	75	45	45	45	45	45	0	0	0	0	0	0
-Exports to Canada-														
32 BPA to BCHP CanEnt	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
33 Total Exports To Canada	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
-Exports to Other Entities-														
34 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-														
35 Federal Entities	1425	1425	1425	1395	1395	1395	1395	1395	1350	1350	1350	1350	1350	1350
36 Public Entities	173	173	173	142	113	113	113	113	113	113	113	55	173	173
37 Investor-Owned Entities	393	393	393	93	93	93	93	93	93	93	93	6.8	393	393
38 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
39 Total Exports.	1998	1998	1998	1637	1601	1601	1601	1601	1556	1556	1563	1420	1923	1923

**Table A-2: Regional Exports
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 Total Exports to ECD	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
-Exports to Pacific Southwest-														
3 BPA to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	7.8	7.8	7.8	7.8	
15 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	
16 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	
17 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	
18 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	
19 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	
20 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	
21 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	
22 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
23 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
24 SDGE to SDGE PwrS	86	86	86	86	86	86	86	86	86	86	86	0	86	86
25 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
26 TID to TID PwrS	58	58	58	58	58	58	58	58	58	58	58	0	58	58
27 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 BPA NW-SW Intertie Losses	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Total Exports To PSW	567	567	567	236	199	199	199	199	199	199	207	63	567	567
-Exports to Inland Southwest-														
30 Total Exports To ISW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Exports to Canada-														
31 BPA to BCHP CanEnt	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
32 Total Exports To Canada	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
-Exports to Other Entities-														
33 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-														
34 Federal Entities	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
35 Public Entities	173	173	173	142	113	113	113	113	113	113	113	55	173	173
36 Investor-Owned Entities	393	393	393	93	93	93	93	93	93	93	93	6.8	393	393
37 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
38 Total Exports.	1923	1923	1923	1592	1556	1556	1556	1556	1556	1556	1563	1420	1923	1923

**Table A-2: Regional Exports
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 Total Exports to ECD	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
-Exports to Pacific Southwest-														
3 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
14 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
22 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
23 SDGE to SDGE PwrS	86	86	86	86	86	86	86	86	86	86	86	0	86	86
24 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
25 TID to TID PwrS	58	58	58	58	58	58	58	58	58	58	58	0	58	58
26 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 BPA NW-SW Intertie Losses	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Exports To PSW	567	567	567	236	199	199	199	199	199	199	207	63	567	567
-Exports to Inland Southwest-														
29 Total Exports To ISW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Exports to Canada-														
30 BPA to BCHP CanEnt	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
31 Total Exports To Canada	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
-Exports to Other Entities-														
32 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-														
33 Federal Entities	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
34 Public Entities	173	173	173	142	113	113	113	113	113	113	113	55	173	173
35 Investor-Owned Entities	393	393	393	93	93	93	93	93	93	93	93	6.8	393	393
36 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
37 Total Exports.	1923	1923	1923	1592	1556	1556	1556	1556	1556	1556	1563	1420	1923	1923

**Table A-2: Regional Exports
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Exports East of Continental Divide-														
1 AVWP to PPLM PwrS	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
2 Total Exports to ECD	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
-Exports to Pacific Southwest-														
3 BURB to BURB PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GLEN to GLEN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 LDWP to LDWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 MACQ to BURB PwrS	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
14 MID to MID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Other Entities to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PG&E to PG&E PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 PSE to PG&E S/Pwr/X	300	300	300	0	0	0	0	0	0	0	0	0	300	300
22 SCL to NCPA S/Pwr/X	60	60	60	29	0	0	0	0	0	0	0	0	60	60
23 SDGE to SDGE PwrS	86	86	86	86	86	86	0	0	0	0	0	0	0	0
24 SMUD to SMUD PwrS	55	55	55	55	55	55	55	55	55	55	55	55	55	55
25 TID to TID PwrS	58	58	58	58	58	58	0	0	0	0	0	0	0	0
26 TID to TID PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 BPA NW-SW Intertie Losses	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Exports To PSW	567	567	567	236	199	199	55	55	55	55	63	63	423	423
-Exports to Inland Southwest-														
29 Total Exports To ISW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Exports to Canada-														
30 BPA to BCHP CanEnt	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
31 Total Exports To Canada	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
-Exports to Other Entities-														
32 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-														
33 Federal Entities	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
34 Public Entities	173	173	173	142	113	113	55	55	55	55	55	55	115	115
35 Investor-Owned Entities	393	393	393	93	93	93	6.8	6.8	6.8	6.8	6.8	6.8	307	307
36 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
37 Total Exports.	1923	1923	1923	1592	1556	1556	1412	1412	1412	1412	1420	1420	1780	1780

Table A-3
Regulated Hydro Projects
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	0	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1049	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	57	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	44	39	0	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	0	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6243	6134	6249	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	416	414	410	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	180	180	180	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	597	596	594	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	59	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	803	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	147	146	147	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	11	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	378	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	507	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	168	175	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1301	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	440	425	230	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	261	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	64	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2074	2074	2074	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	129	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30824	30729	30638	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-3737	-6291	-7224	-8160	-5504	-5522	-4991	-5428	-5555	-6280	-4674	-3144	-5663	-4072
Total Idle Capacity	-3737	-6291	-7224	-8160	-5504	-5522	-4991	-5428	-5555	-6280	-4674	-3144	-5663	-4072
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	13307	11245	10466	9594	12547	13190	13889	12495	11706	10122	11997	13894	12576	13594
76 Public Entities	3906	3910	3610	3935	4393	4460	4499	4348	4001	4051	3963	4152	4593	4499
77 Investor-Owned Entities	4627	4598	4894	4649	4348	4777	4670	4412	4098	4458	4293	4488	4591	4127
78 Other Entities	652	652	656	662	791	791	797	796	780	774	774	769	781	908
79 Total Regulated Hydro w/Enc	22493	20405	19627	18841	22078	23218	23855	22051	20584	19406	21026	23303	22541	23127

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	35	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1048	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	58	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	38	32	24	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	88	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6279	6170	6256	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	393	391	388	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	179	179	179	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	598	597	595	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	57	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	802	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	148	146	131	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	14	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	369	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	492	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	169	174	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	430	414	226	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2030	2030	2030	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	133	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30776	30665	30651	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-4416	-6564	-7499	-8047	-4750	-5265	-4736	-5494	-5623	-6348	-4620	-2926	-5541	-3795
Total Idle Capacity	-4416	-6564	-7499	-8047	-4750	-5265	-4736	-5494	-5623	-6348	-4620	-2926	-5541	-3795
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	12596	10943	10132	9707	13300	13447	14144	12428	11637	10054	12051	14111	12698	13872
76 Public Entities	4276	4278	4115	4320	4410	4477	4516	4365	4018	4068	3980	4169	4611	4502
77 Investor-Owned Entities	3980	3936	4200	4003	4194	4623	4516	4258	3943	4303	4138	4334	4437	4123
78 Other Entities	913	913	918	924	928	928	934	934	918	913	912	906	918	908
79 Total Regulated Hydro w/Enc	21765	20069	19365	18954	22832	23475	24109	21985	20516	19338	21080	23520	22664	23405

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	35	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1048	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	58	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	38	32	24	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	88	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6279	6170	6256	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	393	391	388	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	179	179	179	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	598	597	595	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	57	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	802	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	148	146	131	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	14	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	369	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	492	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	169	174	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	430	414	226	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2030	2030	2030	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	133	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30776	30665	30651	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-4244	-6501	-7427	-7407	-5355	-5195	-4844	-5497	-5598	-5960	-4679	-2976	-5329	-4074
Total Idle Capacity	-4244	-6501	-7427	-7407	-5355	-5195	-4844	-5497	-5598	-5960	-4679	-2976	-5329	-4074
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	12768	11006	10204	10347	12696	13517	14036	12425	11662	10442	11991	14062	12910	13593
76 Public Entities	4280	4282	4119	4324	4410	4477	4516	4365	4018	4068	3980	4169	4611	4502
77 Investor-Owned Entities	3977	3932	4196	4000	4194	4623	4516	4258	3943	4303	4138	4334	4437	4123
78 Other Entities	913	913	918	924	928	928	934	934	918	913	912	906	918	908
79 Total Regulated Hydro w/Enc.21937	20132	19437	19594	22227	23545	24002	21981	20540	19725	21021	23471	22875	23126	

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	35	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1048	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	58	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	38	32	24	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	88	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6279	6170	6256	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	393	391	388	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	179	179	179	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	598	597	595	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	57	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	802	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	148	146	131	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	14	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	369	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	492	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	169	174	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	430	414	226	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2030	2030	2030	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	133	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30776	30665	30651	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-4110	-6416	-7290	-7784	-5236	-4874	-4792	-5507	-5465	-6028	-8633	-2615	-5730	-3579
Total Idle Capacity	-4110	-6416	-7290	-7784	-5236	-4874	-4792	-5507	-5465	-6028	-8633	-2615	-5730	-3579
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	12902	11091	10341	9970	12815	13838	14088	12415	11795	10374	8038	14423	12509	14087
76 Public Entities	4280	4282	4119	4324	4410	4477	4516	4365	4018	4068	3980	4169	4611	4502
77 Investor-Owned Entities	3977	3932	4196	4000	4194	4623	4516	4258	3943	4303	4138	4334	4437	4123
78 Other Entities	913	913	918	924	928	928	934	934	918	913	912	906	918	908
79 Total Regulated Hydro w/Enc	22071	20218	19573	19217	22346	23866	24054	21972	20674	19658	17067	23832	22475	23620

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	35	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1048	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	58	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	38	32	24	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	88	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6279	6170	6256	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	393	391	388	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	179	179	179	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	598	597	595	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	57	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	802	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	148	146	131	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	14	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	369	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	492	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	169	174	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	430	414	226	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2030	2030	2030	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	133	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30776	30665	30651	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-4012	-6377	-7230	-7822	-5234	-4808	-4615	-5419	-5547	-5905	-4773	-2768	-5337	-3904
Total Idle Capacity	-4012	-6377	-7230	-7822	-5234	-4808	-4615	-5419	-5547	-5905	-4773	-2768	-5337	-3904
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	13000	11130	10401	9932	12817	13904	14264	12503	11713	10496	11897	14269	12902	13762
76 Public Entities	4280	4282	4119	4324	4410	4477	4516	4365	4018	4068	3980	4169	4611	4502
77 Investor-Owned Entities	3977	3932	4196	4000	4194	4623	4516	4258	3943	4303	4138	4334	4437	4123
78 Other Entities	913	913	918	924	928	928	934	934	918	913	912	906	918	908
79 Total Regulated Hydro w/Enc	22169	20257	19633	19179	22348	23932	24230	22060	20592	19780	20927	23678	22868	23295

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	35	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1048	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	58	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	38	32	24	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	88	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6279	6170	6256	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	393	391	388	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	179	179	179	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	598	597	595	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	57	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	802	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	148	146	131	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	14	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	369	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	492	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	169	174	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	430	414	226	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2030	2030	2030	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	133	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30776	30665	30651	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-4225	-6356	-7005	-7886	-5231	-5049	-4539	-5206	-4904	-5702	-4643	-2678	-5508	-3576
Total Idle Capacity	-4225	-6356	-7005	-7886	-5231	-5049	-4539	-5206	-4904	-5702	-4643	-2678	-5508	-3576
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	12787	11151	10627	9868	12820	13663	14341	12716	12356	10700	12027	14359	12731	14091
76 Public Entities	4280	4282	4119	4324	4410	4477	4516	4365	4018	4068	3980	4169	4611	4502
77 Investor-Owned Entities	3977	3932	4196	4000	4194	4623	4516	4258	3943	4303	4138	4334	4437	4123
78 Other Entities	913	913	918	924	928	928	934	934	918	913	912	906	918	908
79 Total Regulated Hydro w/Enc.	21956	20278	19859	19115	22351	23691	24307	22273	21235	19983	21057	23768	22696	23624

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	35	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1048	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	58	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	38	32	24	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	88	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6279	6170	6256	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	393	391	388	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	179	179	179	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	598	597	595	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	57	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	802	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	148	146	131	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	14	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	369	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	492	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	169	174	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	430	414	226	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2030	2030	2030	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	133	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30776	30665	30651	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
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1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-4110	-6305	-7064	-7705	-5116	-4690	-4498	-5302	-5429	-5769	-4637	-2671	-5292	-3860
Total Idle Capacity	-4110	-6305	-7064	-7705	-5116	-4690	-4498	-5302	-5429	-5769	-4637	-2671	-5292	-3860
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	12902	11202	10568	10049	12935	14022	14382	12621	11831	10633	12034	14366	12947	13807
76 Public Entities	4280	4282	4119	4324	4410	4477	4516	4365	4018	4068	3980	4169	4611	4502
77 Investor-Owned Entities	3977	3932	4196	4000	4194	4623	4516	4258	3943	4303	4138	4334	4437	4123
78 Other Entities	913	913	918	924	928	928	934	934	918	913	912	906	918	908
79 Total Regulated Hydro w/Enc.22071	20328	19800	19296	22466	24050	24348	22177	20710	19917	21064	23775	22912	23340	

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	35	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1048	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	58	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	38	32	24	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	88	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6279	6170	6256	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	393	391	388	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	179	179	179	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	598	597	595	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	57	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	802	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	148	146	131	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	14	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	369	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	492	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	169	174	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	430	414	226	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2030	2030	2030	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	133	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30776	30665	30651	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
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Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-4181	-6312	-6960	-7842	-5186	-5004	-4495	-5162	-4860	-5639	-4580	-2654	-5502	-3570
Total Idle Capacity	-4181	-6312	-6960	-7842	-5186	-5004	-4495	-5162	-4860	-5639	-4580	-2654	-5502	-3570
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	12831	11195	10671	9912	12864	13708	14385	12760	12400	10763	12090	14384	12737	14097
76 Public Entities	4280	4282	4616	4821	4907	4974	5014	4863	4516	4565	4478	4667	5108	5000
77 Investor-Owned Entities	3977	3932	3699	3502	3697	4126	4018	3760	3446	3806	3641	3837	3940	3626
78 Other Entities	913	913	918	924	928	928	934	934	918	913	912	906	918	908
79 Total Regulated Hydro w/Enc	22000	20322	19903	19159	22396	23736	24350	22316	21279	20047	21120	23793	22702	23630

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	35	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1048	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	58	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	38	32	24	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	88	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6279	6170	6256	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	393	391	388	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	179	179	179	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	598	597	595	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	57	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	802	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	148	146	131	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	14	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	369	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	492	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	169	174	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	430	414	226	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2030	2030	2030	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	133	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30776	30665	30651	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-4104	-6299	-7058	-7699	-5110	-4684	-4491	-5296	-5424	-5763	-4631	-2664	-5286	-3854
Total Idle Capacity	-4104	-6299	-7058	-7699	-5110	-4684	-4491	-5296	-5424	-5763	-4631	-2664	-5286	-3854
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	12908	11208	10573	10055	12941	14028	14388	12627	11837	10639	12040	14373	12953	13813
76 Public Entities	4777	4779	4616	4821	4907	4974	5014	4863	4516	4565	4478	4667	5108	5000
77 Investor-Owned Entities	3479	3435	3699	3502	3697	4126	4018	3760	3446	3806	3641	3837	3940	3626
78 Other Entities	913	913	918	924	928	928	934	934	918	913	912	906	918	908
79 Total Regulated Hydro w/Enc.22077	20334	19806	19302	22472	24056	24354	22183	20715	19923	21069	23782	22918	23346	

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Regulated Hydro Projects-														
1 Albeni Falls	50	50	50	43	32	28	28	29	29	25	32	40	48	50
2 Alder	51	43	35	0	0	0	45	33	28	30	0	43	48	52
3 Bonneville	1042	1042	1048	1049	1048	1051	1054	1053	1043	1042	1042	1042	1042	1042
4 Boundary	845	845	845	845	845	845	845	845	845	845	845	1003	1021	845
5 Box Canyon	83	83	83	80	82	81	83	83	83	79	82	77	71	80
6 Brownlee	675	675	675	675	675	675	675	675	675	675	675	675	675	675
7 Cabinet Gorge	238	238	238	238	238	238	238	238	238	238	238	238	239	238
8 Chelan	58	58	58	57	56	56	56	55	16	55	16	56	57	58
9 Chief Joseph	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
10 Cushman 1	38	32	24	18	17	19	21	18	17	21	24	23	24	29
11 Cushman 2	88	88	88	1	3.3	4.9	56	88	3.6	2	2	88	1	0.3
12 Diablo	172	172	172	172	172	172	172	172	172	172	172	172	172	172
13 Dworshak	448	446	446	445	445	445	445	443	444	445	446	448	450	449
14 Faraday	43	43	43	43	43	43	43	43	43	43	43	43	43	43
15 Gorge	182	182	182	182	182	182	182	182	182	182	182	182	182	182
16 Grand Coulee	6279	6170	6256	6362	6627	6447	6162	5691	5082	4408	4533	4831	5800	6358
17 Hells Canyon	285	285	366	372	246	394	305	334	342	450	450	450	330	333
18 Hungry Horse	393	391	388	384	378	372	366	359	352	348	278	290	387	393
19 Ice Harbor	693	693	693	693	693	693	693	693	693	693	693	693	693	693
20 John Day	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
21 Kerr	179	179	179	178	177	176	173	171	172	170	166	172	178	180
22 La Grande	64	64	64	64	64	64	64	64	64	64	64	64	64	64
23 Libby	598	597	595	593	589	582	579	577	575	574	574	572	578	588
24 Little Falls	35	35	35	35	35	35	35	35	35	35	33	32	35	35
25 Little Goose	884	884	922	928	928	928	928	928	928	922	884	884	884	884
26 Long Lake	72	72	72	72	72	72	69	64	68	72	72	72	72	72
27 Lower Baker	71	66	57	59	60	60	57	54	56	58	57	55	65	71
28 Lower Granite	912	912	912	912	918	930	930	930	930	918	912	912	912	912
29 Lower Monumental	802	907	915	922	922	922	922	922	922	915	907	907	907	907
30 Mayfield	125	125	125	125	125	125	125	129	125	125	125	84	125	125
31 McNary	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
32 Merwin	148	146	131	76	113	128	128	113	113	124	124	131	148	148
33 Monroe Street	6.6	5.3	14	2.9	3	11	4.6	5.9	12	14	14	14	14	11
34 Mossyrock	378	370	369	318	282	271	262	195	157	196	236	0	378	378
35 Nine Mile	22	22	22	22	22	22	22	22	22	22	21	20	21	22
36 North Fork	54	54	54	54	54	54	54	54	54	54	54	54	54	54
37 Noxon	543	492	533	533	518	552	543	533	467	545	535	533	543	552
38 Oak Grove	44	44	44	44	44	44	44	44	44	44	44	44	44	44
39 Oxbow	220	220	220	220	220	220	220	220	220	220	220	220	220	220
40 Pelton	108	108	108	108	108	108	108	108	108	108	108	108	108	108
41 Pelton Rereg. Dam	11	10	10	11	11	12	11	11	12	15	15	12	12	10
42 Post Falls	16	14	16	1.8	1.8	16	16	16	16	15	14	13	15	16
43 Priest Rapids	754	754	754	754	754	754	754	754	754	754	754	754	754	754
44 River Mill	23	23	23	23	23	23	23	23	23	23	23	23	23	23
45 Rock Island PH#1	169	174	175	175	171	173	171	174	175	176	176	170	166	166
46 Rock Island PH#2	431	428	429	429	429	428	430	428	429	430	430	431	434	433
47 Rocky Reach	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
48 Ross	430	414	226	317	403	390	354	280	218	218	218	278	371	427
49 Round Butte	300	300	300	300	300	300	300	300	300	300	300	300	300	300
50 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
51 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
52 The Dalles	2030	2030	2030	2030	2030	2034	2034	2035	2032	2030	2030	2030	2030	2030
53 Thompson Falls	85	85	85	85	85	85	85	85	85	85	85	83	79	85
54 Upper Baker	99	96	96	44	96	94	89	80	0	92	90	92	100	102
55 Upper Falls	9.8	9.8	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.4	8.8	8.7	9.3	9.8
56 Wanapum	749	749	749	749	749	749	749	749	749	749	749	749	749	749
57 Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
58 Yale	132	130	133	75	130	116	102	94	94	106	106	0	133	133
Total Regulated Hydro Projects	30776	30665	30651	30209	30517	30777	30407	29764	28765	28437	28183	28806	30406	30919

-Idle Capacity-

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Idle Capacity (1 Hr.)	-4175	-6306	-6955	-7836	-5180	-4998	-4491	-5158	-4856	-5635	-4576	-2648	-5498	-3566
Total Idle Capacity	-4175	-6306	-6955	-7836	-5180	-4998	-4491	-5158	-4856	-5635	-4576	-2648	-5498	-3566
-Hydro Maintenance-														
60 AVWP Hydro Maintenance	-168	-157	-141	-95	-36	-22	-9.4	-174	-149	-77	-50	-19	-13	-70
61 CHPD Hydro Maintenance	-14	-14	-10	-10	-4	-4	0	0	-12	-15	-16	-18	-12	-15
62 CLKM Hydro Maintenance	-21	-21	-16	-10	-6	-6	0	0	-16	-21	-22	-28	-16	-26
63 COPD Hydro Maintenance	-37	-21	-19	-8.6	-6.6	-5.2	-4.8	-7.4	-11	-13	-10	-11	-12	-29
64 DOPD Hydro Maintenance	-19	-22	-23	-2.8	-0.8	-4.4	-3.6	-3.6	-17	-16	-7.2	-3.4	-2.2	-3.2
65 EWEB Hydro Maintenance	-17	-9.6	-16	-7.2	-6.4	-2	-2.2	-3.6	-8.4	-8.8	-11	-9	-5.8	-12
66 Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
67 GCPD Hydro Maintenance	-67	-67	-65	-62	-44	-38	-39	-55	-79	-86	-86	-60	-56	-49
68 IPC Hydro Maintenance	-81	-81	-66	-45	-15	0	0	-39	-96	-40	-40	-18	-9.6	-86
69 PGE Hydro Maintenance	-179	-184	-138	-77	-30	-26	-23	-32	-69	-81	-89	-115	-119	-151
70 PPL Hydro Maintenance	-175	-157	-80	-53	-29	-23	-23	-31	-53	-77	-88	-92	-103	-247
71 PSE Hydro Maintenance	-130	-134	-95	-63	-32	-34	-24	-25	-116	-151	-144	-92	-58	-100
72 SCL Hydro Maintenance	-197	-166	-218	-18	-16	-2.8	-22	-25	-62	-65	-73	-75	-107	-38
73 SHPD Hydro Maintenance	-50	-16	-5.3	0	0	0	0	0	0	-17	-17	-17	0	-16
74 TPU Hydro Maintenance	-177	-222	-125	-5.6	-2.8	-2.8	-2.8	-5.6	-21	-21	-26	-46	-54	-90
Total Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
-Total Regulated Hydro w/Enc.-														
75 Federal System	12837	11201	10676	9918	12870	13714	14389	12764	12404	10767	12094	14390	12741	14101
76 Public Entities	4777	4779	4616	4821	4907	4974	5014	4863	4516	4565	4478	4667	5108	5000
77 Investor-Owned Entities	3479	3435	3699	3502	3697	4126	4018	3760	3446	3806	3641	3837	3940	3626
78 Other Entities	913	913	918	924	928	928	934	934	918	913	912	906	918	908
79 Total Regulated Hydro w/Enc	22006	20328	19909	19165	22402	23742	24355	22321	21283	20051	21124	23799	22706	23634

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Table A-4
Independent Hydro Projects
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	19	19	19	19	19	19	19	19	19	19	19	19	19	19

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 Walterville	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wyochee	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2040	2100	1754
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	714	714	782	770	761	770	756	759	767	819	824	850	853	792
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2040	2100	1754

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	19	19	19	19	19	19	19	19	19	19	19	19	19	19

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 Walterville	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wyochee	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2040	2100	1754
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	714	714	782	770	761	770	756	759	767	819	824	850	853	792
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2040	2100	1754

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	19	19	19	19	19	19	19	19	19	19	19	73	73	73

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 Walterville	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wyochee	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2094	2154	1808
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	714	714	782	770	761	770	756	759	767	819	824	904	907	846
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	581	1589	1633	1670	1619	1464	1377	1446	1635	1738	1862	2094	2154	1808

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	73	73	73	73	73	73	73	73	73	73	73	73	73	73

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 Walterville	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wyochee	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	768	768	836	824	815	824	810	813	821	873	878	904	907	846
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	73	73	73	73	73	73	73	73	73	73	73	73	73	73

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 Walterville	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wyochee	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	768	768	836	824	815	824	810	813	821	873	878	904	907	846
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	73	73	73	73	73	73	73	73	73	73	73	73	73	73

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 Walterville	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wyochee	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	768	768	836	824	815	824	810	813	821	873	878	904	907	846
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	73	73	73	73	73	73	73	73	73	73	73	73	73	73

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 Walterville	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wyochee	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	768	768	836	824	815	824	810	813	821	873	878	904	907	846
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	73	73	73	73	73	73	73	73	73	73	73	73	73	73

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 WALTERVILLE	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 WYNOCHEE	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	768	768	836	824	815	824	810	813	821	873	878	904	907	846
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	73	73	73	73	73	73	73	73	73	73	73	73	73	73

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 Walterville	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wyochee	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	768	768	836	824	815	824	810	813	821	873	878	904	907	846
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Independent Hydro Projects-														
1 American Falls	0	0	9.2	15	0	0	0	0	6.7	28	33	71	75	82
2 Anderson Ranch	34	34	28	38	38	38	36	35	34	34	34	37	38	36
3 Arrowrock Hydro	13	13	11	14	14	14	14	13	13	13	13	14	14	13
4 Ashton	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
5 Bend Power Dam	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
6 Big Cliff	8	8	12	12	17	8	7.1	9	10	12	17	22	22	10
7 Big Fork	4.5	4.5	3.3	4.4	4.3	4.3	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.6
8 Black Canyon	7.5	7.5	4	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5
9 Bliss	75	75	75	75	75	75	75	75	75	75	75	75	75	75
10 Boise River Diversion	3	3	3	3	0	0	0	0	0	0	3	3	3	3
11 Calispell Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0
12 Carmen-Smith	41	39	39	33	30	37	33	33	52	62	63	64	60	51
13 Cascade	11	11	10	9.0	8.9	8.8	8.7	8.6	8.5	8.0	8.0	7.7	7.6	9.0
14 Cedar Falls & Newhalem	0	0	30	30	30	30	30	30	30	30	30	30	30	0
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6
16 CJ Strike	85	85	85	85	85	85	85	85	85	85	85	85	85	85
17 Clear Lake	3.1	3.0	3.3	3.5	3.4	2.9	3.2	2.9	3	3.3	3.1	3.1	3.0	3.4
18 Cougar	22	20	26	26	25	6.4	4.7	7	8	23	30	30	30	12
19 Cowlitz Falls	12	10	11	16	23	23	13	17	33	48	50	64	66	29
20 Detroit	100	100	100	100	100	100	100	100	100	100	100	106	100	100
21 Dexter	11	11	7	13	18	6	3.8	7	8	10	17	18	18	7
22 Eagle Point	0	0	0	0	0.4	0.7	0.7	0.9	0.6	0.7	0.7	0.5	0	0
23 East Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Felt	4.4	4.4	4.6	4.3	4.4	3.9	3.3	3.5	4.2	4.2	4.2	5.9	7.3	5.6
25 Foster	7	7	12	10	8	10	4.6	10	22	23	23	23	24	7
26 Gem State Hydro	20	20	16	13	14	15	15	15	22	22	22	21	21	22
27 Grace	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28 Green Peter	76	76	86	79	61	32	20	5	90	92	92	88	86	55
29 Green Springs - USBR	16	16	15	17	18	18	19	19	18	18	18	18	17	16
30 Hellroaring (Big) Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0
31 Hills Creek	10	32	23	25	30	6	6.1	7	8	23	36	36	36	16
32 Hood Street	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
33 Idaho Falls - City Plant	4.9	4.9	3.3	2.1	3.1	4.0	3.1	3.4	4.2	5.3	5.3	6.8	7.1	6.7
34 Idaho Falls - Lower Plant	5.1	5.1	3.4	2.2	3.3	4.2	3.2	3.5	4.4	5.5	5.5	7.5	7.7	7
35 Idaho Falls - Upper Plant	5.2	5.2	3.6	2.4	3.4	4.3	3.4	3.7	4.6	5.6	5.6	7.3	7.4	7.0
36 Island Park	4.5	4.5	4.3	4.1	4.1	3.3	3.3	4.4	4.3	4.6	4.6	4.6	4.6	4.6
37 Jackson	103	103	103	103	103	103	103	103	103	103	103	103	103	103
38 John C Boyle	0	0	82	82	82	82	82	82	82	82	82	82	82	0
39 Lake Creek	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
40 Last Chance	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
41 Leaburg	5.3	4.2	3	0	0	7.1	4	12	12	12	12	12	13	10
42 Lookout Point	89	98	73	124	131	24	17	45	66	61	143	150	151	81
43 Lost Creek	56	56	55	52	51	50	19	50	53	56	56	56	56	56
44 Lower Malad	12	12	11	9.8	9.7	9.6	9.4	9.4	9.2	8.7	8.7	8.3	8.2	9.8
45 Lower Salmon	68	68	68	68	68	68	68	68	68	68	68	68	68	68
46 McNary Fishway	9.9	9.9	9.9	9.8	10.0	9.8	9.7	9.9	9.8	9.9	9.9	9.9	9.8	9.9
47 Mill Creek (WA)	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
48 Milner	0	0	0	0	6	10	5	3.4	0	0	0	0	0	0
49 Minidoka	28	28	12	13	13	13	13	14	15	15	15	30	30	30
50 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 North Umpqua	175	175	175	175	175	175	175	175	175	175	175	175	175	175
52 Oneida	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 Packwood	30	30	30	30	27	30	30	30	30	30	30	30	30	30
54 Palisades	94	78	69	56	19	16	34	28	22	19	19	97	165	162
55 Paris	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
56 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Reeder Gulch	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
58 Rogue	48	48	47	27	26	28	25	27	40	50	50	51	51	51
59 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13
60 Shoshone Falls	12	12	12	12	12	12	12	13	12	12	12	12	12	12
61 Smith Creek	0	0	0.1	1.7	1.2	0.5	0	0.7	0.9	5.7	5.7	36	28	3.9
62 Snoq. Electron & Nooksack	73	73	73	73	73	73	73	73	73	73	73	73	73	73

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Soda Creek	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
64 Soda Point Project	14	14	14	14	14	14	14	14	14	14	14	14	14	14
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9
66 Stone Creek	7.9	7.1	6.2	5.1	4.1	5.3	4.1	4.6	6.9	9	9	9	9	9
67 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
68 Swan Falls	19	19	16	21	19	19	17	20	18	22	22	16	15	15
69 Swift Creek Hydro	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
70 The Dalles Fishway	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.4	5.4	5.3	5.4	5.4
71 Thousand Springs	7.9	7.9	7.2	6.4	6.3	6.2	6.1	6.1	6.0	5.6	5.6	5.4	5.4	6.4
72 Trail Bridge	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
73 TW Sullivan	14	14	14	14	14	15	15	15	15	15	15	15	15	15
74 Twin Falls	8.0	8.0	8	4.7	11	14	10	9.2	0	0	0	0	0	7.7
75 Upper Malad	7.5	7.5	6.8	6.0	5.9	5.9	5.8	5.8	5.7	5.3	5.3	5.1	5.1	6.0
76 Upper Salmon 1 & 2	21	21	20	22	20	20	20	20	20	23	23	20	20	20
77 Upper Salmon 3 & 4	18	18	18	19	18	18	18	18	18	20	20	18	18	18
78 Wallowa Falls	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
79 Walterville	3.8	3.2	2.6	0	0	5	3.1	8.7	9.5	9.5	9.5	9.5	9.5	7.7
80 West Side (Klamath)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wyochee	4.3	4.3	14	14	13	14	15	14	14	11	11	1.7	1.8	15
82 Yelm	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Independent Hydro w/Enc.	1635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808
-Total Independent Hydro W/Enc.-														
83 Federal System	606	618	552	611	579	389	330	380	535	585	704	830	896	665
84 Public Entities	261	257	299	288	279	304	292	307	334	334	334	360	351	297
85 Investor-Owned Entities	768	768	836	824	815	824	810	813	821	873	878	904	907	846
86 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Total Independent Hydro w/End	635	1643	1687	1724	1673	1518	1431	1500	1689	1792	1916	2094	2154	1808

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Table A-5
Imports
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-5: Regional Imports
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	170	170	151	151	156	166	175	162	156	144	144	145	162	179
2 Other Entities to IPC	83	83	0	0	0	0	0	0	0	0	0	0	0	83
3 PPL to BPA PwrS	0	0	0	267	300	398	400	335	336	337	337	162	108	130
4 PPL to BPA PwrS	130	130	132	0	0	0	0	0	0	0	0	0	0	0
5 Total Imports From ECD	383	383	283	418	456	564	575	497	492	481	481	307	270	392
-Imports From Pacific Southwest-														
6 BARC to PSE PwrS	0	0	0	0	75	75	75	75	0	0	0	0	0	0
7 GLEN to PGE S/Pwr/X	0	0	0	0	30	30	30	30	0	0	0	0	0	0
8 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
9 PASA to BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PASA to BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PASA to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
13 RVSD to BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 RVSD to BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RVSD to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 SEMP to PSE PwrS	75	75	75	75	75	75	75	75	75	25	25	25	25	75
17 SUISSSE to PSE PwrS	50	50	50	50	50	50	50	50	50	50	50	50	50	50
18 Total Imports From PSW	125	125	125	125	554	576	576	576	171	87	87	75	75	125
-Imports From Inland Southwest-														
19 SPP to BPA PwrS	0	0	0	45	45	45	45	45	45	75	75	75	75	75
20 SPP to BPA PwrS	75	75	75	0	0	0	0	0	0	0	0	0	0	0
21 UPL to UPL PwrS	524	524	482	482	488	510	481	494	460	437	437	507	607	641
22 Total Imports From ISW	599	599	557	527	533	555	526	539	505	512	512	582	682	716
-Imports From Canada-														
23 BCHP to BPA PwrS	0	0	0	1	1	1	1	1	1	1	1	1	1	1
24 BCHP to BPA PwrS	1	1	1	0	0	0	0	0	0	0	0	0	0	0
25 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
26 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
27 PWRX to PSE PwrS	0	0	0	0	0	150	150	150	0	0	0	0	0	0
28 Total Imports From Canada	146	146	146	147	102	274	305	338	213	147	147	147	146	146
-Imports From Other Entities-														
29 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
30 Federal System	206	206	208	313	346	444	446	381	382	413	413	238	184	206
31 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
32 Investor-Owned Entities	734	734	610	610	1022	1194	1166	1178	589	516	516	585	685	852
33 Other Entities	170	170	151	151	156	166	175	162	156	144	144	145	162	179
34 Total Imports.	1253	1253	1111	1216	1646	1969	1982	1950	1381	1227	1227	1111	1173	1379

**Table A-5: Regional Imports
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	172	172	153	152	157	168	176	164	158	145	145	147	164	181
2 Other Entities to IPC	83	83	0	0	0	0	0	0	0	0	0	0	0	0
3 PPL to BPA PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
4 Total Imports From ECD	385	385	285	419	457	566	576	499	494	482	482	309	272	311
-Imports From Pacific Southwest-														
5 BARC to PSE PwrS	0	0	0	0	75	75	75	75	0	0	0	0	0	0
6 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
7 PASA to BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 PASA to BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PASA to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
11 RVSD to BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 RVSD to BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 RVSD to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 SEMP to PSE PwrS	75	75	75	75	75	75	75	75	75	0	0	0	0	0
15 SUISE to PSE PwrS	50	50	50	50	50	50	50	50	50	0	0	0	0	0
16 Total Imports From PSW	125	125	125	125	524	546	546	546	171	12	12	0	0	0
-Imports From Inland Southwest-														
17 SPP to BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
18 UPL to UPL PwrS	528	528	486	486	492	514	485	498	464	440	440	511	613	647
19 Total Imports From ISW	603	603	561	531	537	559	530	543	509	515	515	586	688	722
-Imports From Canada-														
20 BCHP to BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
22 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
23 Total Imports From Canada	146	146	146	147	102	124	155	188	213	147	147	147	146	146
-Imports From Other Entities-														
24 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
25 Federal System	206	206	208	313	346	444	446	381	382	413	413	238	184	206
26 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
27 Investor-Owned Entities	739	739	614	614	996	1018	990	1002	593	444	444	514	615	650
28 Other Entities	172	172	153	152	157	168	176	164	158	145	145	147	164	181
29 Total Imports.	1260	1260	1117	1222	1621	1795	1807	1775	1387	1157	1157	1042	1106	1180

Table A-5: Regional Imports
 PNW Loads and Resource Study
 2013 - 2014 Operating Year
 [76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	175	175	155	154	159	170	178	165	159	147	147	148	166	184
2 PPL to BPA PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
3 Total Imports From ECD	305	305	287	421	459	568	578	500	495	484	484	310	274	314
-Imports From Pacific Southwest-														
4 BARC to PSE PwrS	0	0	0	0	75	75	75	75	0	0	0	0	0	0
5 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
6 PASA to BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 PASA to BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 PASA to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
10 RVSD to BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 RVSD to BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 RVSD to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Imports From PSW	0	0	0	0	400	421	421	421	46	12	12	0	0	0
-Imports From Inland Southwest-														
14 SPP to BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
15 UPL to UPL PwrS	533	533	490	490	496	518	489	502	468	444	444	516	618	653
16 Total Imports From ISW	608	608	565	535	541	564	534	547	513	519	519	591	693	728
-Imports From Canada-														
17 BCHP to BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
19 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
20 Total Imports From Canada	146	146	146	147	102	124	155	188	213	147	147	147	146	146
-Imports From Other Entities-														
21 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
22 Federal System	206	206	208	313	346	444	446	381	382	413	413	238	184	206
23 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
24 Investor-Owned Entities	536	536	493	493	875	898	869	882	472	448	448	519	621	656
25 Other Entities	175	175	155	154	159	170	178	165	159	147	147	148	166	184
26 Total Imports.	1059	1059	998	1102	1502	1676	1688	1656	1267	1162	1162	1047	1114	1188

Table A-5: Regional Imports
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	177	177	157	155	160	171	180	167	161	148	148	150	169	186
2 PPL to BPA PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
3 Total Imports From ECD	307	307	289	422	460	569	580	502	497	485	485	312	277	316
-Imports From Pacific Southwest-														
4 BARC to PSE PwrS	0	0	0	0	75	75	75	75	0	0	0	0	0	0
5 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
6 PASA to BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 PASA to BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 PASA to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
10 RVSD to BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 RVSD to BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 RVSD to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Imports From PSW	0	0	0	0	400	421	421	421	46	12	12	0	0	0
-Imports From Inland Southwest-														
14 SPP to BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
15 UPL to UPL PwrS	538	538	494	494	500	523	494	507	472	447	447	520	624	660
16 Total Imports From ISW	612	612	569	539	545	568	538	552	517	522	522	595	699	734
-Imports From Canada-														
17 BCHP to BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
19 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
20 Total Imports From Canada	146	146	146	147	102	124	155	188	213	147	147	147	146	146
-Imports From Other Entities-														
21 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
22 Federal System	206	206	208	313	346	444	446	381	382	413	413	238	184	206
23 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
24 Investor-Owned Entities	540	540	497	497	880	902	874	886	476	451	451	523	627	662
25 Other Entities	177	177	157	155	160	171	180	167	161	148	148	150	169	186
26 Total Imports.	1066	1066	1004	1108	1508	1682	1694	1662	1272	1166	1166	1053	1122	1197

**Table A-5: Regional Imports
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	179	179	159	156	162	173	181	168	162	149	149	151	171	189
2 PPL to BPA PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
3 Total Imports From ECD	309	309	291	423	462	571	581	503	498	486	486	313	279	319
-Imports From Pacific Southwest-														
4 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
5 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
6 RVSD to BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 RVSD to BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 RVSD to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Total Imports From PSW	0	0	0	0	324	346	346	346	46	12	12	0	0	0
-Imports From Inland Southwest-														
10 SPP to BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
11 UPL to UPL PwrS	542	542	498	498	504	528	498	511	476	451	451	525	630	666
12 Total Imports From ISW	617	617	573	543	550	572	543	556	520	526	526	600	705	741
-Imports From Canada-														
13 BCHP to BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
15 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
16 Total Imports From Canada	146	146	146	147	102	124	155	188	213	147	147	147	146	146
-Imports From Other Entities-														
17 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
18 Federal System	206	206	208	313	346	444	446	381	382	413	413	238	184	206
19 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
20 Investor-Owned Entities	545	545	501	502	809	832	803	815	480	455	455	528	632	668
21 Other Entities	179	179	159	156	162	173	181	168	162	149	149	151	171	189
22 Total Imports.	1073	1073	1010	1113	1438	1613	1625	1593	1278	1171	1171	1059	1130	1206

Table A-5: Regional Imports
 PNW Loads and Resource Study
 2016 - 2017 Operating Year
 [76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	182	182	161	158	163	175	183	170	164	151	151	153	173	191
2 PPL to BPA PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
3 Total Imports From ECD	312	312	293	425	463	573	583	505	500	488	488	315	281	321
-Imports From Pacific Southwest-														
4 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
5 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
6 Total Imports From PSW	0	0	0	0	324	346	346	346	46	12	12	0	0	0
-Imports From Inland Southwest-														
7 SPP to BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
8 UPL to UPL PwrS	547	547	502	502	509	532	502	515	479	455	455	529	636	672
9 Total Imports From ISW	622	622	577	547	554	577	547	560	524	530	530	604	711	747
-Imports From Canada-														
10 BCHP to BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
12 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
13 Total Imports From Canada	146	146	146	147	102	124	155	188	213	147	147	147	146	146
-Imports From Other Entities-														
14 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
15 Federal System	206	206	208	313	346	444	446	381	382	413	413	238	184	206
16 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
17 Investor-Owned Entities	550	550	505	506	813	836	807	820	483	458	458	532	638	675
18 Other Entities	182	182	161	158	163	175	183	170	164	151	151	153	173	191
19 Total Imports.	1080	1080	1017	1119	1444	1619	1631	1599	1283	1177	1177	1065	1138	1215

**Table A-5: Regional Imports
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	183	183	162	159	165	176	185	171	165	152	152	154	175	193
2 PPL to BPA PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
3 Total Imports From ECD	313	313	294	426	465	574	585	506	501	489	489	316	283	323
-Imports From Pacific Southwest-														
4 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
5 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
6 Total Imports From PSW	0	0	0	0	324	346	346	346	46	12	12	0	0	0
-Imports From Inland Southwest-														
7 SPP to BPA PwrS	75	75	75	45	45	45	45	45	0	0	0	0	0	0
8 UPL to UPL PwrS	552	552	507	506	513	537	506	520	483	458	458	534	642	678
9 Total Imports From ISW	627	627	582	552	558	582	551	565	483	458	458	534	642	678
-Imports From Canada-														
10 BCHP to BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
12 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
13 Total Imports From Canada	146	146	146	147	102	124	155	188	213	147	147	147	146	146
-Imports From Other Entities-														
14 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
15 Federal System	206	206	208	313	346	444	446	381	337	338	338	163	109	131
16 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
17 Investor-Owned Entities	555	555	509	510	817	841	811	824	487	462	462	537	644	681
18 Other Entities	183	183	162	159	165	176	185	171	165	152	152	154	175	193
19 Total Imports.	1086	1086	1022	1125	1450	1625	1637	1605	1244	1107	1107	996	1070	1148

Table A-5: Regional Imports
 PNW Loads and Resource Study
 2018 - 2019 Operating Year
 [76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	185	185	164	161	166	178	186	173	167	153	153	155	176	195
2 PPL to BPA PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
3 Total Imports From ECD	315	315	296	428	466	576	586	508	503	490	490	317	284	325
-Imports From Pacific Southwest-														
4 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
5 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
6 Total Imports From PSW	0	0	0	0	324	346	346	346	46	12	12	0	0	0
-Imports From Inland Southwest-														
7 UPL to UPL PwrS	557	557	511	511	518	541	510	524	488	462	462	538	648	685
8 Total Imports From ISW	557	557	511	511	518	541	510	524	488	462	462	538	648	685
-Imports From Canada-														
9 BCHP to BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
11 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
12 Total Imports From Canada	146	146	146	147	102	124	155	188	213	147	147	147	146	146
-Imports From Other Entities-														
13 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
14 Federal System	131	131	133	268	301	399	401	336	337	338	338	163	109	131
15 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
16 Investor-Owned Entities	560	560	514	514	822	846	816	828	492	466	466	542	650	688
17 Other Entities	185	185	164	161	166	178	186	173	167	153	153	155	176	195
18 Total Imports.	1018	1018	953	1086	1411	1587	1598	1566	1249	1112	1112	1002	1078	1156

Table A-5: Regional Imports
 PNW Loads and Resource Study
 2019 - 2020 Operating Year
 [76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	186	186	165	162	168	179	188	174	168	155	155	156	178	196
2 PPL to BPA PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
3 Total Imports From ECD	316	316	297	429	468	577	588	509	504	492	492	318	286	326
-Imports From Pacific Southwest-														
4 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
5 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
6 Total Imports From PSW	0	0	0	0	324	346	346	346	46	12	12	0	0	0
-Imports From Inland Southwest-														
7 UPL to UPL PwrS	562	562	515	515	522	546	515	529	492	466	466	543	654	692
8 Total Imports From ISW	562	562	515	515	522	546	515	529	492	466	466	543	654	692
-Imports From Canada-														
9 BCHP to BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
11 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
12 Total Imports From Canada	146	146	146	147	102	124	155	188	213	147	147	147	146	146
-Imports From Other Entities-														
13 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
14 Federal System	131	131	133	268	301	399	401	336	337	338	338	163	109	131
15 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
16 Investor-Owned Entities	564	564	518	519	826	851	820	833	496	470	470	546	656	694
17 Other Entities	186	186	165	162	168	179	188	174	168	155	155	156	178	196
18 Total Imports.	1024	1024	959	1091	1417	1593	1604	1572	1255	1117	1117	1008	1086	1164

Table A-5: Regional Imports
 PNW Loads and Resource Study
 2020 - 2021 Operating Year
 [76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Imports From East of Continental Divide-														
1 ECDMktr to Other Entities	188	188	167	163	169	181	189	176	169	156	156	158	179	198
2 PPL to BPA PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
3 Total Imports From ECD	318	318	299	430	469	579	589	511	505	493	493	320	287	328
-Imports From Pacific Southwest-														
4 NCPA to SCL S/Pwr/X	0	0	0	0	24	46	46	46	46	12	12	0	0	0
5 PG&E to PSE S/Pwr/X	0	0	0	0	300	300	300	300	0	0	0	0	0	0
6 Total Imports From PSW	0	0	0	0	324	346	346	346	46	12	12	0	0	0
-Imports From Inland Southwest-														
7 UPL to UPL PwrS	567	567	520	520	526	551	519	533	496	470	470	548	660	698
8 Total Imports From ISW	567	567	520	520	526	551	519	533	496	470	470	548	660	698
-Imports From Canada-														
9 BCHP to BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 BCHP to SCL PwrS	142	142	142	142	97	118	149	182	208	142	142	142	142	142
11 Other Entities to PSE	2.8	2.8	2.8	3.5	4.3	4.4	5	4.3	4	3.7	3.7	3.1	2.6	2.7
12 Total Imports From Canada	146	146	146	147	102	124	155	188	213	147	147	147	146	146
-Imports From Other Entities-														
13 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-														
14 Federal System	131	131	133	268	301	399	401	336	337	338	338	163	109	131
15 Public Entities	142	142	142	142	122	164	195	228	254	154	154	142	142	142
16 Investor-Owned Entities	570	570	523	523	831	855	824	838	500	473	473	551	662	701
17 Other Entities	188	188	167	163	169	181	189	176	169	156	156	158	179	198
18 Total Imports.	1031	1031	965	1097	1422	1599	1610	1578	1260	1122	1122	1014	1093	1172

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Table A-6
Small Thermal & Miscellaneous
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Termal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

**Table A-6: Regional Small Thermal and Miscellaneous
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Bangor Base #1 Diesel Generators	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 Bangor Base #2 Diesel Generators	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3 Puget Sound Shipyards Diesel Generators	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 Total Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
-Public Entities-														
5 Total Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
6 Crystal Mountain	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7 Total Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-Other Entities-														
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-														
9 Federal System	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	32	32	32	32	32	32	32	32	32	32	32	32	32	32

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Table A-7
Combustion Turbines
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	0	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	0	25
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson 1&2	144	144	147	151	155	158	158	156	155	153	153	150	146	145
20 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
21 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
22 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
23 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
24 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
25 Lancaster Power Project (Rathdrum)	268	268	272	252	283	287	289	289	286	283	283	276	272	268
26 Langley Gulch CT	0	0	0	0	0	0	0	0	0	0	0	0	0	300
27 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
28 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
29 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
30 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
31 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
33 Whitehorn 2 & 3	145	145	148	152	155	158	159	157	155	153	153	150	148	145
34 Total Investor-Owned Entities	3961	3961	4013	4090	4197	4250	4262	4228	4186	4134	4134	4047	3483	4255
-Other Entities-														
35 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
36 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Frederickson CT	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
38 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
39 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
43 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
44 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
46 Investor-Owned Entities	3961	3961	4013	4090	4197	4250	4262	4228	4186	4134	4134	4047	3483	4255
47 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
48 Total Combustion Turbines	5360	5360	5423	5517	5631	5685	5697	5662	5614	5457	5457	4190	4797	5653

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	0	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	25	0	25
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson 1&2	144	144	147	151	155	158	158	156	155	153	153	150	146	145
20 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
21 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
22 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
23 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
24 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
25 Lancaster Power Project (Rathdrum)	268	268	272	252	283	287	289	289	286	283	283	276	272	268
26 Langley Gulch CT	300	300	300	300	300	300	300	300	300	300	300	300	300	300
27 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
28 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
29 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
30 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
31 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
33 Whitehorn 2 & 3	145	145	148	152	155	158	159	157	155	153	153	150	148	145
34 Total Investor-Owned Entities	4261	4261	4313	4390	4497	4550	4562	4528	4486	4434	4434	4371	3783	4255
-Other Entities-														
35 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
36 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Frederickson CT	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
38 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
39 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
43 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
44 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
46 Investor-Owned Entities	4261	4261	4313	4390	4497	4550	4562	4528	4486	4434	4434	4371	3783	4255
47 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
48 Total Combustion Turbines	5660	5660	5723	5817	5931	5985	5997	5962	5914	5757	5757	4515	5097	5653

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	0	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	0	25
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson 1&2	144	144	147	151	155	158	158	156	155	153	153	150	146	145
20 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
21 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
22 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
23 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
24 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
25 Lancaster Power Project (Rathdrum)	268	268	272	252	283	287	289	289	286	283	283	276	0	268
26 Langley Gulch CT	300	300	300	300	300	300	300	300	300	300	300	300	300	300
27 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
28 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
29 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
30 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
31 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
33 Whitehorn 2 & 3	145	145	148	152	155	158	159	157	155	153	153	150	148	145
34 Total Investor-Owned Entities	4261	4261	4313	4390	4497	4550	4562	4528	4486	4434	4434	4347	3511	4255
-Other Entities-														
35 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
36 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Frederickson CT	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
38 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
39 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
43 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
44 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
46 Investor-Owned Entities	4261	4261	4313	4390	4497	4550	4562	4528	4486	4434	4434	4347	3511	4255
47 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
48 Total Combustion Turbines	5660	5660	5723	5817	5931	5985	5997	5962	5914	5757	5757	4490	4825	5653

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	0	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	25	0	25
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson 1&2	144	144	147	151	155	158	158	156	155	153	153	150	146	145
20 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
21 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
22 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
23 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
24 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
25 Lancaster Power Project (Rathdrum)	268	268	272	252	283	287	289	289	286	283	283	276	272	268
26 Langley Gulch CT	300	300	300	300	300	300	300	300	300	300	300	300	300	300
27 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
28 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
29 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
30 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
31 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
33 Whitehorn 2 & 3	145	145	148	152	155	158	159	157	155	153	153	150	148	145
34 Total Investor-Owned Entities	4261	4261	4313	4390	4497	4550	4562	4528	4486	4434	4434	4371	3783	4255
-Other Entities-														
35 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
36 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Frederickson CT	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
38 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
39 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
43 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
44 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
46 Investor-Owned Entities	4261	4261	4313	4390	4497	4550	4562	4528	4486	4434	4434	4371	3783	4255
47 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
48 Total Combustion Turbines	5660	5660	5723	5817	5931	5985	5997	5962	5914	5757	5757	4515	5097	5653

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	0	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	25	0	25
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson 1&2	144	144	147	151	155	158	158	156	155	153	153	150	146	145
20 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
21 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
22 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
23 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
24 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
25 Lancaster Power Project (Rathdrum)	268	268	272	252	283	287	289	289	286	283	283	276	272	268
26 Langley Gulch CT	300	300	300	300	300	300	300	300	300	300	300	300	300	300
27 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
28 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
29 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
30 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
31 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
33 Whitehorn 2 & 3	145	145	148	152	155	158	159	157	155	153	153	150	148	145
34 Total Investor-Owned Entities	4262	4262	4314	4390	4497	4549	4563	4528	4485	4434	4434	4371	3783	4255
-Other Entities-														
35 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
36 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Frederickson CT	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
38 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
39 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
43 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
44 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
46 Investor-Owned Entities	4262	4262	4314	4390	4497	4549	4563	4528	4485	4434	4434	4371	3783	4255
47 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
48 Total Combustion Turbines	5660	5660	5723	5817	5931	5984	5998	5962	5914	5757	5757	4515	5097	5653

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	0	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	25	25	0
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson 1&2	144	144	147	151	155	158	0	0	0	0	0	0	0	0
20 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
21 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
22 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
23 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
24 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
25 Lancaster Power Project (Rathdrum)	268	268	272	252	283	287	289	289	286	283	283	276	272	268
26 Langley Gulch CT	300	300	300	300	300	300	300	300	300	300	300	300	300	300
27 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
28 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
29 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
30 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
31 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
33 Whitehorn 2 & 3	145	145	148	152	155	158	0	0	0	0	0	0	0	0
34 Total Investor-Owned Entities	4262	4262	4314	4390	4497	4549	4246	4215	4176	4128	4128	4072	3513	3940
-Other Entities-														
35 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
36 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Frederickson CT	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
38 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
39 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
43 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
44 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
46 Investor-Owned Entities	4262	4262	4314	4390	4497	4549	4246	4215	4176	4128	4128	4072	3513	3940
47 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
48 Total Combustion Turbines	5660	5660	5723	5817	5931	5984	5681	5650	5604	5451	5451	4215	4828	5338

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	0	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	0	0	25	25	25	25	25	25	25	25	25	25	0
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
20 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
21 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
22 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
23 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
24 Lancaster Power Project (Rathdrum)	268	268	272	283	287	289	289	289	286	283	283	276	272	268
25 Langley Gulch CT	300	300	300	300	300	300	300	300	300	300	300	300	300	300
26 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
27 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
28 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
29 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
30 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
31 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Total Investor-Owned Entities	3972	3947	3995	4087	4186	4234	4246	4215	4176	4128	4128	4072	3513	3940
-Other Entities-														
33 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
34 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Frederickson CT	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
36 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
37 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
41 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
42 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Public Entities	400	400	411	429	436	437	437	436	430	424	424	143	416	400
44 Investor-Owned Entities	3972	3947	3995	4087	4186	4234	4246	4215	4176	4128	4128	4072	3513	3940
45 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
46 Total Combustion Turbines	5370	5345	5404	5514	5621	5669	5681	5650	5604	5451	5451	4215	4828	5338

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	44	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	187	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	25	0	25
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
20 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
21 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
22 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
23 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
24 Lancaster Power Project (Rathdrum)	268	268	272	283	287	289	289	289	286	283	283	276	272	268
25 Langley Gulch CT	300	300	300	300	300	300	300	300	300	300	300	300	300	300
26 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
27 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
28 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
29 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
30 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
31 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Total Investor-Owned Entities	3972	3972	4019	4087	4187	4234	4246	4215	4176	4128	4128	4071	3489	3965
-Other Entities-														
33 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
34 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Frederickson CT	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
36 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
37 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
41 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
42 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Public Entities	400	400	411	429	436	437	437	436	430	424	424	187	416	400
44 Investor-Owned Entities	3972	3972	4019	4087	4187	4234	4246	4215	4176	4128	4128	4071	3489	3965
45 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
46 Total Combustion Turbines	5370	5370	5429	5514	5621	5669	5681	5650	5605	5451	5451	4259	4803	5363

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	44	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	187	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	25	25	25	25	25	25	25	25	0	0	25	25	25
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
20 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
21 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
22 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
23 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
24 Lancaster Power Project (Rathdrum)	268	268	272	283	287	289	289	286	283	283	283	276	272	268
25 Langley Gulch CT	300	300	300	300	300	300	300	300	300	300	300	300	300	300
26 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
27 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
28 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
29 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
30 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
31 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Total Investor-Owned Entities	3972	3972	4019	4087	4187	4234	4246	4215	4176	4104	4104	4071	3513	3965
-Other Entities-														
33 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
34 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Frederickson CT	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
36 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
37 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
41 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
42 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Public Entities	400	400	411	429	436	437	437	436	430	424	424	187	416	400
44 Investor-Owned Entities	3972	3972	4019	4087	4187	4234	4246	4215	4176	4104	4104	4071	3513	3965
45 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
46 Total Combustion Turbines	5370	5370	5429	5514	5621	5669	5681	5650	5605	5427	5427	4259	4828	5363

**Table A-7: Regional Combustion Turbines
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
2 Boundary CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Finley CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Frederickson CT	133	133	134	137	139	140	140	139	139	138	138	136	134	133
5 Olympic View Generating Station	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
6 Pasco Harbor Generating Station	44	44	44	44	44	44	44	44	44	44	44	44	44	44
7 River Road	205	205	215	230	235	235	235	235	230	225	225	0	220	205
8 Wauna Peaking Project (Loki)	11	11	11	11	11	11	11	11	11	11	11	0	11	11
9 Total Public Entities	400	400	411	429	436	437	437	436	430	424	424	187	416	400
-Investor-Owned Entities-														
10 Basin Creek Project	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Beaver	475	475	482	492	502	509	509	506	502	496	496	489	482	475
12 Beaver 8	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13 Bennett Mountain	168	168	170	175	177	178	180	178	176	174	174	172	168	165
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	25	0	25
15 Chehalis Generation Facility CCCT	484	484	490	500	509	513	514	511	508	503	503	496	0	484
16 Danskin 1	87	87	88	89	91	92	93	92	90	88	88	88	87	86
17 Danskin 2	168	168	170	175	177	178	180	178	176	174	174	172	168	165
18 Encogen	167	167	170	175	179	182	183	181	179	176	176	173	170	167
19 Frederickson CT	133	133	134	136	138	139	139	139	138	137	137	136	134	133
20 Fredonia 1&2	200	200	203	209	214	217	218	215	213	210	210	206	203	200
21 Fredonia 3&4	109	109	110	114	118	120	121	119	117	115	115	113	110	109
22 Goldendale Energy Center	271	271	277	283	289	292	291	289	286	284	284	279	275	271
23 Kettle Falls (CT)	8	8	9	10	10	11	11	11	10	10	10	9	0	8
24 Lancaster Power Project (Rathdrum)	268	268	272	283	287	289	289	289	286	283	283	276	272	268
25 Langley Gulch CT	300	300	300	300	300	300	300	300	300	300	300	300	300	300
26 Mill Creek Gas Turbine (MT)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
27 Mint Farm Energy Center	293	293	296	302	306	307	307	306	305	303	303	300	297	294
28 Northeastern 1 & 2	52	52	54	60	64	66	66	64	62	60	60	56	54	52
29 Port Westward CCCT	399	399	400	409	418	423	423	421	417	410	410	406	401	398
30 Rathdrum - Boekel Rd. #1	73	73	75	81	84	87	88	86	83	80	80	78	74	73
31 Rathdrum - Boekel Rd. #2	73	73	75	81	84	87	88	86	83	80	80	78	74	73
32 Total Investor-Owned Entities	3972	3972	4019	4087	4187	4234	4246	4215	4176	4128	4128	4071	3489	3965
-Other Entities-														
33 Big Hanaford CCCT	248	248	248	248	248	248	248	248	248	248	248	0	248	248
34 Chehalis Generation Facility CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Frederickson CT	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
36 Klamath Peaking Unit	100	100	100	100	100	100	100	100	100	0	0	0	0	100
37 Lancaster Power Project (Rathdrum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Longview Fibre CT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Mint Farm Energy Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Satsop	650	650	650	650	650	650	650	650	650	650	650	0	650	650
41 Total Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
-Combustion Turbines-														
42 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Public Entities	400	400	411	429	436	437	437	436	430	424	424	187	416	400
44 Investor-Owned Entities	3972	3972	4019	4087	4187	4234	4246	4215	4176	4128	4128	4071	3489	3965
45 Other Entities	998	998	998	998	998	998	998	998	998	898	898	0.4	898	998
46 Total Combustion Turbines	5370	5370	5429	5514	5621	5669	5681	5650	5605	5451	5451	4259	4803	5363

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Table A-8
Renewable Resources
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	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
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	47	0	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	47	0	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
94 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95 Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
96 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	47	0	47
97 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Total Renewable Resources	78	78	78	78	78	78	78	78	78	78	78	78	31	78

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	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
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	0	0	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
94 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95 Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
96 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
97 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Total Renewable Resources	78	78	78	78	78	78	78	78	78	78	78	31	31	78

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	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
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	0	0	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Leaning Juniper 2b	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
95 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
97 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
98 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Total Renewable Resources	78	78	78	78	78	78	78	78	78	78	78	31	31	78

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	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
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	0	0	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Leaning Juniper 2b	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
95 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
97 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
98 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Total Renewable Resources	78	78	78	78	78	78	78	78	78	78	78	31	31	78

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	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
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	0	0	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Leaning Juniper 2b	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
95 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
97 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
98 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Total Renewable Resources	78	78	78	78	78	78	78	78	78	78	78	31	31	78

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	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
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	0	47	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	47	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Leaning Juniper 2b	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
95 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
97 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	47	47
98 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Total Renewable Resources	78	78	78	78	78	78	78	78	78	78	78	31	78	78

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	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
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	0	0	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Leaning Juniper 2b	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
95 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
97 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
98 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Total Renewable Resources	78	78	78	78	78	78	78	78	78	78	78	31	31	78

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	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
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	0	0	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Leaning Juniper 2b	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
95 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Public Entities	31	31	31	31	31	31	31	31	31	31	31	31	31	31
97 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
98 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Total Renewable Resources	78	78	78	78	78	78	78	78	78	78	78	31	31	78

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	0.9	0.9	0.9	0.9	0.9	0.9	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	31	31	31	31	31	31	32	32	32	32	32	32	32	32
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	0	0	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Leaning Juniper 2b	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
95 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Public Entities	31	31	31	31	31	31	32	32	32	32	32	32	32	32
97 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
98 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Total Renewable Resources	78	78	78	78	78	78	79	79	79	79	79	32	32	79

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Condon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Foote Creek 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Foote Creek 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Klondike I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
9 Big Horn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Big Horn II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Coffin Butte	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12 Coffin Butte II	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
13 Columbia Ridge Landfill	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14 Eurus Combine Hills II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Flathead County Landfill	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
16 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Grayland Wind (Coastal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Harvest Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Hay Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Linden Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Nine Canyon Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Pebble Springs Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 River Bend Landfill	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
25 Roosevelt Landfill (H.W. Hill)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26 Short Mountain	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
27 Star Point (100%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Wheatfield Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Windy Flats I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Windy Flats II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Windy Point - Tuolumne Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Total Public Entities	32	32	32	32	32	32	32	32	32	32	32	32	32	32
-Investor-Owned Entities-														
36 (Goshen North) Ridgeline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 Bennett Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Biglow Canyon Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Biglow Canyon Phase II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Biglow Canyon Phase III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Burley Butte Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Camp Reed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Cassia Farms Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Cassia Gulch Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Elkhorn Valley Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Eurus Combine Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Foote Creek 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Fossil Gulch Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 Golden Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Goodnoe Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Hopkins Ridge I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Hopkins Ridge II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Horseshoe Bend Wind Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Hot Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Kettle Falls (biomass)	47	47	47	47	47	47	47	47	47	47	47	0	0	47
56 Klondike II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-8: Regional Renewable Resources
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
59 Leaning Juniper	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 Lower Snake River Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Marengo I Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Marengo II Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 Milner Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Oregon Trail	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65 Oregon Wind Farm I (Echo I)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 Oregon Wind Farm II (Echo II)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 PaTu Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68 Paynes Ferry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Pilgrim Stage Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rattlesnake Road Wind Farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 Rock River I Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Salmon Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Thousand Spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Threemile Canyon Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Tuana Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Tuana Springs Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Vansycle Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Vantage Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Wild Horse I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 Wild Horse II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Wolverine Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Yahoo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 Total Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
-Other Entities-														
85 Juniper Canyon I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Kittitas Valley Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87 Klondike III	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88 Klondike IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 Leaning Juniper 2a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 Leaning Juniper 2b	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91 Stateline Wind Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 White Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Willow Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-														
95 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Public Entities	32	32	32	32	32	32	32	32	32	32	32	32	32	32
97 Investor-Owned Entities	47	47	47	47	47	47	47	47	47	47	47	0	0	47
98 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Total Renewable Resources	79	79	79	79	79	79	79	79	79	79	79	32	32	79

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Table A-9
Cogeneration
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	22	22	19	14	18
2 Total Federal System	12	12	14	18	20	23	24	23	23	22	22	19	14	18
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 Hampton Lumber Mill (Darrington)	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
7 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	22	22	22	22	22
8 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Longview Fibre Cogen 1-7	30	30	30	0	0	0	0	0	0	0	0	0	0	0
10 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
11 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
12 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
13 Total Public Entities	197	197	197	167	167	167	167	167	167	167	167	167	167	167
-Investor Owned Entities-														
14 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
15 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	0	277	272
16 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	472	472	472	472	472
18 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
19 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
20 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	1396	850	1364	1352
-Other Entities-														
22 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Hermiston Power Project	630	630	630	630	630	630	630	630	0	630	630	630	630	630
25 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
27 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
28 Longview Fibre Cogen 1-7	0	0	0	35	35	35	35	35	35	35	35	35	35	35
29 SDS Lumber	1	1	1	0	0	0	0	0	0	0	0	0	0	0
30 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
31 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
34 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
35 Total Other Entities	1319	1319	1319	1353	1353	1353	1353	1353	696	1353	1353	1353	1353	1353
-Cogeneration-														
36 Federal System	12	12	14	18	20	23	24	23	23	22	22	19	14	18
37 Public Entities	197	197	197	167	167	167	167	167	167	167	167	167	167	167
38 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	1396	850	1364	1352
39 Other Entities	1319	1319	1319	1353	1353	1353	1353	1353	696	1353	1353	1353	1353	1353
40 Total Cogeneration	2882	2882	2899	2932	2948	2959	2962	2955	2291	2938	2938	2389	2898	2890

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	22	22	19	14	18
2 Total Federal System	12	12	14	18	20	23	24	23	23	22	22	19	14	18
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 Hampton Lumber Mill (Darrington)	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
7 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	22	22	22	22	22
8 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Longview Fibre Cogen 1-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
11 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
12 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
13 Total Public Entities	167	167	167	167	167	167	167	167	167	167	167	167	167	167
-Investor Owned Entities-														
14 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
15 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	0	277	272
16 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	0	0	472	472	472
18 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
19 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
20 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	924	924	850	1364	1352
-Other Entities-														
22 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Hermiston Power Project	630	630	630	630	630	630	630	630	0	630	630	630	630	630
25 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
27 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
28 Longview Fibre Cogen 1-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35
29 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
30 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
32 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
33 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
34 Total Other Entities	1353	1353	1353	1353	1353	1353	1353	1353	696	1353	1353	1353	1353	1353
-Cogeneration-														
35 Federal System	12	12	14	18	20	23	24	23	23	22	22	19	14	18
36 Public Entities	167	167	167	167	167	167	167	167	167	167	167	167	167	167
37 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	924	924	850	1364	1352
38 Other Entities	1353	1353	1353	1353	1353	1353	1353	1353	696	1353	1353	1353	1353	1353
39 Total Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2466	2466	2389	2898	2890

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	22	22	19	14	18
2 Total Federal System	12	12	14	18	20	23	24	23	23	22	22	19	14	18
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 Hampton Lumber Mill (Darrington)	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
7 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	22	22	22	22	22
8 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Longview Fibre Cogen 1-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
11 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
12 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
13 Total Public Entities	167	167	167	167	167	167	167	167	167	167	167	167	167	167
-Investor Owned Entities-														
14 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
15 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	263	277	272
16 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	472	0	472	472	472
18 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
19 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
20 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
-Other Entities-														
22 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Hermiston Power Project	630	630	630	630	630	630	630	630	0	630	630	630	630	630
25 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
27 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
28 Longview Fibre Cogen 1-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35
29 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
30 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
32 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
33 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
34 Total Other Entities	1353	1353	1353	1353	1353	1353	1353	1353	696	1353	1353	1353	1353	1353
-Cogeneration-														
35 Federal System	12	12	14	18	20	23	24	23	23	22	22	19	14	18
36 Public Entities	167	167	167	167	167	167	167	167	167	167	167	167	167	167
37 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
38 Other Entities	1353	1353	1353	1353	1353	1353	1353	1353	696	1353	1353	1353	1353	1353
39 Total Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2938	2466	2652	2898	2890

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	22	22	19	14	18
2 Total Federal System	12	12	14	18	20	23	24	23	23	22	22	19	14	18
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 Hampton Lumber Mill (Darrington)	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
7 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	0	0	0	0	0
8 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Longview Fibre Cogen 1-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
11 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
12 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
13 Total Public Entities	167	167	167	167	167	167	167	167	167	145	145	145	145	145
-Investor Owned Entities-														
14 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
15 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	263	277	272
16 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	472	0	472	472	472
18 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
19 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
20 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
-Other Entities-														
22 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Hermiston Power Project	630	630	630	630	630	630	630	630	0	630	630	630	630	630
25 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	22	22	22	22	22
26 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
27 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
28 Longview Fibre Cogen 1-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35
29 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
30 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
32 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
33 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
34 Total Other Entities	1353	1353	1353	1353	1353	1353	1353	1353	696	1375	1375	1375	1375	1375
-Cogeneration-														
35 Federal System	12	12	14	18	20	23	24	23	23	22	22	19	14	18
36 Public Entities	167	167	167	167	167	167	167	167	167	145	145	145	145	145
37 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
38 Other Entities	1353	1353	1353	1353	1353	1353	1353	1353	696	1375	1375	1375	1375	1375
39 Total Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2938	2466	2652	2898	2890

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	0	0	0	0	0
2 Total Federal System	12	12	14	18	20	23	24	23	23	0	0	0	0	0
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	22	22	19	14	18
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 Hampton Lumber Mill (Darrington)	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
7 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Longview Fibre Cogen 1-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
11 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
12 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
13 Total Public Entities	145	145	145	145	145	145	145	145	145	167	167	164	159	163
-Investor Owned Entities-														
14 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
15 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	263	277	272
16 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	0	0	472	472	472
18 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
19 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
20 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	924	924	1113	1364	1352
-Other Entities-														
22 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Hermiston Power Project	630	630	630	630	630	630	630	630	630	0	630	630	630	630
25 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	22	22	22	22	22
26 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
27 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
28 Longview Fibre Cogen 1-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35
29 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
30 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
32 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
33 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
34 Total Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
-Cogeneration-														
35 Federal System	12	12	14	18	20	23	24	23	23	0	0	0	0	0
36 Public Entities	145	145	145	145	145	145	145	145	145	167	167	164	159	163
37 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	924	924	1113	1364	1352
38 Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
39 Total Cogeneration	2886	2886	2903	2932	2948	2959	2962	2955	2291	2466	2466	2652	2898	2890

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	22	22	19	14	18
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 Hampton Lumber Mill (Darrington)	3.5	3.5	3.5	3.5	3.5	3.5	0	0	0	0	0	0	0	0
7 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Longview Fibre Cogen 1-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
11 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
12 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
13 Total Public Entities	157	157	159	163	164	167	165	164	164	163	163	160	156	159
-Investor Owned Entities-														
14 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
15 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	263	277	272
16 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	472	0	472	472	472
18 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
19 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
20 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
-Other Entities-														
22 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Hermiston Power Project	630	630	630	630	630	630	630	630	630	630	630	630	630	630
25 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	22	22	22	22	22
26 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
27 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
28 Longview Fibre Cogen 1-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35
29 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
30 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
32 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
33 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
34 Total Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
-Cogeneration-														
35 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Public Entities	157	157	159	163	164	167	165	164	164	163	163	160	156	159
37 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
38 Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
39 Total Cogeneration	2886	2886	2903	2932	2948	2959	2958	2952	2287	2934	2462	2648	2894	2886

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	22	22	19	14	18
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Longview Fibre Cogen 1-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
10 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
11 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
12 Total Public Entities	154	154	156	160	161	164	165	164	164	163	163	160	156	159
-Investor Owned Entities-														
13 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
14 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	263	277	272
15 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	472	0	472	472	472
17 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
18 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
19 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
-Other Entities-														
21 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Hermiston Power Project	630	630	630	630	630	630	630	630	0	630	630	630	630	630
24 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	22	22	22	22	22
25 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
26 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
27 Longview Fibre Cogen 1-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35
28 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
29 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
31 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
32 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
33 Total Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
-Cogeneration-														
34 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Public Entities	154	154	156	160	161	164	165	164	164	163	163	160	156	159
36 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
37 Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
38 Total Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2934	2462	2648	2894	2886

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	22	22	19	14	18
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Longview Fibre Cogen 1-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
10 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
11 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
12 Total Public Entities	154	154	156	160	161	164	165	164	164	163	163	160	156	159
-Investor Owned Entities-														
13 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
14 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	0	277	272
15 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	0	0	472	472	472
17 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
18 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
19 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	924	924	850	1364	1352
-Other Entities-														
21 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Hermiston Power Project	630	630	630	630	630	630	630	630	0	630	630	630	630	630
24 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	22	22	22	22	22
25 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
26 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
27 Longview Fibre Cogen 1-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35
28 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
29 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
31 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
32 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
33 Total Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
-Cogeneration-														
34 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Public Entities	154	154	156	160	161	164	165	164	164	163	163	160	156	159
36 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	924	924	850	1364	1352
37 Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
38 Total Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2462	2462	2385	2894	2886

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	22	22	19	14	18
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Longview Fibre Cogen 1-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
10 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
11 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
12 Total Public Entities	154	154	156	160	161	164	165	164	164	163	163	160	156	159
-Investor Owned Entities-														
13 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
14 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	263	277	272
15 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	472	0	472	472	472
17 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
18 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
19 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
-Other Entities-														
21 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Hermiston Power Project	630	630	630	630	630	630	630	630	0	630	630	630	630	630
24 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	22	22	22	22	22
25 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
26 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
27 Longview Fibre Cogen 1-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35
28 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
29 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
31 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
32 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
33 Total Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
-Cogeneration-														
34 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Public Entities	154	154	156	160	161	164	165	164	164	163	163	160	156	159
36 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	1113	1364	1352
37 Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
38 Total Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2934	2462	2648	2894	2886

**Table A-9: Regional Cogeneration
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal System-														
1 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-														
3 Georgia Pacific Toledo	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4 Georgia-Pacific Paper (Wauna)	12	12	14	18	20	23	24	23	23	22	22	19	14	18
5 Grays Harbor Paper (Grays Harbor Paper)	16	16	16	16	16	16	16	16	16	16	16	16	16	16
6 IP Energy Center (formerly WEYCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Klamath Cogeneration Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Longview Fibre Cogen 1-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Seneca Sawmill Cogen	19	19	19	19	19	19	19	19	19	19	19	19	19	19
10 Sierra Pacific Burlington	28	28	28	28	28	28	28	28	28	28	28	28	28	28
11 Simpson Tacoma CoGen	55	55	55	55	55	55	55	55	55	55	55	55	55	55
12 Total Public Entities	154	154	156	160	161	164	165	164	164	163	163	160	156	159
-Investor Owned Entities-														
13 Coyote Springs #1	231	231	239	247	254	258	259	256	252	248	248	243	236	231
14 Coyote Springs #2	273	273	279	294	299	301	302	300	297	294	294	0	0	272
15 Georgia-Pacific Paper (Camas)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Hermiston Cogeneration	472	472	472	472	472	472	472	472	472	472	0	472	472	472
17 Sumas Energy	132	132	133	136	138	140	140	139	138	137	137	135	133	132
18 Tenaska Gas Cogen	245	245	245	245	245	245	245	245	245	245	245	0	245	245
19 Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	850	1087	1352
-Other Entities-														
21 Coyote Springs #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Georgia-Pacific Paper (Wauna)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Hermiston Power Project	630	630	630	630	630	630	630	630	0	630	630	630	630	630
24 IP Energy Center (formerly WEYCO)	22	22	22	22	22	22	22	22	22	22	22	22	22	22
25 Klamath Cogeneration Project	484	484	484	484	484	484	484	484	484	484	484	484	484	484
26 Lakeview Biomass	27	27	27	27	27	27	27	27	0	27	27	27	27	27
27 Longview Fibre Cogen 1-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35
28 Sierra Pacific Aberdeen (Sierra Pacific)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
29 Simpson Tacoma CoGen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 SP Newsprint Cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104
31 Wah Chang (Albany, OR)	14	14	14	14	14	14	14	14	14	14	14	14	14	14
32 Weyerhaeuser Longview (Weyerhaeuser)	44	44	44	44	44	44	44	44	44	44	44	44	44	44
33 Total Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
-Cogeneration-														
34 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Public Entities	154	154	156	160	161	164	165	164	164	163	163	160	156	159
36 Investor-Owned Entities	1353	1353	1368	1394	1408	1416	1418	1412	1404	1396	924	850	1087	1352
37 Other Entities	1375	1375	1375	1375	1375	1375	1375	1375	718	1375	1375	1375	1375	1375
38 Total Cogeneration	2882	2882	2899	2929	2944	2955	2958	2952	2287	2934	2462	2385	2617	2886

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Table A-10
Large Thermal
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-10: Regional Large Thermal
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	58	58	58	58	58	0	58	58
2 Portland General Electric	378	378	378	378	378	378	378	378	378	378	378	0	378	378
3 San Diego Gas & Electric	86	86	86	86	86	86	86	86	86	86	86	0	86	86
4 Turlock Irrigation District	58	58	58	58	58	58	58	58	58	58	58	0	58	58
5 Boardman: Regional Total	580	580	580	580	580	580	580	580	580	580	580	0	580	580
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	0	670	670
7 Centralia #1: Regional Total	670	670	670	670	670	670	670	670	670	670	670	0	670	670
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	670	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	670	670	670	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	0	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	0	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	518	518	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	222	222	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	740	740	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

**Table A-10: Regional Large Thermal
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #4: Coal-														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Valmy #1: Coal-														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
-Valmy #2: Coal-														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
-Total Large Thermal-														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
47 Public Entities	58	58	58	58	58	58	58	58	58	58	58	58	0	58
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	4468	4468	4468	4468	4468	4468	3946	4314
49 Other Entities	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	1340
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	5746	6842

**Table A-10: Regional Large Thermal
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	58	58	58	58	58	0	58	58
2 Portland General Electric	378	378	378	378	378	378	378	378	378	378	378	0	378	378
3 San Diego Gas & Electric	86	86	86	86	86	86	86	86	86	86	86	0	86	86
4 Turlock Irrigation District	58	58	58	58	58	58	58	58	58	58	58	0	58	58
5 Boardman: Regional Total	580	580	580	580	580	580	580	580	580	580	580	0	580	580
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	670	670	670
7 Centralia #1: Regional Total	670	670	670	670	670	670	670	670	670	670	670	670	670	670
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	0	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	670	670	0	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	518	518	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	0	0	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	0	0	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	0	0	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	0	0	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	0	0	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	0	0	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

**Table A-10: Regional Large Thermal
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #4: Coal-														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Valmy #1: Coal-														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
-Valmy #2: Coal-														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
-Total Large Thermal-														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
47 Public Entities	58	58	58	58	58	58	58	58	58	58	58	0	58	58
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	4468	4468	4468	3728	3728	3946	4468	4468
49 Other Entities	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	1340	1340
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6256	6256	4616	5866	6996

**Table A-10: Regional Large Thermal
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	58	58	58	58	58	0	58	58
2 Portland General Electric	378	378	378	378	378	378	378	378	378	378	378	0	378	378
3 San Diego Gas & Electric	86	86	86	86	86	86	86	86	86	86	86	0	86	86
4 Turlock Irrigation District	58	58	58	58	58	58	58	58	58	58	58	0	58	58
5 Boardman: Regional Total	580	580	580	580	580	580	580	580	580	580	580	0	580	580
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	0	670	670
7 Centralia #1: Regional Total	670	670	670	670	670	670	670	670	670	670	670	0	670	670
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	670	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	670	670	670	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	0	0	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	0	0	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	0	0	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	0	0	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	0	0	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	0	0	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	0	0	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	222	222	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	740	740	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	0	0	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	0	0	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	530	0	0	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

**Table A-10: Regional Large Thermal
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Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
<i>-Jim Bridger #4: Coal-</i>														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
<i>-Valmy #1: Coal-</i>														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
<i>-Valmy #2: Coal-</i>														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
<i>-Total Large Thermal-</i>														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
47 Public Entities	58	58	58	58	58	58	58	58	58	58	58	58	0	58
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	4468	4468	4468	3950	3420	3262	4314	4468
49 Other Entities	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	1340	1340
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6478	5948	5062	6842	6996

**Table A-10: Regional Large Thermal
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	58	58	58	58	58	0	58	58
2 Portland General Electric	378	378	378	378	378	378	378	378	378	378	378	0	378	378
3 San Diego Gas & Electric	86	86	86	86	86	86	86	86	86	86	86	0	86	86
4 Turlock Irrigation District	58	58	58	58	58	58	58	58	58	58	58	0	58	58
5 Boardman: Regional Total	580	580	580	580	580	580	580	580	580	580	580	0	580	580
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	670	670	670
7 Centralia #1: Regional Total	670	670	670	670	670	670	670	670	670	670	670	670	670	670
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	0	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	670	670	0	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	0	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	0	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	518	518	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	222	222	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	740	740	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

**Table A-10: Regional Large Thermal
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #4: Coal-														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Valmy #1: Coal-														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
-Valmy #2: Coal-														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
-Total Large Thermal-														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
47 Public Entities	58	58	58	58	58	58	58	58	58	58	58	0	58	58
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	4468	4468	4468	4468	4468	3946	4314	4468
49 Other Entities	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	1340	1340
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	4616	5712	6996

**Table A-10: Regional Large Thermal
PNW Loads and Resource Study
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	58	58	58	58	58	0	58	58
2 Portland General Electric	378	378	378	378	378	378	378	378	378	378	378	0	378	378
3 San Diego Gas & Electric	86	86	86	86	86	86	86	86	86	86	86	0	86	86
4 Turlock Irrigation District	58	58	58	58	58	58	58	58	58	58	58	0	58	58
5 Boardman: Regional Total	580	580	580	580	580	580	580	580	580	580	580	0	580	580
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	0	0	670	670	670
7 Centralia #1: Regional Total	670	670	670	670	670	670	670	670	670	0	0	670	670	670
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	670	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	670	670	670	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	518	518	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	0	0	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	0	0	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	0	0	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	0	0	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	0	0	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	0	0	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	0	177	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	0	353	353	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	0	530	530	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

**Table A-10: Regional Large Thermal
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
<i>-Jim Bridger #4: Coal-</i>														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
<i>-Valmy #1: Coal-</i>														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
<i>-Valmy #2: Coal-</i>														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
<i>-Total Large Thermal-</i>														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
47 Public Entities	58	58	58	58	58	58	58	58	58	58	58	0	58	58
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	4468	4468	4468	3728	3198	3946	4468	4468
49 Other Entities	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	670	1340	1340	1340
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	5586	5056	6416	6996	6996

**Table A-10: Regional Large Thermal
PNW Loads and Resource Study
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	58	58	58	58	58	0	58	58
2 Portland General Electric	378	378	378	378	378	378	378	378	378	378	378	0	378	378
3 San Diego Gas & Electric	86	86	86	86	86	86	86	86	86	86	86	0	86	86
4 Turlock Irrigation District	58	58	58	58	58	58	58	58	58	58	58	0	58	58
5 Boardman: Regional Total	580	580	580	580	580	580	580	580	580	580	580	0	580	580
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	670	670	670
7 Centralia #1: Regional Total	670	670	670	670	670	670	670	670	670	670	670	670	670	670
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	0	0	670	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	0	0	670	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	0	0	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	0	0	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	0	0	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	0	0	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	0	0	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	0	0	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	0	0	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	222	222	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	740	740	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

**Table A-10: Regional Large Thermal
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Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
<i>-Jim Bridger #4: Coal-</i>														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
<i>-Valmy #1: Coal-</i>														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
<i>-Valmy #2: Coal-</i>														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
<i>-Total Large Thermal-</i>														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
47 Public Entities	58	58	58	58	58	58	58	58	58	58	58	0	58	58
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	4468	4468	4468	3950	3950	3792	4314	4468
49 Other Entities	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	670	1340	1340	1340
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	5808	5808	5132	5712	6996

**Table A-10: Regional Large Thermal
PNW Loads and Resource Study
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	58	58	58	58	58	0	58	58
2 Portland General Electric	378	378	378	378	378	378	378	378	378	378	378	0	378	378
3 San Diego Gas & Electric	86	86	86	86	86	86	86	86	86	86	86	0	86	86
4 Turlock Irrigation District	58	58	58	58	58	58	58	58	58	58	58	0	58	58
5 Boardman: Regional Total	580	580	580	580	580	580	580	580	580	580	580	0	580	580
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	0	670	670
7 Centralia #1: Regional Total	670	670	670	670	670	670	670	670	670	670	670	0	670	670
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	670	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	670	670	670	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	0	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	0	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	518	518	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	222	222	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	740	740	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	0	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	0	353	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	530	0	530	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

**Table A-10: Regional Large Thermal
PNW Loads and Resource Study
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Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
<i>-Jim Bridger #4: Coal-</i>														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
<i>-Valmy #1: Coal-</i>														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
<i>-Valmy #2: Coal-</i>														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
<i>-Total Large Thermal-</i>														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
47 Public Entities	58	58	58	58	58	58	58	58	58	58	58	58	0	58
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	4468	4468	4468	4468	4468	4468	3416	4314
49 Other Entities	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	1340
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	6996	5216	6842

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	58	58	58	58	58	0	58	58
2 Portland General Electric	378	378	378	378	378	378	378	378	378	378	378	0	378	378
3 San Diego Gas & Electric	86	86	86	86	86	86	86	86	86	86	86	0	86	86
4 Turlock Irrigation District	58	58	58	58	58	58	58	58	58	58	58	0	58	58
5 Boardman: Regional Total	580	580	580	580	580	580	580	580	580	580	580	0	580	580
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	670	670	670
7 Centralia #1: Regional Total	670	670	670	670	670	670	670	670	670	670	670	670	670	670
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	0	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	670	670	0	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	518	518	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	0	0	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	0	0	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	0	0	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	0	0	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	0	0	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	0	0	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #4: Coal-														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Valmy #1: Coal-														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
-Valmy #2: Coal-														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
-Total Large Thermal-														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
47 Public Entities	58	58	58	58	58	58	58	58	58	58	58	0	58	58
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	4468	4468	4468	3728	3728	3946	4468	4468
49 Other Entities	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	1340	1340
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6256	6256	4616	5866	6996

**Table A-10: Regional Large Thermal
PNW Loads and Resource Study
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Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	58	58	58	58	58	0	58	58
2 Portland General Electric	378	378	378	378	378	378	378	378	378	378	378	0	378	378
3 San Diego Gas & Electric	86	86	86	86	86	86	86	86	86	86	86	0	86	86
4 Turlock Irrigation District	58	58	58	58	58	58	58	58	58	58	58	0	58	58
5 Boardman: Regional Total	580	580	580	580	580	580	580	580	580	580	580	0	580	580
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	0	670	670
7 Centralia #1: Regional Total	670	670	670	670	670	670	670	670	670	670	670	0	670	670
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	670	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	670	670	670	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	0	0	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	0	0	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	0	0	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	0	0	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	0	0	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	0	0	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	0	0	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	222	222	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	740	740	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	0	0	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	0	0	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	530	0	0	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #4: Coal-														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Valmy #1: Coal-														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
-Valmy #2: Coal-														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
-Total Large Thermal-														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130
47 Public Entities	58	58	58	58	58	58	58	58	58	58	58	58	0	58
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	4468	4468	4468	3950	3420	3262	4314	4468
49 Other Entities	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	1340	1340
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6996	6996	6996	6996	6478	5948	5062	6842	6996

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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Boardman: Coal-														
1 Idaho Power Company	58	58	58	58	58	58	0	0	0	0	0	0	0	0
2 Portland General Electric	378	378	378	378	378	378	0	0	0	0	0	0	0	0
3 San Diego Gas & Electric	86	86	86	86	86	86	0	0	0	0	0	0	0	0
4 Turlock Irrigation District	58	58	58	58	58	58	0	0	0	0	0	0	0	0
5 Boardman: Regional Total	580	580	580	580	580	580	0	0	0	0	0	0	0	0
-Centralia #1: Coal-														
6 TransAlta Energy Marketing	670	670	670	670	670	0	0	0	0	0	0	0	0	0
7 Centralia #1: Regional Total	670	670	670	670	670	0	0	0	0	0	0	0	0	0
-Centralia #2: Coal-														
8 TransAlta Energy Marketing	670	670	670	670	670	670	670	670	670	670	670	0	670	670
9 Centralia #2: Regional Total	670	670	670	670	670	670	670	670	670	670	670	0	670	670
-Colstrip #1: Coal-														
10 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	0	154
12 Colstrip #1: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	0	154
-Colstrip #2: Coal-														
13 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Puget Sound Energy	154	154	154	154	154	154	154	154	154	154	154	154	154	154
15 Colstrip #2: Regional Total	154	154	154	154	154	154	154	154	154	154	154	154	154	154
-Colstrip #3: Coal-														
16 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
17 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
19 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
20 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
21 Colstrip #3: Regional Total	518	518	518	518	518	518	518	518	518	518	518	518	518	518
-Colstrip #4: Coal-														
22 Avista Corp (WWP Division)	111	111	111	111	111	111	111	111	111	111	111	111	111	111
23 Northwestern Energy LLC (MPC)	222	222	222	222	222	222	222	222	222	222	222	222	222	222
24 Pacific Power	74	74	74	74	74	74	74	74	74	74	74	74	74	74
25 Portland General Electric	148	148	148	148	148	148	148	148	148	148	148	148	148	148
26 Puget Sound Energy	185	185	185	185	185	185	185	185	185	185	185	185	185	185
27 Colstrip #4: Regional Total	740	740	740	740	740	740	740	740	740	740	740	740	740	740
-Columbia Generating Station: Uranium-														
28 BPA - Power Business	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
29 Columbia Generating Station: Regional Total	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
-Jim Bridger #1: Coal-														
30 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
31 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
32 Jim Bridger #1: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #2: Coal-														
33 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
34 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
35 Jim Bridger #2: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #3: Coal-														
36 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
37 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353

Table A-10: Regional Large Thermal
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
38 Jim Bridger #3: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Jim Bridger #4: Coal-														
39 Idaho Power Company	177	177	177	177	177	177	177	177	177	177	177	177	177	177
40 Pacific Power	353	353	353	353	353	353	353	353	353	353	353	353	353	353
41 Jim Bridger #4: Regional Total	530	530	530	530	530	530	530	530	530	530	530	530	530	530
-Valmy #1: Coal-														
42 Idaho Power Company	127	127	127	127	127	127	127	127	127	127	127	127	127	127
43 Valmy #1: Regional Total	127	127	127	127	127	127	127	127	127	127	127	127	127	127
-Valmy #2: Coal-														
44 Idaho Power Company	134	134	134	134	134	134	134	134	134	134	134	134	134	134
45 Valmy #2: Regional Total	134	134	134	134	134	134	134	134	134	134	134	134	134	134
-Total Large Thermal-														
46 Federal System	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	0	0	1130
47 Public Entities	58	58	58	58	58	58	0	0	0	0	0	0	0	0
48 Investor-Owned Entities	4468	4468	4468	4468	4468	4468	3946	3946	3946	3946	3946	3946	3792	3946
49 Other Entities	1340	1340	1340	1340	1340	670	670	670	670	670	670	0	670	670
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6996	6996	6996	6996	6996	6326	5746	5746	5746	5746	5746	3946	4462	5746

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Table A-15
Canadian Entitlement Return for Canada
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	53	53	53	53	53	53	53	53	53	52	52	52	52	52
3 Priest Rapids: Regional Totals	53	53	53	53	53	53	53	53	53	52	52	52	52	52
-Wanapum CER for Canada-														
4 GCPD to BPA	51	51	51	51	51	51	51	51	51	50	50	50	50	50
5 Wanapum: Regional Totals	51	51	51	51	51	51	51	51	51	50	50	50	50	50
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	20	20	20	20	20	20	20	20	20	20	20	20	20	20
7 Rock Island P.H. #1: Regional Totals	20	20	20	20	20	20	20	20	20	20	20	20	20	20
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	13	13	13	13	13	13	13	13	13	13	13	13	13	13
9 Rock Island P.H. #2: Regional Totals	13	13	13	13	13	13	13	13	13	13	13	13	13	13
-Rocky Reach CER for Canada-														
10 CHPD to BPA	68	68	68	68	68	68	68	68	68	67	67	67	67	67
11 Rocky Reach: Regional Totals	68	68	68	68	68	68	68	68	68	67	67	67	67	67
-Wells CER for Canada-														
12 DOPD to BPA	44	44	44	44	44	44	44	44	44	43	43	43	43	43
13 Wells: Regional Totals	44	44	44	44	44	44	44	44	44	43	43	43	43	43
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	249	249	249	249	249	249	249	249	249	245	245	245	245	245
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	249	249	249	249	249	249	249	249	249	245	245	245	245	245

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	52	52	52	52	52	52	52	52	52	51	51	51	51	51
3 Priest Rapids: Regional Totals	52	52	52	52	52	52	52	52	52	51	51	51	51	51
-Wanapum CER for Canada-														
4 GCPD to BPA	50	50	50	50	50	50	50	50	50	49	49	49	49	49
5 Wanapum: Regional Totals	50	50	50	50	50	50	50	50	50	49	49	49	49	49
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	20	20	20	20	20	20	20	20	20	19	19	19	19	19
7 Rock Island P.H. #1: Regional Totals	20	20	20	20	20	20	20	20	20	19	19	19	19	19
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	13	13	13	13	13	13	13	13	13	12	12	12	12	12
9 Rock Island P.H. #2: Regional Totals	13	13	13	13	13	13	13	13	13	12	12	12	12	12
-Rocky Reach CER for Canada-														
10 CHPD to BPA	67	67	67	67	67	67	67	67	67	66	66	66	66	66
11 Rocky Reach: Regional Totals	67	67	67	67	67	67	67	67	67	66	66	66	66	66
-Wells CER for Canada-														
12 DOPD to BPA	43	43	43	43	43	43	43	43	43	42	42	42	42	42
13 Wells: Regional Totals	43	43	43	43	43	43	43	43	43	42	42	42	42	42
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	245	245	245	245	245	245	245	245	245	239	239	239	239	239
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	245	245	245	245	245	245	245	245	245	239	239	239	239	239

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	51	51	51	51	51	51	51	51	51	51	51	51	51	51
3 Priest Rapids: Regional Totals	51	51	51	51	51	51	51	51	51	51	51	51	51	51
-Wanapum CER for Canada-														
4 GCPD to BPA	49	49	49	49	49	49	49	49	49	49	49	49	49	49
5 Wanapum: Regional Totals	49	49	49	49	49	49	49	49	49	49	49	49	49	49
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	19	19	19	19	19	19	19	19	19	19	19	19	19	19
7 Rock Island P.H. #1: Regional Totals	19	19	19	19	19	19	19	19	19	19	19	19	19	19
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9 Rock Island P.H. #2: Regional Totals	12	12	12	12	12	12	12	12	12	12	12	12	12	12
-Rocky Reach CER for Canada-														
10 CHPD to BPA	66	66	66	66	66	66	66	66	66	65	65	65	65	65
11 Rocky Reach: Regional Totals	66	66	66	66	66	66	66	66	66	65	65	65	65	65
-Wells CER for Canada-														
12 DOPD to BPA	42	42	42	42	42	42	42	42	42	42	42	42	42	42
13 Wells: Regional Totals	42	42	42	42	42	42	42	42	42	42	42	42	42	42
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	239	239	239	239	239	239	239	239	239	238	238	238	238	238
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	239	239	239	239	239	239	239	239	239	238	238	238	238	238

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	51	51	51	51	51	51	51	51	51	51	51	51	51	51
3 Priest Rapids: Regional Totals	51	51	51	51	51	51	51	51	51	51	51	51	51	51
-Wanapum CER for Canada-														
4 GCPD to BPA	49	49	49	49	49	49	49	49	49	49	49	49	49	49
5 Wanapum: Regional Totals	49	49	49	49	49	49	49	49	49	49	49	49	49	49
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	19	19	19	19	19	19	19	19	19	19	19	19	19	19
7 Rock Island P.H. #1: Regional Totals	19	19	19	19	19	19	19	19	19	19	19	19	19	19
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9 Rock Island P.H. #2: Regional Totals	12	12	12	12	12	12	12	12	12	12	12	12	12	12
-Rocky Reach CER for Canada-														
10 CHPD to BPA	65	65	65	65	65	65	65	65	65	65	65	65	65	65
11 Rocky Reach: Regional Totals	65	65	65	65	65	65	65	65	65	65	65	65	65	65
-Wells CER for Canada-														
12 DOPD to BPA	42	42	42	42	42	42	42	42	42	41	41	41	41	41
13 Wells: Regional Totals	42	42	42	42	42	42	42	42	42	41	41	41	41	41
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	238	238	238	238	238	238	238	238	238	237	237	237	237	237
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	238	238	238	238	238	238	238	238	238	237	237	237	237	237

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	51	51	51	51	51	51	51	51	51	50	50	50	50	50
3 Priest Rapids: Regional Totals	51	51	51	51	51	51	51	51	51	50	50	50	50	50
-Wanapum CER for Canada-														
4 GCPD to BPA	49	49	49	49	49	49	49	49	49	49	49	49	49	49
5 Wanapum: Regional Totals	49	49	49	49	49	49	49	49	49	49	49	49	49	49
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	19	19	19	19	19	19	19	19	19	19	19	19	19	19
7 Rock Island P.H. #1: Regional Totals	19	19	19	19	19	19	19	19	19	19	19	19	19	19
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9 Rock Island P.H. #2: Regional Totals	12	12	12	12	12	12	12	12	12	12	12	12	12	12
-Rocky Reach CER for Canada-														
10 CHPD to BPA	65	65	65	65	65	65	65	65	65	64	64	64	64	64
11 Rocky Reach: Regional Totals	65	65	65	65	65	65	65	65	65	64	64	64	64	64
-Wells CER for Canada-														
12 DOPD to BPA	41	41	41	41	41	41	41	41	41	41	41	41	41	41
13 Wells: Regional Totals	41	41	41	41	41	41	41	41	41	41	41	41	41	41
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	237	237	237	237	237	237	237	237	237	235	235	235	235	235
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	237	237	237	237	237	237	237	237	237	235	235	235	235	235

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	50	50	50	50	50	50	50	50	50	50	50	50	50	50
3 Priest Rapids: Regional Totals	50	50	50	50	50	50	50	50	50	50	50	50	50	50
-Wanapum CER for Canada-														
4 GCPD to BPA	49	49	49	49	49	49	49	49	49	48	48	48	48	48
5 Wanapum: Regional Totals	49	49	49	49	49	49	49	49	49	48	48	48	48	48
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	19	19	19	19	19	19	19	19	19	19	19	19	19	19
7 Rock Island P.H. #1: Regional Totals	19	19	19	19	19	19	19	19	19	19	19	19	19	19
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9 Rock Island P.H. #2: Regional Totals	12	12	12	12	12	12	12	12	12	12	12	12	12	12
-Rocky Reach CER for Canada-														
10 CHPD to BPA	64	64	64	64	64	64	64	64	64	64	64	64	64	64
11 Rocky Reach: Regional Totals	64	64	64	64	64	64	64	64	64	64	64	64	64	64
-Wells CER for Canada-														
12 DOPD to BPA	41	41	41	41	41	41	41	41	41	41	41	41	41	41
13 Wells: Regional Totals	41	41	41	41	41	41	41	41	41	41	41	41	41	41
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	235	235	235	235	235	235	235	235	235	234	234	234	234	234
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	235	235	235	235	235	235	235	235	235	234	234	234	234	234

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	50	50	50	50	50	50	50	50	50	49	49	49	49	49
3 Priest Rapids: Regional Totals	50	50	50	50	50	50	50	50	50	49	49	49	49	49
-Wanapum CER for Canada-														
4 GCPD to BPA	48	48	48	48	48	48	48	48	48	48	48	48	48	48
5 Wanapum: Regional Totals	48	48	48	48	48	48	48	48	48	48	48	48	48	48
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	19	19	19	19	19	19	19	19	19	19	19	19	19	19
7 Rock Island P.H. #1: Regional Totals	19	19	19	19	19	19	19	19	19	19	19	19	19	19
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9 Rock Island P.H. #2: Regional Totals	12	12	12	12	12	12	12	12	12	12	12	12	12	12
-Rocky Reach CER for Canada-														
10 CHPD to BPA	64	64	64	64	64	64	64	64	64	63	63	63	63	63
11 Rocky Reach: Regional Totals	64	64	64	64	64	64	64	64	64	63	63	63	63	63
-Wells CER for Canada-														
12 DOPD to BPA	41	41	41	41	41	41	41	41	41	40	40	40	40	40
13 Wells: Regional Totals	41	41	41	41	41	41	41	41	41	40	40	40	40	40
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	234	234	234	234	234	234	234	234	234	231	231	231	231	231
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	234	234	234	234	234	234	234	234	234	231	231	231	231	231

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	49	49	49	49	49	49	49	49	49	49	49	49	49	49
3 Priest Rapids: Regional Totals	49	49	49	49	49	49	49	49	49	49	49	49	49	49
-Wanapum CER for Canada-														
4 GCPD to BPA	48	48	48	48	48	48	48	48	48	47	47	47	47	47
5 Wanapum: Regional Totals	48	48	48	48	48	48	48	48	48	47	47	47	47	47
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	19	19	19	19	19	19	19	19	19	18	18	18	18	18
7 Rock Island P.H. #1: Regional Totals	19	19	19	19	19	19	19	19	19	18	18	18	18	18
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9 Rock Island P.H. #2: Regional Totals	12	12	12	12	12	12	12	12	12	12	12	12	12	12
-Rocky Reach CER for Canada-														
10 CHPD to BPA	63	63	63	63	63	63	63	63	63	62	62	62	62	62
11 Rocky Reach: Regional Totals	63	63	63	63	63	63	63	63	63	62	62	62	62	62
-Wells CER for Canada-														
12 DOPD to BPA	40	40	40	40	40	40	40	40	40	40	40	40	40	40
13 Wells: Regional Totals	40	40	40	40	40	40	40	40	40	40	40	40	40	40
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	231	231	231	231	231	231	231	231	231	228	228	228	228	228
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	231	231	231	231	231	231	231	231	231	228	228	228	228	228

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	49	49	49	49	49	49	49	49	49	48	48	48	48	48
3 Priest Rapids: Regional Totals	49	49	49	49	49	49	49	49	49	48	48	48	48	48
-Wanapum CER for Canada-														
4 GCPD to BPA	47	47	47	47	47	47	47	47	47	47	47	47	47	47
5 Wanapum: Regional Totals	47	47	47	47	47	47	47	47	47	47	47	47	47	47
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	18	18	18	18	18	18	18	18	18	18	18	18	18	18
7 Rock Island P.H. #1: Regional Totals	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9 Rock Island P.H. #2: Regional Totals	12	12	12	12	12	12	12	12	12	12	12	12	12	12
-Rocky Reach CER for Canada-														
10 CHPD to BPA	62	62	62	62	62	62	62	62	62	62	62	62	62	62
11 Rocky Reach: Regional Totals	62	62	62	62	62	62	62	62	62	62	62	62	62	62
-Wells CER for Canada-														
12 DOPD to BPA	40	40	40	40	40	40	40	40	40	39	39	39	39	39
13 Wells: Regional Totals	40	40	40	40	40	40	40	40	40	39	39	39	39	39
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	228	228	228	228	228	228	228	228	228	226	226	226	226	226
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	228	228	228	228	228	228	228	228	228	226	226	226	226	226

**Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-BPA Canada-														
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-														
2 GCPD to BPA	48	48	48	48	48	48	48	48	48	48	48	48	48	48
3 Priest Rapids: Regional Totals	48	48	48	48	48	48	48	48	48	48	48	48	48	48
-Wanapum CER for Canada-														
4 GCPD to BPA	47	47	47	47	47	47	47	47	47	46	46	46	46	46
5 Wanapum: Regional Totals	47	47	47	47	47	47	47	47	47	46	46	46	46	46
-Rock Island P.H. #1 CER for Canada-														
6 CHPD to BPA	18	18	18	18	18	18	18	18	18	18	18	18	18	18
7 Rock Island P.H. #1: Regional Totals	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Rock Island P.H. #2 CER for Canada-														
8 CHPD to BPA	12	12	12	12	12	12	12	12	12	11	11	11	11	11
9 Rock Island P.H. #2: Regional Totals	12	12	12	12	12	12	12	12	12	11	11	11	11	11
-Rocky Reach CER for Canada-														
10 CHPD to BPA	62	62	62	62	62	62	62	62	62	61	61	61	61	61
11 Rocky Reach: Regional Totals	62	62	62	62	62	62	62	62	62	61	61	61	61	61
-Wells CER for Canada-														
12 DOPD to BPA	39	39	39	39	39	39	39	39	39	39	39	39	39	39
13 Wells: Regional Totals	39	39	39	39	39	39	39	39	39	39	39	39	39	39
-Total CER For Canada-														
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	226	226	226	226	226	226	226	226	226	223	223	223	223	223
16 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Total CER For Canada	226	226	226	226	226	226	226	226	226	223	223	223	223	223

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Table A-16
Intra-Regional Transfers
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Intra-Regional Transfers-														
1 AVWP To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 AVWP To PGE CapS	150	150	150	150	150	150	150	150	150	150	150	150	150	150
3 BPA To AVWP WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA To AVWP WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
5 BPA To CCPD SFIBlk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA To COPD PwrS	20	22	17	16	18	16	18	16	21	28	28	25	25	20
7 BPA To EMPD PwrS	4.7	5	4	3.6	4.1	3.7	4.2	3.6	4.9	6.5	6.4	5.7	5.8	4.6
8 BPA To Other Entities	519	519	325	175	175	175	225	225	225	300	300	300	300	0
9 BPA To PPL PwrS	130	130	132	0	0	0	0	0	0	0	0	0	0	0
10 BPA To PPL PwrS	0	0	0	267	300	398	400	335	336	337	337	162	108	130
11 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34
13 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 BPA To PPL CapS	575	575	0	0	0	0	0	0	0	0	0	0	0	0
16 BPA To PSE WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 BPA To PSE WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
18 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
19 BPA To SHPD PwrS	6.3	6.6	5.3	4.9	5.4	5	5.6	4.8	6.6	8.6	8.5	7.6	7.7	6.1
20 BPA To TBL PwrS	9.1	9.1	9.1	0	0	0	0	0	0	0	0	0	0	0
21 BPA To TBL PwrS	0	0	0	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
22 CCPD To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 CIDF To UPL PwrS	14	14	0.5	0	0	0	0	0	0	0	0	12	18	20
24 COPD To BPA PwrS	65	65	65	65	65	65	65	65	65	65	65	65	65	65
25 DOPD To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 EMPD To BPA PwrS	15	15	15	15	15	15	15	15	15	15	15	15	15	15
27 EWEB To PGE CapS	10	10	10	10	10	10	10	10	10	10	10	10	10	10
28 GCPD To AVWP PwrS	20	20	19	0	0	0	0	0	0	0	0	0	0	0
29 GCPD To EWEB PwrS	5.5	5.5	5.3	0	0	0	0	0	0	0	0	0	0	0
30 GCPD To FGRV PwrS	2	2	1	0	0	0	0	0	0	0	0	0	0	0
31 GCPD To FREC PwrS	1	1	1	0	0	0	0	0	0	0	0	0	0	0
32 GCPD To KITT PwrS	1	1	0	0	0	0	0	0	0	0	0	0	0	0
33 GCPD To KOOT PwrS	1	1	1	0	0	0	0	0	0	0	0	0	0	0
34 GCPD To LVE PwrS	1	1	1	0	0	0	0	0	0	0	0	0	0	0
35 GCPD To LVE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 GCPD To MCMN PwrS	2	2	1	0	0	0	0	0	0	0	0	0	0	0
37 GCPD To MTRF PwrS	2	2	1	0	0	0	0	0	0	0	0	0	0	0
38 GCPD To PGE PwrS	45	45	43	0	0	0	0	0	0	0	0	0	0	0
39 GCPD To PPL PwrS	45	45	43	0	0	0	0	0	0	0	0	0	0	0
40 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
41 GCPD To PSE PwrS	26	26	25	0	0	0	0	0	0	0	0	0	0	0
42 GCPD To TPU PwrS	11	11	11	0	0	0	0	0	0	0	0	0	0	0
43 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
44 NWCP To PSE PwrS	4	4	4.7	4.9	4.9	4.5	4	4	4.8	4	4	4.4	4.3	4.7
45 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
46 Other Entities To BPA	492	492	140	22	322	322	322	322	322	322	322	22	22	22
47 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
48 Other Entities To DOPD	12	12	12	19	33	33	33	33	19	12	12	12	12	12
49 Other Entities To PGE	125	125	125	100	100	100	100	100	100	100	100	100	100	100
50 PGE To AVWP PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 PGE To PPL Cove Repl	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
52 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 PPL To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 PPL To BPA S/Pwr/X	0	0	57	0	0	0	0	0	0	0	0	0	0	0
56 PPL To BPA S/Pwr/X	0	0	0	57	57	0	0	0	0	0	0	0	0	0
57 PSE To AVWP PwrS	0	0	0	2.4	0	0	0	0	0	0	0	0	0	0
58 PSE To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
60 SHPD To BPA PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20
61 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
62 TAUC To AVWP PwrS	201	201	201	201	201	201	201	201	201	201	201	100	201	201

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
63 Total Contracts	2753	2755	1664	1361	1876	1914	1969	1900	1807	1889	1889	1239	1327	1043
-Total Contracts Out-														
64 Federal System	1265	1266	493	475	682	778	833	764	685	771	771	509	490	204
65 Public Entities	384	384	359	192	192	192	192	192	192	192	192	204	210	212
66 Investor-Owned Entities	464	464	521	523	567	510	510	510	510	514	514	363	464	464
67 Other Entities	641	641	291	170	434	434	434	434	420	413	413	163	163	163
68 Total Contracts Out	2753	2755	1664	1361	1876	1914	1969	1900	1807	1889	1889	1239	1327	1043
-Total Contracts In-														
69 Federal System	612	612	317	200	496	439	439	439	439	442	442	142	142	142
70 Public Entities	162	164	133	116	133	131	134	130	125	128	128	123	123	116
71 Investor-Owned Entities	1563	1563	897	855	1056	1154	1156	1090	1003	1004	1004	658	746	769
72 Other Entities	416	416	316	190	190	190	240	240	240	316	316	316	316	16
73 Total Contracts In	2753	2755	1664	1361	1876	1914	1969	1900	1807	1889	1889	1239	1327	1043

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Intra-Regional Transfers-														
1 AVWP To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 AVWP To PGE CapS	150	150	150	150	150	150	150	150	150	150	150	150	150	150
3 BPA To AVWP WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
4 BPA To COPD PwrS	20	22	17	16	18	16	18	16	21	26	29	25	25	19
5 BPA To EMPD PwrS	4.7	5	4	3.6	4.1	3.8	4.2	3.7	4.9	6.1	6.6	5.7	5.8	4.5
6 BPA To PPL PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
7 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	35	34
8 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 BPA To PSE WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
10 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
11 BPA To SHPD PwrS	6.3	6.6	5.4	4.8	5.5	5	5.5	4.9	6.6	8.2	8.8	7.6	7.7	6
12 BPA To TBL PwrS	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
13 CIDF To UPL PwrS	14	14	0.5	0	0	0	0	0	0	0	0	12	18	20
14 COPD To BPA PwrS	65	65	65	65	65	65	65	65	65	65	65	65	65	65
15 DOPD To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 EMPD To BPA PwrS	15	15	15	15	15	15	15	15	15	15	15	15	15	15
17 EWEB To PGE CapS	10	10	10	10	10	10	10	10	10	10	10	10	10	10
18 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
19 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
20 NWCP To PSE PwrS	4	4	4.7	4.9	4.9	4.5	0	0	0	0	0	0	0	0
21 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
22 Other Entities To BPA	22	22	22	58	358	358	358	358	358	358	358	58	58	58
23 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
24 Other Entities To DOPD	14	14	14	22	39	39	39	39	22	14	14	14	14	14
25 Other Entities To PGE	100	100	100	100	100	100	100	100	100	100	100	100	100	100
26 PGE To AVWP PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 PGE To PPL Cove Repl	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
28 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0
30 PSE To AVWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 PSE To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
33 SHPD To BPA PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20
34 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
35 TAUC To AVWP PwrS	201	201	201	201	201	201	201	201	201	201	201	201	100	201
36 Total Contracts	1005	1007	1012	1188	1709	1781	1781	1713	1617	1621	1624	1073	961	1075
-Total Contracts Out-														
37 Federal System	171	172	168	300	507	603	608	540	460	469	472	209	191	203
38 Public Entities	206	206	193	192	192	192	188	188	188	188	188	200	206	208
39 Investor-Owned Entities	464	464	487	487	533	510	510	510	510	514	514	464	363	464
40 Other Entities	165	165	165	209	476	476	476	476	459	451	451	201	201	201
41 Total Contracts Out	1005	1007	1012	1188	1709	1781	1781	1713	1617	1621	1624	1073	961	1075
-Total Contracts In-														
42 Federal System	142	142	165	201	498	475	475	475	475	478	478	178	178	178
43 Public Entities	118	120	114	119	139	137	140	137	128	128	131	125	126	117
44 Investor-Owned Entities	729	729	718	852	1056	1154	1152	1086	998	1000	1000	755	641	764
45 Other Entities	16	16	16	16	16	16	16	16	16	16	16	16	16	16
46 Total Contracts In	1005	1007	1012	1188	1709	1781	1781	1713	1617	1621	1624	1073	961	1075

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Intra-Regional Transfers-														
1 AVWP To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 AVWP To PGE CapS	150	150	150	150	150	150	150	150	150	150	150	150	150	150
3 BPA To AVWP WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
4 BPA To COPD PwrS	21	22	17	16	18	16	18	16	21	26	29	25	25	19
5 BPA To EMPD PwrS	4.8	5	4	3.6	4.1	3.8	4.2	3.7	4.9	6.1	6.6	5.7	5.8	4.5
6 BPA To PPL PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
7 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 BPA To PSE WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
10 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
11 BPA To SHPD PwrS	6.4	6.6	5.4	4.8	5.5	5	5.5	4.9	6.6	8.2	8.8	7.6	7.7	6
12 BPA To TBL PwrS	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
13 CIDF To UPL PwrS	15	15	0.3	0	0	0	0	0	0	0	0	12	18	20
14 COPD To BPA PwrS	65	65	65	65	65	65	65	65	65	65	65	65	65	65
15 DOPD To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 EMPD To BPA PwrS	15	15	15	15	15	15	15	15	15	15	15	15	15	15
17 EWEB To PGE CapS	10	10	10	10	10	10	10	10	10	10	10	10	0	0
18 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
19 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
20 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
21 Other Entities To BPA	58	58	58	0	250	250	250	250	250	250	250	0	0	0
22 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
23 Other Entities To DOPD	16	16	16	24	42	42	42	42	24	16	16	16	16	16
24 Other Entities To PGE	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25 PGE To AVWP PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 PGE To PPL Cove Repl	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
27 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 PPL To BPA S/Pwr/X	0	0	23	23	23	0	0	0	0	0	0	0	0	0
29 PSE To AVWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 PSE To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
32 SHPD To BPA PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20
33 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
34 TAUC To AVWP PwrS	201	201	201	201	201	201	201	201	201	201	201	100	201	201
35 Total Contracts	1040	1041	1045	1127	1599	1672	1676	1608	1511	1515	1518	917	960	975
-Total Contracts Out-														
36 Federal System	171	172	168	300	507	603	608	540	460	469	472	209	156	169
37 Public Entities	202	202	188	188	188	188	188	188	188	188	188	200	196	198
38 Investor-Owned Entities	464	464	487	487	533	510	510	510	510	514	514	363	464	464
39 Other Entities	203	203	203	153	371	371	371	371	353	345	345	145	145	145
40 Total Contracts Out	1040	1041	1045	1127	1599	1672	1676	1608	1511	1515	1518	917	960	975
-Total Contracts In-														
41 Federal System	178	178	201	143	390	367	367	367	367	370	370	120	120	120
42 Public Entities	121	122	116	121	142	140	143	140	130	130	133	127	128	119
43 Investor-Owned Entities	725	725	713	848	1052	1150	1152	1086	998	1000	1000	654	697	720
44 Other Entities	16	16	16	16	16	16	16	16	16	16	16	16	16	16
45 Total Contracts In	1040	1041	1045	1127	1599	1672	1676	1608	1511	1515	1518	917	960	975

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Intra-Regional Transfers-														
1 AVWP To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 AVWP To PGE CapS	150	150	150	150	150	150	150	150	150	150	150	150	150	150
3 BPA To AVWP WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
4 BPA To COPD PwrS	21	22	17	16	18	16	18	16	21	26	29	25	25	20
5 BPA To EMPD PwrS	4.8	5.2	3.9	3.6	4.1	3.7	4.2	3.7	4.9	6.1	6.6	5.7	5.7	4.5
6 BPA To PPL PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
7 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
9 BPA To SHPD PwrS	6.4	6.9	5.2	4.8	5.5	4.9	5.6	4.9	6.6	8.2	8.8	7.7	7.6	6.1
10 BPA To TBL PwrS	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
11 CIDF To UPL PwrS	15	15	0	0	0	0	0	0	0	0	0	12	19	20
12 COPD To BPA PwrS	65	65	65	65	65	65	65	65	65	65	65	65	65	65
13 DOPD To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 EMPD To BPA PwrS	15	15	15	15	15	15	15	15	15	15	15	15	15	15
15 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
16 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
17 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
18 Other Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
20 Other Entities To DOPD	18	18	18	27	47	47	47	47	27	18	18	18	18	18
21 Other Entities To PGE	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22 PGE To AVWP PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 PGE To PPL Cove Repl	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
24 PSE To AVWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PSE To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
27 SHPD To BPA PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20
28 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
29 TAUC To AVWP PwrS	201	201	201	201	201	201	201	201	201	201	201	201	100	201
30 Total Contracts	974	977	955	1097	1321	1416	1422	1353	1254	1257	1260	1010	861	978
-Total Contracts Out-														
31 Federal System	171	174	167	300	508	603	608	540	460	469	472	209	155	169
32 Public Entities	192	192	178	178	178	178	178	178	178	178	178	189	196	197
33 Investor-Owned Entities	464	464	464	464	460	460	460	460	460	464	464	464	363	464
34 Other Entities	147	147	147	156	176	176	176	176	156	147	147	147	147	147
35 Total Contracts Out	974	977	955	1097	1321	1416	1422	1353	1254	1257	1260	1010	861	978
-Total Contracts In-														
36 Federal System	120	120	120	120	117	117	117	117	117	120	120	120	120	120
37 Public Entities	123	126	117	124	148	144	148	145	133	132	135	129	129	121
38 Investor-Owned Entities	715	715	702	838	1042	1140	1142	1076	988	990	990	744	597	720
39 Other Entities	16	16	16	16	16	16	16	16	16	16	16	16	16	16
40 Total Contracts In	974	977	955	1097	1321	1416	1422	1353	1254	1257	1260	1010	861	978

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Intra-Regional Transfers-														
1 AVWP To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 AVWP To PGE CapS	150	150	150	150	150	150	150	150	150	150	150	150	150	150
3 BPA To AVWP WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
4 BPA To COPD PwrS	21	22	17	16	18	16	18	16	21	27	29	25	25	20
5 BPA To EMPD PwrS	4.8	5.2	3.9	3.6	4.1	3.7	4.2	3.6	4.9	6.2	6.6	5.7	5.7	4.6
6 BPA To PPL PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
7 BPA To PSE WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
8 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
9 BPA To SHPD PwrS	6.4	6.9	5.2	4.8	5.5	4.9	5.6	4.8	6.6	8.3	8.8	7.7	7.6	6.1
10 BPA To TBL PwrS	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
11 CIDF To UPL PwrS	15	15	0.3	0	0	0	0	0	0	0	0	12	19	20
12 COPD To BPA PwrS	65	65	65	65	65	65	65	65	65	65	65	65	65	65
13 DOPD To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 EMPD To BPA PwrS	15	15	15	15	15	15	15	15	15	15	15	15	15	15
15 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
16 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
17 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
18 Other Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
20 Other Entities To DOPD	20	20	20	30	53	53	53	53	30	20	20	20	20	20
21 Other Entities To PGE	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22 PGE To AVWP PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 PGE To PPL Cove Repl	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
24 PSE To AVWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PSE To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
27 SHPD To BPA PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20
28 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
29 TAUC To AVWP PwrS	201	201	201	201	201	201	201	201	201	100	100	201	201	201
30 Total Contracts	976	978	957	1100	1327	1422	1428	1359	1257	1159	1162	1012	964	980
-Total Contracts Out-														
31 Federal System	171	174	167	300	508	603	608	539	460	470	472	209	155	170
32 Public Entities	192	192	178	178	178	178	178	178	178	178	178	190	196	197
33 Investor-Owned Entities	464	464	464	464	460	460	460	460	460	363	363	464	464	464
34 Other Entities	149	149	149	159	182	182	182	182	159	149	149	149	149	149
35 Total Contracts Out	976	978	957	1100	1327	1422	1428	1359	1257	1159	1162	1012	964	980
-Total Contracts In-														
36 Federal System	120	120	120	120	117	117	117	117	117	120	120	120	120	120
37 Public Entities	125	128	119	127	154	150	154	150	136	134	137	131	131	124
38 Investor-Owned Entities	715	715	703	838	1042	1140	1142	1076	988	889	889	744	697	720
39 Other Entities	16	16	16	16	16	16	16	16	16	16	16	16	16	16
40 Total Contracts In	976	978	957	1100	1327	1422	1428	1359	1257	1159	1162	1012	964	980

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Intra-Regional Transfers-														
1 AVWP To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 AVWP To PGE CapS	150	150	150	150	150	150	0	0	0	0	0	0	0	0
3 BPA To AVWP WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
4 BPA To COPD PwrS	20	22	17	16	0	0	0	0	0	0	0	0	0	0
5 BPA To EMPD PwrS	4.7	5	4	3.6	0	0	0	0	0	0	0	0	0	0
6 BPA To PPL PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
7 BPA To PSE WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
8 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
9 BPA To SHPD PwrS	6.3	6.6	5.3	4.8	0	0	0	0	0	0	0	0	0	0
10 BPA To TBL PwrS	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
11 CIDF To UPL PwrS	15	15	0.3	0	0	0	0	0	0	0	0	12	19	20
12 COPD To BPA PwrS	65	65	65	0	0	0	0	0	0	0	0	0	0	0
13 DOPD To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 EMPD To BPA PwrS	15	15	15	0	0	0	0	0	0	0	0	0	0	0
15 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
16 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
17 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
18 Other Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
20 Other Entities To DOPD	7	7	7	11	19	19	19	19	11	7	7	7	7	7
21 Other Entities To PGE	100	100	100	0	0	0	0	0	0	0	0	0	0	0
22 PGE To AVWP PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 PGE To PPL Cove Repl	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
24 PSE To AVWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PSE To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
27 SHPD To BPA PwrS	20	20	20	0	0	0	0	0	0	0	0	0	0	0
28 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
29 TAUC To AVWP PwrS	201	201	201	201	201	201	201	201	201	201	201	201	201	201
30 Total Contracts	962	964	945	881	1066	1164	1016	951	855	855	855	610	563	586
-Total Contracts Out-														
31 Federal System	171	172	168	300	480	578	580	515	427	428	428	171	117	139
32 Public Entities	192	192	178	78	78	78	78	78	78	78	78	89	96	97
33 Investor-Owned Entities	464	464	464	364	360	360	210	210	210	214	214	214	214	214
34 Other Entities	136	136	136	140	148	148	148	148	140	136	136	136	136	136
35 Total Contracts Out	962	964	945	881	1066	1164	1016	951	855	855	855	610	563	586
-Total Contracts In-														
36 Federal System	120	120	120	20	17	17	17	17	17	20	20	20	20	20
37 Public Entities	112	113	106	108	92	92	92	92	84	80	80	80	80	80
38 Investor-Owned Entities	715	715	703	738	942	1040	892	826	738	740	740	494	447	470
39 Other Entities	16	16	16	16	16	16	16	16	16	16	16	16	16	16
40 Total Contracts In	962	964	945	881	1066	1164	1016	951	855	855	855	610	563	586

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Intra-Regional Transfers-</i>														
1 BPA To PPL PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
2 BPA To PSE WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
3 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
4 BPA To TBL PwrS	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
5 CIDF To UPL PwrS	15	15	0.3	0	0	0	0	0	0	0	0	12	19	20
6 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
7 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
8 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
9 Other Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
11 PGE To PPL Cove Repl	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
12 PSE To AVWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 PSE To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
15 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
16 TAUC To AVWP PwrS	201	201	201	201	201	201	201	201	201	201	201	201	201	201
17 Total Contracts	574	574	562	696	815	913	915	850	803	807	807	603	556	579
<i>-Total Contracts Out-</i>														
18 Federal System	139	139	141	276	398	496	498	433	386	387	387	171	117	139
19 Public Entities	92	92	78	78	78	78	78	78	78	78	78	89	96	97
20 Investor-Owned Entities	214	214	214	214	210	210	210	210	210	214	214	214	214	214
21 Other Entities	129	129	129	129	129	129	129	129	129	129	129	129	129	129
22 Total Contracts Out	574	574	562	696	815	913	915	850	803	807	807	603	556	579
<i>-Total Contracts In-</i>														
23 Federal System	20	20	20	20	17	17	17	17	17	20	20	20	20	20
24 Public Entities	73	73	73	73	73	73	73	73	73	73	73	73	73	73
25 Investor-Owned Entities	465	465	453	588	710	808	810	744	698	698	698	494	447	470
26 Other Entities	16	16	16	16	16	16	16	16	16	16	16	16	16	16
27 Total Contracts In	574	574	562	696	815	913	915	850	803	807	807	603	556	579

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Intra-Regional Transfers-</i>														
1 BPA To PPL PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
2 BPA To PSE WP3Set	0	0	0	0	82	82	82	82	41	41	41	0	0	0
3 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
4 BPA To TBL PwrS	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
5 CIDF To UPL PwrS	15	15	0.3	0	0	0	0	0	0	0	0	12	19	20
6 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
7 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
8 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
9 Other Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
11 PGE To PPL Cove Repl	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
12 PSE To AVWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 PSE To BPA WP3Set	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
15 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
16 TAUC To AVWP PwrS	201	201	201	201	201	201	0	0	0	0	0	0	0	0
17 Total Contracts	574	574	562	696	815	913	714	649	602	606	606	402	355	378
<i>-Total Contracts Out-</i>														
18 Federal System	139	139	141	276	398	496	498	433	386	387	387	171	117	139
19 Public Entities	92	92	78	78	78	78	78	78	78	78	78	89	96	97
20 Investor-Owned Entities	214	214	214	214	210	210	9.0	9.0	9.0	13	13	13	13	13
21 Other Entities	129	129	129	129	129	129	129	129	129	129	129	129	129	129
22 Total Contracts Out	574	574	562	696	815	913	714	649	602	606	606	402	355	378
<i>-Total Contracts In-</i>														
23 Federal System	20	20	20	20	17	17	17	17	17	20	20	20	20	20
24 Public Entities	73	73	73	73	73	73	73	73	73	73	73	73	73	73
25 Investor-Owned Entities	465	465	453	588	710	808	608	544	496	498	498	293	246	269
26 Other Entities	16	16	16	16	16	16	16	16	16	16	16	16	16	16
27 Total Contracts In	574	574	562	696	815	913	714	649	602	606	606	402	355	378

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Intra-Regional Transfers-</i>														
1 BPA To PPL PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
2 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
3 BPA To TBL PwrS	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
4 CIDF To UPL PwrS	15	15	0.3	0	0	0	0	0	0	0	0	12	19	20
5 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
6 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
7 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
8 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
9 PGE To PPL Cove Repl	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
10 PSE To AVWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
12 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
13 Total Contracts	373	373	361	495	532	630	632	567	561	565	565	402	355	378
<i>-Total Contracts Out-</i>														
14 Federal System	139	139	141	276	316	414	416	351	345	346	346	171	117	139
15 Public Entities	92	92	78	78	78	78	78	78	78	78	78	89	96	97
16 Investor-Owned Entities	13	13	13	13	9.0	9.0	9.0	9.0	9.0	13	13	13	13	13
17 Other Entities	129	129	129	129	129	129	129	129	129	129	129	129	129	129
18 Total Contracts Out	373	373	361	495	532	630	632	567	561	565	565	402	355	378
<i>-Total Contracts In-</i>														
19 Federal System	20	20	20	20	17	17	17	17	17	20	20	20	20	20
20 Public Entities	73	73	73	73	73	73	73	73	73	73	73	73	73	73
21 Investor-Owned Entities	264	264	252	386	426	524	526	462	456	456	456	293	246	269
22 Other Entities	16	16	16	16	16	16	16	16	16	16	16	16	16	16
23 Total Contracts In	373	373	361	495	532	630	632	567	561	565	565	402	355	378

**Table A-16: Regional Intra-Regional Transfers
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Intra-Regional Transfers-</i>														
1 BPA To PPL PwrS	130	130	132	267	300	398	400	335	336	337	337	162	108	130
2 BPA To PSE PwrS	0	0	0	0	7	7	7	7	0	0	0	0	0	0
3 BPA To TBL PwrS	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
4 CIDF To UPL PwrS	15	15	0.3	0	0	0	0	0	0	0	0	12	19	20
5 GCPD To PPL PwrS	14	14	14	14	14	14	14	14	14	14	14	14	14	14
6 GHPD To GHP PwrS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
7 NWE To MVP PwrS	11	11	11	11	7.5	7.5	7.5	7.5	7.5	11	11	11	11	11
8 Other Entities To COPD	25	25	25	25	25	25	25	25	25	25	25	25	25	25
9 PGE To PPL Cove Repl	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
10 PSE To AVWP PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SCL To POPD PwrS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
12 SPN To PGE PwrS	104	104	104	104	104	104	104	104	104	104	104	104	104	104
13 Total Contracts	373	373	361	495	532	630	632	567	561	565	565	402	355	378
<i>-Total Contracts Out-</i>														
14 Federal System	139	139	141	276	316	414	416	351	345	346	346	171	117	139
15 Public Entities	92	92	78	78	78	78	78	78	78	78	78	89	96	97
16 Investor-Owned Entities	13	13	13	13	9.0	9.0	9.0	9.0	9.0	13	13	13	13	13
17 Other Entities	129	129	129	129	129	129	129	129	129	129	129	129	129	129
18 Total Contracts Out	373	373	361	495	532	630	632	567	561	565	565	402	355	378
<i>-Total Contracts In-</i>														
19 Federal System	20	20	20	20	17	17	17	17	17	20	20	20	20	20
20 Public Entities	73	73	73	73	73	73	73	73	73	73	73	73	73	73
21 Investor-Owned Entities	264	264	252	386	426	524	526	462	456	456	456	293	246	269
22 Other Entities	16	16	16	16	16	16	16	16	16	16	16	16	16	16
23 Total Contracts In	373	373	361	495	532	630	632	567	561	565	565	402	355	378

Table A-17
Capacity Reserves
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-394	-364	-346	-347	-406	-430	-434	-409	-377	-358	-387	-379	-375	-402
2 Total Federal Entities	-394	-364	-346	-347	-406	-430	-434	-409	-377	-358	-387	-379	-375	-402
-Generating Public Entities-														
3 Generating Publics	-107	-107	-104	-109	-110	-114	-111	-113	-109	-109	-108	-105	-106	-108
4 Total Generating Public Entities	-107	-107	-104	-109	-110	-114	-111	-113	-109	-109	-108	-105	-106	-108
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-495	-494	-462	-452	-478	-510	-512	-492	-468	-457	-453	-438	-491	-510
8 Total Investor-Owned Entities	-495	-494	-462	-452	-478	-510	-512	-492	-468	-457	-453	-438	-491	-510
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-394	-364	-346	-347	-406	-430	-434	-409	-377	-358	-387	-379	-375	-402
12 Total Federal Entities	-394	-364	-346	-347	-406	-430	-434	-409	-377	-358	-387	-379	-375	-402
-Generating Public Entities-														
13 Generating Publics	-107	-107	-104	-109	-110	-114	-111	-113	-109	-109	-108	-105	-106	-108
14 Total Generating Public Entities	-107	-107	-104	-109	-110	-114	-111	-113	-109	-109	-108	-105	-106	-108
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-495	-494	-462	-452	-478	-510	-512	-492	-468	-457	-453	-438	-491	-510
18 Total Investor-Owned Entities	-495	-494	-462	-452	-478	-510	-512	-492	-468	-457	-453	-438	-491	-510
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-311	-311	-338	-290	-290	-290	-290	-290	-294	-320	-320	-320	-320	-320
22 Total Federal Entities	-311	-311	-338	-290	-290	-290	-290	-290	-294	-320	-320	-320	-320	-320
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-415	-415	-432	-403	-403	-403	-403	-403	-408	-419	-419	-419	-419	-419
32 Total Federal Entities	-415	-415	-432	-403	-403	-403	-403	-403	-408	-419	-419	-419	-419	-419
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-996	-965	-913	-908	-994	-1054	-1056	-1013	-954	-923	-948	-922	-972	-1020
42 Total Non-Spinning Reserves	-996	-965	-913	-908	-994	-1054	-1056	-1013	-954	-923	-948	-922	-972	-1020
43 Total Load Following Reserves	-311	-311	-338	-290	-290	-290	-290	-290	-294	-320	-320	-320	-320	-320
44 Total Generation Imbalance Reserves	-415	-415	-432	-403	-403	-403	-403	-403	-408	-419	-419	-419	-419	-419
45 Total Capacity Reserves	-2719	-2656	-2596	-2509	-2681	-2801	-2807	-2720	-2609	-2586	-2635	-2582	-2682	-2779

Table A-17: Regional Capacity Reserves
 PNW Loads and Resource Study
 2012 - 2013 Operating Year
 1937 Water Year
 [76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-384	-361	-343	-349	-417	-434	-437	-407	-375	-356	-387	-366	-361	-405
2 Total Federal Entities	-384	-361	-343	-349	-417	-434	-437	-407	-375	-356	-387	-366	-361	-405
-Generating Public Entities-														
3 Generating Publics	-108	-108	-105	-109	-110	-114	-111	-113	-110	-109	-109	-105	-106	-109
4 Total Generating Public Entities	-108	-108	-105	-109	-110	-114	-111	-113	-110	-109	-109	-105	-106	-109
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-501	-500	-467	-457	-485	-517	-520	-499	-475	-446	-442	-445	-502	-519
8 Total Investor-Owned Entities	-501	-500	-467	-457	-485	-517	-520	-499	-475	-446	-442	-445	-502	-519
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-384	-361	-343	-349	-417	-434	-437	-407	-375	-356	-387	-366	-361	-405
12 Total Federal Entities	-384	-361	-343	-349	-417	-434	-437	-407	-375	-356	-387	-366	-361	-405
-Generating Public Entities-														
13 Generating Publics	-108	-108	-105	-109	-110	-114	-111	-113	-110	-109	-109	-105	-106	-109
14 Total Generating Public Entities	-108	-108	-105	-109	-110	-114	-111	-113	-110	-109	-109	-105	-106	-109
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-501	-500	-467	-457	-485	-517	-520	-499	-475	-446	-442	-445	-502	-519
18 Total Investor-Owned Entities	-501	-500	-467	-457	-485	-517	-520	-499	-475	-446	-442	-445	-502	-519
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-350	-350	-353	-353	-353	-387	-387	-396	-396	-396	-396	-396	-396	-399
22 Total Federal Entities	-350	-350	-353	-353	-353	-387	-387	-396	-396	-396	-396	-396	-396	-399
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-433	-433	-436	-438	-438	-466	-466	-470	-470	-470	-470	-470	-470	-474
32 Total Federal Entities	-433	-433	-436	-438	-438	-466	-466	-470	-470	-470	-470	-470	-470	-474
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-993	-968	-914	-915	-1012	-1065	-1068	-1020	-960	-912	-938	-915	-968	-1033
42 Total Non-Spinning Reserves	-993	-968	-914	-915	-1012	-1065	-1068	-1020	-960	-912	-938	-915	-968	-1033
43 Total Load Following Reserves	-350	-350	-353	-353	-353	-387	-387	-396	-396	-396	-396	-396	-396	-399
44 Total Generation Imbalance Reserves	-433	-433	-436	-438	-438	-466	-466	-470	-470	-470	-470	-470	-470	-474
45 Total Capacity Reserves	-2769	-2718	-2618	-2621	-2814	-2982	-2989	-2906	-2785	-2689	-2742	-2697	-2802	-2940

Table A-17: Regional Capacity Reserves
 PNW Loads and Resource Study
 2013 - 2014 Operating Year
 1937 Water Year
 [76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-387	-362	-344	-358	-408	-435	-436	-407	-376	-362	-387	-382	-380	-401
2 Total Federal Entities	-387	-362	-344	-358	-408	-435	-436	-407	-376	-362	-387	-382	-380	-401
-Generating Public Entities-														
3 Generating Publics	-108	-108	-105	-110	-110	-114	-111	-113	-110	-110	-109	-105	-106	-109
4 Total Generating Public Entities	-108	-108	-105	-110	-110	-114	-111	-113	-110	-110	-109	-105	-106	-109
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-510	-509	-474	-465	-493	-527	-530	-508	-484	-463	-444	-446	-505	-529
8 Total Investor-Owned Entities	-510	-509	-474	-465	-493	-527	-530	-508	-484	-463	-444	-446	-505	-529
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-387	-362	-344	-358	-408	-435	-436	-407	-376	-362	-387	-382	-380	-401
12 Total Federal Entities	-387	-362	-344	-358	-408	-435	-436	-407	-376	-362	-387	-382	-380	-401
-Generating Public Entities-														
13 Generating Publics	-108	-108	-105	-110	-110	-114	-111	-113	-110	-110	-109	-105	-106	-109
14 Total Generating Public Entities	-108	-108	-105	-110	-110	-114	-111	-113	-110	-110	-109	-105	-106	-109
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-510	-509	-474	-465	-493	-527	-530	-508	-484	-463	-444	-446	-505	-529
18 Total Investor-Owned Entities	-510	-509	-474	-465	-493	-527	-530	-508	-484	-463	-444	-446	-505	-529
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-411	-411	-411	-424	-424	-424	-424	-424	-424	-427	-427	-427	-470	-470
22 Total Federal Entities	-411	-411	-411	-424	-424	-424	-424	-424	-424	-427	-427	-427	-470	-470
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-486	-486	-486	-502	-502	-502	-502	-503	-503	-504	-504	-504	-532	-532
32 Total Federal Entities	-486	-486	-486	-502	-502	-502	-502	-503	-503	-504	-504	-504	-532	-532
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-1005	-978	-923	-932	-1011	-1077	-1077	-1029	-969	-935	-940	-933	-991	-1039
42 Total Non-Spinning Reserves	-1005	-978	-923	-932	-1011	-1077	-1077	-1029	-969	-935	-940	-933	-991	-1039
43 Total Load Following Reserves	-411	-411	-411	-424	-424	-424	-424	-424	-424	-427	-427	-427	-470	-470
44 Total Generation Imbalance Reserves	-486	-486	-486	-502	-502	-502	-502	-503	-503	-504	-504	-504	-532	-532
45 Total Capacity Reserves	-2908	-2854	-2745	-2789	-2948	-3079	-3080	-2986	-2866	-2802	-2812	-2797	-2983	-3079

Table A-17: Regional Capacity Reserves
 PNW Loads and Resource Study
 2014 - 2015 Operating Year
 1937 Water Year
 [76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-389	-363	-346	-352	-410	-440	-437	-408	-378	-361	-329	-371	-357	-408
2 Total Federal Entities	-389	-363	-346	-352	-410	-440	-437	-408	-378	-361	-329	-371	-357	-408
-Generating Public Entities-														
3 Generating Publics	-108	-108	-105	-110	-111	-115	-112	-114	-110	-110	-109	-105	-107	-109
4 Total Generating Public Entities	-108	-108	-105	-110	-111	-115	-112	-114	-110	-110	-109	-105	-107	-109
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-520	-518	-482	-473	-501	-535	-539	-517	-490	-478	-467	-462	-516	-537
8 Total Investor-Owned Entities	-520	-518	-482	-473	-501	-535	-539	-517	-490	-478	-467	-462	-516	-537
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-389	-363	-346	-352	-410	-440	-437	-408	-378	-361	-329	-371	-357	-408
12 Total Federal Entities	-389	-363	-346	-352	-410	-440	-437	-408	-378	-361	-329	-371	-357	-408
-Generating Public Entities-														
13 Generating Publics	-108	-108	-105	-110	-111	-115	-112	-114	-110	-110	-109	-105	-107	-109
14 Total Generating Public Entities	-108	-108	-105	-110	-111	-115	-112	-114	-110	-110	-109	-105	-107	-109
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-520	-518	-482	-473	-501	-535	-539	-517	-490	-478	-467	-462	-516	-537
18 Total Investor-Owned Entities	-520	-518	-482	-473	-501	-535	-539	-517	-490	-478	-467	-462	-516	-537
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-470	-470	-470	-481	-481	-481	-482	-486	-486	-486	-486	-486	-539	-539
22 Total Federal Entities	-470	-470	-470	-481	-481	-481	-482	-486	-486	-486	-486	-486	-539	-539
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-532	-532	-532	-535	-535	-535	-537	-555	-555	-555	-555	-555	-582	-582
32 Total Federal Entities	-532	-532	-532	-535	-535	-535	-537	-555	-555	-555	-555	-555	-582	-582
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-1017	-989	-934	-935	-1022	-1091	-1088	-1038	-978	-949	-905	-938	-980	-1054
42 Total Non-Spinning Reserves	-1017	-989	-934	-935	-1022	-1091	-1088	-1038	-978	-949	-905	-938	-980	-1054
43 Total Load Following Reserves	-470	-470	-470	-481	-481	-481	-482	-486	-486	-486	-486	-486	-539	-539
44 Total Generation Imbalance Reserves	-532	-532	-532	-535	-535	-535	-537	-555	-555	-555	-555	-555	-582	-582
45 Total Capacity Reserves	-3035	-2980	-2868	-2885	-3059	-3197	-3195	-3117	-2997	-2938	-2850	-2917	-3081	-3229

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-390	-363	-346	-351	-410	-441	-440	-409	-377	-353	-375	-395	-380	-404
2 Total Federal Entities	-390	-363	-346	-351	-410	-441	-440	-409	-377	-353	-375	-395	-380	-404
-Generating Public Entities-														
3 Generating Publics	-109	-109	-106	-110	-111	-115	-112	-114	-110	-110	-109	-106	-107	-109
4 Total Generating Public Entities	-109	-109	-106	-110	-111	-115	-112	-114	-110	-110	-109	-106	-107	-109
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-527	-525	-488	-478	-506	-541	-545	-522	-496	-464	-452	-467	-524	-542
8 Total Investor-Owned Entities	-527	-525	-488	-478	-506	-541	-545	-522	-496	-464	-452	-467	-524	-542
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-390	-363	-346	-351	-410	-441	-440	-409	-377	-353	-375	-395	-380	-404
12 Total Federal Entities	-390	-363	-346	-351	-410	-441	-440	-409	-377	-353	-375	-395	-380	-404
-Generating Public Entities-														
13 Generating Publics	-109	-109	-106	-110	-111	-115	-112	-114	-110	-110	-109	-106	-107	-109
14 Total Generating Public Entities	-109	-109	-106	-110	-111	-115	-112	-114	-110	-110	-109	-106	-107	-109
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-527	-525	-488	-478	-506	-541	-545	-522	-496	-464	-452	-467	-524	-542
18 Total Investor-Owned Entities	-527	-525	-488	-478	-506	-541	-545	-522	-496	-464	-452	-467	-524	-542
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-585	-585
22 Total Federal Entities	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-585	-585
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

Table A-17: Regional Capacity Reserves
 PNW Loads and Resource Study
 2015 - 2016 Operating Year
 1937 Water Year
 [76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-592	-592	-592	-593	-593	-593	-593	-593	-593	-593	-593	-593	-624	-624
32 Total Federal Entities	-592	-592	-592	-593	-593	-593	-593	-593	-593	-593	-593	-593	-624	-624
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-1025	-997	-940	-940	-1027	-1098	-1096	-1044	-983	-928	-937	-967	-1010	-1055
42 Total Non-Spinning Reserves	-1025	-997	-940	-940	-1027	-1098	-1096	-1044	-983	-928	-937	-967	-1010	-1055
43 Total Load Following Reserves	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-543	-585	-585
44 Total Generation Imbalance Reserves	-592	-592	-592	-593	-593	-593	-593	-593	-593	-593	-593	-593	-624	-624
45 Total Capacity Reserves	-3185	-3128	-3015	-3015	-3190	-3331	-3329	-3225	-3101	-2991	-3011	-3070	-3229	-3320

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-387	-364	-350	-351	-410	-438	-441	-413	-387	-357	-378	-380	-362	-410
2 Total Federal Entities	-387	-364	-350	-351	-410	-438	-441	-413	-387	-357	-378	-380	-362	-410
-Generating Public Entities-														
3 Generating Publics	-109	-109	-106	-111	-111	-115	-112	-114	-111	-110	-110	-106	-107	-110
4 Total Generating Public Entities	-109	-109	-106	-111	-111	-115	-112	-114	-111	-110	-110	-106	-107	-110
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-532	-531	-493	-482	-510	-546	-545	-522	-495	-473	-462	-463	-523	-543
8 Total Investor-Owned Entities	-532	-531	-493	-482	-510	-546	-545	-522	-495	-473	-462	-463	-523	-543
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-387	-364	-350	-351	-410	-438	-441	-413	-387	-357	-378	-380	-362	-410
12 Total Federal Entities	-387	-364	-350	-351	-410	-438	-441	-413	-387	-357	-378	-380	-362	-410
-Generating Public Entities-														
13 Generating Publics	-109	-109	-106	-111	-111	-115	-112	-114	-111	-110	-110	-106	-107	-110
14 Total Generating Public Entities	-109	-109	-106	-111	-111	-115	-112	-114	-111	-110	-110	-106	-107	-110
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-532	-531	-493	-482	-510	-546	-545	-522	-495	-473	-462	-463	-523	-543
18 Total Investor-Owned Entities	-532	-531	-493	-482	-510	-546	-545	-522	-495	-473	-462	-463	-523	-543
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-610	-610
22 Total Federal Entities	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-610	-610
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

Table A-17: Regional Capacity Reserves
 PNW Loads and Resource Study
 2016 - 2017 Operating Year
 1937 Water Year
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Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-637	-637
32 Total Federal Entities	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-637	-637
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-1028	-1003	-949	-943	-1032	-1099	-1098	-1049	-992	-941	-950	-949	-992	-1062
42 Total Non-Spinning Reserves	-1028	-1003	-949	-943	-1032	-1099	-1098	-1049	-992	-941	-950	-949	-992	-1062
43 Total Load Following Reserves	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-585	-610	-610
44 Total Generation Imbalance Reserves	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-624	-637	-637
45 Total Capacity Reserves	-3266	-3216	-3106	-3095	-3273	-3408	-3406	-3307	-3193	-3090	-3109	-3108	-3230	-3371

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2017 - 2018 Operating Year
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-390	-366	-350	-355	-413	-445	-443	-412	-380	-366	-389	-388	-383	-407
2 Total Federal Entities	-390	-366	-350	-355	-413	-445	-443	-412	-380	-366	-389	-388	-383	-407
-Generating Public Entities-														
3 Generating Publics	-109	-109	-106	-111	-111	-116	-113	-114	-111	-111	-110	-106	-107	-110
4 Total Generating Public Entities	-109	-109	-106	-111	-111	-116	-113	-114	-111	-111	-110	-106	-107	-110
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-533	-531	-492	-480	-509	-545	-549	-525	-498	-485	-474	-461	-526	-547
8 Total Investor-Owned Entities	-533	-531	-492	-480	-509	-545	-549	-525	-498	-485	-474	-461	-526	-547
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-390	-366	-350	-355	-413	-445	-443	-412	-380	-366	-389	-388	-383	-407
12 Total Federal Entities	-390	-366	-350	-355	-413	-445	-443	-412	-380	-366	-389	-388	-383	-407
-Generating Public Entities-														
13 Generating Publics	-109	-109	-106	-111	-111	-116	-113	-114	-111	-111	-110	-106	-107	-110
14 Total Generating Public Entities	-109	-109	-106	-111	-111	-116	-113	-114	-111	-111	-110	-106	-107	-110
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-533	-531	-492	-480	-509	-545	-549	-525	-498	-485	-474	-461	-526	-547
18 Total Investor-Owned Entities	-533	-531	-492	-480	-509	-545	-549	-525	-498	-485	-474	-461	-526	-547
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
22 Total Federal Entities	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
32 Total Federal Entities	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-1032	-1006	-948	-946	-1034	-1106	-1105	-1052	-989	-962	-972	-955	-1016	-1064
42 Total Non-Spinning Reserves	-1032	-1006	-948	-946	-1034	-1106	-1105	-1052	-989	-962	-972	-955	-1016	-1064
43 Total Load Following Reserves	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
44 Total Generation Imbalance Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
45 Total Capacity Reserves	-3311	-3258	-3143	-3139	-3315	-3458	-3456	-3350	-3225	-3170	-3191	-3157	-3280	-3375

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-391	-367	-353	-354	-414	-442	-445	-416	-390	-370	-391	-374	-365	-413
2 Total Federal Entities	-391	-367	-353	-354	-414	-442	-445	-416	-390	-370	-391	-374	-365	-413
-Generating Public Entities-														
3 Generating Publics	-109	-109	-106	-111	-112	-116	-113	-115	-111	-111	-110	-107	-108	-110
4 Total Generating Public Entities	-109	-109	-106	-111	-112	-116	-113	-115	-111	-111	-110	-107	-108	-110
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-538	-536	-496	-484	-513	-549	-553	-529	-502	-470	-466	-468	-532	-552
8 Total Investor-Owned Entities	-538	-536	-496	-484	-513	-549	-553	-529	-502	-470	-466	-468	-532	-552
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-391	-367	-353	-354	-414	-442	-445	-416	-390	-370	-391	-374	-365	-413
12 Total Federal Entities	-391	-367	-353	-354	-414	-442	-445	-416	-390	-370	-391	-374	-365	-413
-Generating Public Entities-														
13 Generating Publics	-109	-109	-106	-111	-112	-116	-113	-115	-111	-111	-110	-107	-108	-110
14 Total Generating Public Entities	-109	-109	-106	-111	-112	-116	-113	-115	-111	-111	-110	-107	-108	-110
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-538	-536	-496	-484	-513	-549	-553	-529	-502	-470	-466	-468	-532	-552
18 Total Investor-Owned Entities	-538	-536	-496	-484	-513	-549	-553	-529	-502	-470	-466	-468	-532	-552
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
22 Total Federal Entities	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

Table A-17: Regional Capacity Reserves
 PNW Loads and Resource Study
 2018 - 2019 Operating Year
 1937 Water Year
 [76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
32 Total Federal Entities	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-1038	-1012	-955	-949	-1039	-1107	-1110	-1060	-1003	-950	-967	-948	-1005	-1075
42 Total Non-Spinning Reserves	-1038	-1012	-955	-949	-1039	-1107	-1110	-1060	-1003	-950	-967	-948	-1005	-1075
43 Total Load Following Reserves	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
44 Total Generation Imbalance Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
45 Total Capacity Reserves	-3322	-3272	-3157	-3145	-3324	-3461	-3468	-3367	-3252	-3147	-3181	-3144	-3257	-3397

Table A-17: Regional Capacity Reserves
 PNW Loads and Resource Study
 2019 - 2020 Operating Year
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5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-393	-369	-353	-357	-416	-448	-446	-415	-383	-369	-391	-391	-386	-410
2 Total Federal Entities	-393	-369	-353	-357	-416	-448	-446	-415	-383	-369	-391	-391	-386	-410
-Generating Public Entities-														
3 Generating Publics	-110	-110	-107	-111	-112	-116	-113	-115	-111	-111	-111	-107	-108	-110
4 Total Generating Public Entities	-110	-110	-107	-111	-112	-116	-113	-115	-111	-111	-111	-107	-108	-110
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-542	-541	-499	-487	-517	-553	-557	-533	-505	-483	-464	-465	-535	-557
8 Total Investor-Owned Entities	-542	-541	-499	-487	-517	-553	-557	-533	-505	-483	-464	-465	-535	-557
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-393	-369	-353	-357	-416	-448	-446	-415	-383	-369	-391	-391	-386	-410
12 Total Federal Entities	-393	-369	-353	-357	-416	-448	-446	-415	-383	-369	-391	-391	-386	-410
-Generating Public Entities-														
13 Generating Publics	-110	-110	-107	-111	-112	-116	-113	-115	-111	-111	-111	-107	-108	-110
14 Total Generating Public Entities	-110	-110	-107	-111	-112	-116	-113	-115	-111	-111	-111	-107	-108	-110
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-542	-541	-499	-487	-517	-553	-557	-533	-505	-483	-464	-465	-535	-557
18 Total Investor-Owned Entities	-542	-541	-499	-487	-517	-553	-557	-533	-505	-483	-464	-465	-535	-557
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
22 Total Federal Entities	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

Table A-17: Regional Capacity Reserves
 PNW Loads and Resource Study
 2019 - 2020 Operating Year
 1937 Water Year
 [76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
32 Total Federal Entities	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-1045	-1019	-959	-956	-1045	-1117	-1116	-1063	-1000	-964	-966	-963	-1029	-1078
42 Total Non-Spinning Reserves	-1045	-1019	-959	-956	-1045	-1117	-1116	-1063	-1000	-964	-966	-963	-1029	-1078
43 Total Load Following Reserves	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
44 Total Generation Imbalance Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
45 Total Capacity Reserves	-3337	-3285	-3165	-3159	-3337	-3482	-3480	-3373	-3246	-3174	-3179	-3174	-3304	-3402

Table A-17: Regional Capacity Reserves
 PNW Loads and Resource Study
 2020 - 2021 Operating Year
 1937 Water Year
 [76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Spinning Reserves														
-Federal Entities-														
1 Federal Agencies	-394	-370	-356	-357	-417	-445	-447	-418	-392	-372	-393	-377	-367	-415
2 Total Federal Entities	-394	-370	-356	-357	-417	-445	-447	-418	-392	-372	-393	-377	-367	-415
-Generating Public Entities-														
3 Generating Publics	-110	-110	-107	-112	-112	-117	-113	-115	-112	-111	-111	-107	-108	-111
4 Total Generating Public Entities	-110	-110	-107	-112	-112	-117	-113	-115	-112	-111	-111	-107	-108	-111
-Non-Generating Public Entities-														
5 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
7 Investor-Owned Utilities	-547	-545	-503	-491	-521	-557	-553	-529	-501	-487	-476	-475	-527	-554
8 Total Investor-Owned Entities	-547	-545	-503	-491	-521	-557	-553	-529	-501	-487	-476	-475	-527	-554
-Other Entities-														
9 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Spinning Reserves														
-Federal Entities-														
11 Federal Agencies	-394	-370	-356	-357	-417	-445	-447	-418	-392	-372	-393	-377	-367	-415
12 Total Federal Entities	-394	-370	-356	-357	-417	-445	-447	-418	-392	-372	-393	-377	-367	-415
-Generating Public Entities-														
13 Generating Publics	-110	-110	-107	-112	-112	-117	-113	-115	-112	-111	-111	-107	-108	-111
14 Total Generating Public Entities	-110	-110	-107	-112	-112	-117	-113	-115	-112	-111	-111	-107	-108	-111
-Non-Generating Public Entities-														
15 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
17 Investor-Owned Utilities	-547	-545	-503	-491	-521	-557	-553	-529	-501	-487	-476	-475	-527	-554
18 Total Investor-Owned Entities	-547	-545	-503	-491	-521	-557	-553	-529	-501	-487	-476	-475	-527	-554
-Other Entities-														
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Following Reserves														
-Federal Entities-														
21 Federal Agencies	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
22 Total Federal Entities	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
-Generating Public Entities-														
23 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
25 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														

**Table A-17: Regional Capacity Reserves
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
27 Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
29 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generation Imbalance Reserves														
-Federal Entities-														
31 Federal Agencies	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
32 Total Federal Entities	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
-Generating Public Entities-														
33 Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Total Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Non-Generating Public Entities-														
35 Non-Generating Publics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Total Non-Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-														
37 Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-														
39 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Capacity Reserves-														
41 Total Spinning Reserves	-1050	-1025	-966	-959	-1049	-1119	-1114	-1063	-1005	-970	-979	-958	-1002	-1080
42 Total Non-Spinning Reserves	-1050	-1025	-966	-959	-1049	-1119	-1114	-1063	-1005	-970	-979	-958	-1002	-1080
43 Total Load Following Reserves	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610	-610
44 Total Generation Imbalance Reserves	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637	-637
45 Total Capacity Reserves	-3348	-3297	-3178	-3165	-3346	-3484	-3474	-3372	-3256	-3187	-3205	-3164	-3251	-3406

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Table A-18
Wells & Chelan Allocation
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	44	44	44	44	44	44	44	44	44	43	43	43	43	43
2 Credit for Wells	-44	-44	-44	-44	-44	-44	-44	-44	-44	-43	-43	-43	-43	-43
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COLV Share	36	36	36	36	36	36	36	36	36	36	36	36	36	36
7 DOPD Share	272	272	272	272	272	272	272	272	272	271	271	271	271	271
8 OKPD Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
9 PGE Share	154	154	154	154	154	154	154	154	154	155	155	155	155	155
10 PPL Share	52	52	52	52	52	52	52	52	52	53	53	53	53	53
11 PSE Share	238	238	238	238	238	238	238	238	238	238	238	238	238	238
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	53	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	53	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	57	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	57	57	56	56	56	55	16	55	16	56	57	58

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	43	43	43	43	43	43	43	43	43	42	42	42	42	42
2 Credit for Wells	-43	-43	-43	-43	-43	-43	-43	-43	-43	-42	-42	-42	-42	-42
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COLV Share	36	36	36	36	36	36	36	36	36	36	36	36	36	36
7 DOPD Share	271	271	271	271	271	271	271	271	271	271	271	271	271	271
8 OKPD Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
9 PGE Share	155	155	155	155	155	155	155	155	155	155	155	155	155	155
10 PPL Share	53	53	53	53	53	53	53	53	53	53	53	53	53	53
11 PSE Share	238	238	238	238	238	238	238	238	238	239	239	239	239	239
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	54	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	54	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	58	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	58	57	56	56	56	55	16	55	16	56	57	58

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2 Credit for Wells	-42	-42	-42	-42	-42	-42	-42	-42	-42	-42	-42	-42	-42	-42
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COLV Share	36	36	36	36	36	36	36	36	36	36	36	36	36	36
7 DOPD Share	271	271	271	271	271	271	271	271	271	271	271	271	271	271
8 OKPD Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
9 PGE Share	155	155	155	155	155	155	155	155	155	155	155	155	155	155
10 PPL Share	53	53	53	53	53	53	53	53	53	53	53	53	53	53
11 PSE Share	239	239	239	239	239	239	239	239	239	239	239	239	239	239
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	54	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	54	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	58	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	58	57	56	56	56	55	16	55	16	56	57	58

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	42	42	42	42	42	42	42	42	42	41	41	41	41	41
2 Credit for Wells	-42	-42	-42	-42	-42	-42	-42	-42	-42	-41	-41	-41	-41	-41
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COLV Share	36	36	36	36	36	36	36	36	36	36	36	36	36	36
7 DOPD Share	271	271	271	271	271	271	271	271	271	270	270	270	270	270
8 OKPD Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
9 PGE Share	155	155	155	155	155	155	155	155	155	155	155	155	155	155
10 PPL Share	53	53	53	53	53	53	53	53	53	53	53	53	53	53
11 PSE Share	239	239	239	239	239	239	239	239	239	239	239	239	239	239
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	54	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	54	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	58	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	58	57	56	56	56	55	16	55	16	56	57	58

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	41	41	41	41	41	41	41	41	41	41	41	41	41	41
2 Credit for Wells	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COLV Share	36	36	36	36	36	36	36	36	36	36	36	36	36	36
7 DOPD Share	270	270	270	270	270	270	270	270	270	270	270	270	270	270
8 OKPD Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
9 PGE Share	155	155	155	155	155	155	155	155	155	155	155	155	155	155
10 PPL Share	53	53	53	53	53	53	53	53	53	53	53	53	53	53
11 PSE Share	239	239	239	239	239	239	239	239	239	239	239	239	239	239
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	54	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	54	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	58	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	58	57	56	56	56	55	16	55	16	56	57	58

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	41	41	41	41	41	41	41	41	41	41	41	41	41	41
2 Credit for Wells	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41	-41
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COLV Share	36	36	36	36	36	36	36	36	36	36	36	36	36	36
7 DOPD Share	270	270	270	270	270	270	270	270	270	270	270	270	270	270
8 OKPD Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
9 PGE Share	155	155	155	155	155	155	155	155	155	155	155	155	155	155
10 PPL Share	53	53	53	53	53	53	53	53	53	53	53	53	53	53
11 PSE Share	239	239	239	239	239	239	239	239	239	239	239	239	239	239
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	54	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	54	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	58	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	58	57	56	56	56	55	16	55	16	56	57	58

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	41	41	41	41	41	41	41	41	41	40	40	40	40	40
2 Credit for Wells	-41	-41	-41	-41	-41	-41	-41	-41	-41	-40	-40	-40	-40	-40
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COLV Share	36	36	36	36	36	36	36	36	36	36	36	36	36	36
7 DOPD Share	270	270	270	270	270	270	270	270	270	269	269	269	269	269
8 OKPD Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
9 PGE Share	155	155	155	155	155	155	155	155	155	155	155	155	155	155
10 PPL Share	53	53	53	53	53	53	53	53	53	53	53	53	53	53
11 PSE Share	239	239	239	239	239	239	239	239	239	239	239	239	239	239
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	54	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	54	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	58	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	58	57	56	56	56	55	16	55	16	56	57	58

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	40	40	40	40	40	40	40	40	40	40	40	40	40	40
2 Credit for Wells	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	27	27	0	0	0	0	0	0	0	0	0	0	0	0
6 COLV Share	36	36	44	44	44	44	44	44	44	44	44	44	44	44
7 DOPD Share	269	269	736	736	736	736	736	736	736	736	736	736	736	736
8 OKPD Share	61	61	60	60	60	60	60	60	60	60	60	60	60	60
9 PGE Share	155	155	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	53	53	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	239	239	0	0	0	0	0	0	0	0	0	0	0	0
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	54	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	54	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	58	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	58	57	56	56	56	55	16	55	16	56	57	58

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	40	40	40	40	40	40	40	40	40	39	39	39	39	39
2 Credit for Wells	-40	-40	-40	-40	-40	-40	-40	-40	-40	-39	-39	-39	-39	-39
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 COLV Share	44	44	44	44	44	44	44	44	44	44	44	44	44	44
7 DOPD Share	736	736	736	736	736	736	736	736	736	735	735	735	735	735
8 OKPD Share	60	60	60	60	60	60	60	60	60	61	61	61	61	61
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	54	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	54	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	58	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	58	57	56	56	56	55	16	55	16	56	57	58

**Table A-18: Wells and Chelan Allocation
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wells-														
1 Credit for Wells	39	39	39	39	39	39	39	39	39	39	39	39	39	39
2 Credit for Wells	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39
3 Credit for Wells	840	840	840	840	840	840	840	840	840	840	840	840	840	840
4 Credit for Wells Before Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Debit for Wells-														
5 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 COLV Share	44	44	44	44	44	44	44	44	44	44	44	44	44	44
7 DOPD Share	735	735	735	735	735	735	735	735	735	735	735	735	735	735
8 OKPD Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Debit for Wells After Enc	840	840	840	840	840	840	840	840	840	840	840	840	840	840
-Chelan-														
13 Chelan	54	54	54	53	52	52	52	51	12	51	12	52	53	54
14 Chelan Before Enc	54	54	54	53	52	52	52	51	12	51	12	52	53	54
-Chelan-														
15 CHPD Share	58	58	58	57	56	56	56	55	16	55	16	56	57	58
16 Chelan After Enc	58	58	58	57	56	56	56	55	16	55	16	56	57	58

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Table A-19
Rocky Reach & Rock Island Allocation
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	68	68	68	68	68	68	68	68	68	67	67	67	67	67
2 Credit for Rocky Reach	-68	-68	-68	-68	-68	-68	-68	-68	-68	-67	-67	-67	-67	-67
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	283	283	282	283	339	338	339	338	338	338	338	339	339	321
6 AVWP Share	36	36	36	36	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	254	254	254	254	585	584	585	584	584	582	582	584	584	603
8 DOPD Share	34	34	34	34	68	68	68	68	68	68	68	68	68	68
9 PGE Share	148	148	147	147	0	0	0	0	0	0	0	0	0	0
10 PPL Share	65	65	65	65	0	0	0	0	0	0	0	0	0	0
11 PSE Share	479	478	478	478	308	308	308	308	307	307	307	308	308	309
12 Debit for Rocky Reach After Enc	1201	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	20	20	20	20	20	20	20	20	20	20	20	20	20	20
14 Credit for Rock Island #1	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
15 Credit for Rock Island #1	153	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	153	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	0	0	0	0	0	0	0	0	0	0	0	0	0	38
18 CHPD Share	94	97	98	98	96	97	95	97	98	98	98	95	93	91
19 PSE Share	74	77	78	78	76	77	75	77	78	78	78	75	73	36
20 Debit for Rock Island #1 After Enc	168	175	175	175	171	173	171	174	175	176	176	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	13	13	13	13	13	13	13	13	13	13	13	13	13	13
22 Credit for Rock Island #2	-13	-13	-13	-13	-13	-13	-13	-13	-13	-13	-13	-13	-13	-13
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	0	0	0	0	0	0	0	0	0	0	0	0	0	109
26 CHPD Share	222	220	221	221	221	221	221	220	221	222	221	222	223	219
27 PSE Share	209	207	208	208	208	208	208	207	208	209	208	209	210	105
28 Debit for Rock Island #2 After Enc	441	428	429	429	429	428	430	428	429	430	430	431	434	434

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	67	67	67	67	67	67	67	67	67	66	66	66	66	66
2 Credit for Rocky Reach	-67	-67	-67	-67	-67	-67	-67	-67	-67	-66	-66	-66	-66	-66
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	321	320	320	320	320	320	321	320	320	319	320	321	321	321
6 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	603	602	601	601	603	602	603	602	601	600	600	602	602	603
8 DOPD Share	68	68	68	68	68	68	68	68	68	68	68	68	68	68
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	308	308	307	307	308	308	308	308	307	307	307	308	309	309
12 Debit for Rocky Reach After Enc	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	20	20	20	20	20	20	20	20	20	19	19	19	19	19
14 Credit for Rock Island #1	-20	-20	-20	-20	-20	-20	-20	-20	-20	-19	-19	-19	-19	-19
15 Credit for Rock Island #1	154	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	154	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	39	40	40	40	39	40	39	40	40	41	41	39	38	38
18 CHPD Share	93	96	96	96	94	95	94	96	96	96	96	93	91	91
19 PSE Share	37	39	39	39	38	38	38	39	39	39	39	38	37	37
20 Debit for Rock Island #1 After Enc	169	174	175	175	171	173	171	174	175	176	175	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	13	13	13	13	13	13	13	13	13	12	12	12	12	12
22 Credit for Rock Island #2	-13	-13	-13	-13	-13	-13	-13	-13	-13	-12	-12	-12	-12	-12
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	109	108	108	108	108	108	108	108	108	109	109	109	110	110
26 CHPD Share	218	216	217	217	217	216	217	216	217	217	217	217	219	219
27 PSE Share	105	104	104	104	104	104	104	104	104	105	104	105	105	105
28 Debit for Rock Island #2 After Enc	401	428	429	429	429	428	430	428	429	430	430	431	434	434

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	66	66	66	66	66	66	66	66	66	65	65	65	65	65
2 Credit for Rocky Reach	-66	-66	-66	-66	-66	-66	-66	-66	-66	-65	-65	-65	-65	-65
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	321	320	320	320	321	321	321	320	320	320	320	321	321	321
6 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	603	602	601	601	602	602	602	601	601	599	600	602	602	602
8 DOPD Share	68	68	68	68	68	68	68	68	68	68	68	68	68	68
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	309	308	308	308	308	308	308	308	308	307	308	309	309	309
12 Debit for Rocky Reach After Enc	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	19	19	19	19	19	19	19	19	19	19	19	19	19	19
14 Credit for Rock Island #1	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19
15 Credit for Rock Island #1	154	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	154	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	39	40	41	41	40	40	39	40	41	41	41	39	38	38
18 CHPD Share	92	95	95	95	94	95	93	95	95	96	96	93	91	91
19 PSE Share	37	39	39	39	38	39	38	39	39	39	39	38	37	37
20 Debit for Rock Island #1 After Enc	169	174	175	175	171	173	171	174	175	176	175	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	12	12	12	12	12	12	12	12	12	12	12	12	12	12
22 Credit for Rock Island #2	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	109	108	108	108	109	108	109	108	108	109	109	109	110	110
26 CHPD Share	217	216	216	216	217	216	217	216	216	217	217	217	219	219
27 PSE Share	105	104	104	104	104	104	104	104	104	105	104	105	105	105
28 Debit for Rock Island #2 After Enc	401	428	429	429	429	428	430	428	429	430	430	431	434	434

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	65	65	65	65	65	65	65	65	65	65	65	65	65	65
2 Credit for Rocky Reach	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	321	321	320	320	321	321	321	321	320	320	320	321	321	321
6 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	602	601	600	600	602	601	602	601	600	599	600	602	602	602
8 DOPD Share	68	68	68	68	68	68	68	68	68	68	68	68	68	68
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	309	308	308	308	309	308	309	308	308	307	308	309	309	309
12 Debit for Rocky Reach After Enc	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	19	19	19	19	19	19	19	19	19	19	19	19	19	19
14 Credit for Rock Island #1	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19
15 Credit for Rock Island #1	154	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	154	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	39	40	41	41	40	40	39	40	41	41	41	39	38	38
18 CHPD Share	92	95	95	95	94	95	93	95	95	96	96	93	91	91
19 PSE Share	37	39	39	39	38	39	38	39	39	39	39	38	37	37
20 Debit for Rock Island #1 After Enc	169	174	175	175	171	173	171	174	175	176	175	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	12	12	12	12	12	12	12	12	12	12	12	12	12	12
22 Credit for Rock Island #2	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	109	108	108	108	109	108	109	108	108	109	109	109	110	110
26 CHPD Share	217	216	216	216	217	216	217	216	216	217	217	217	219	219
27 PSE Share	105	104	104	104	104	104	104	104	104	105	104	105	105	105
28 Debit for Rock Island #2 After Enc	401	428	429	429	429	428	430	428	429	430	430	431	434	434

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	65	65	65	65	65	65	65	65	65	64	64	64	64	64
2 Credit for Rocky Reach	-65	-65	-65	-65	-65	-65	-65	-65	-65	-64	-64	-64	-64	-64
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	321	321	320	320	321	321	321	321	320	320	320	321	321	322
6 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	602	601	600	600	602	601	602	601	600	599	599	601	601	602
8 DOPD Share	68	68	68	68	68	68	68	68	68	68	68	68	68	69
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	309	308	308	308	309	308	309	308	308	308	308	309	309	309
12 Debit for Rocky Reach After Enc	1200	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	19	19	19	19	19	19	19	19	19	19	19	19	19	19
14 Credit for Rock Island #1	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19
15 Credit for Rock Island #1	154	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	154	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	39	40	41	41	40	40	39	40	41	41	41	39	38	38
18 CHPD Share	92	95	95	95	94	95	93	95	95	96	96	93	91	91
19 PSE Share	37	39	39	39	38	39	38	39	39	39	39	38	37	37
20 Debit for Rock Island #1 After Enc	169	174	175	175	171	173	171	174	175	176	175	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	12	12	12	12	12	12	12	12	12	12	12	12	12	12
22 Credit for Rock Island #2	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	109	108	108	108	109	108	109	108	108	109	109	109	110	110
26 CHPD Share	217	216	216	216	217	216	217	216	216	217	217	217	219	219
27 PSE Share	105	104	104	104	104	104	104	104	104	105	104	105	105	105
28 Debit for Rock Island #2 After Enc	401	428	429	429	429	428	430	428	429	430	430	431	434	434

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	64	64	64	64	64	64	64	64	64	64	64	64	64	64
2 Credit for Rocky Reach	-64	-64	-64	-64	-64	-64	-64	-64	-64	-64	-64	-64	-64	-64
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	321	321	320	320	321	321	321	321	321	320	320	321	321	322
6 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	601	600	600	600	601	601	601	600	600	599	599	601	601	602
8 DOPD Share	69	68	68	68	68	68	68	68	68	68	68	68	68	69
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	309	309	308	308	309	309	309	309	308	308	308	309	309	309
12 Debit for Rocky Reach After Enc	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	19	19	19	19	19	19	19	19	19	19	19	19	19	19
14 Credit for Rock Island #1	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19
15 Credit for Rock Island #1	154	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	154	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	39	40	41	41	40	40	39	40	41	41	41	39	38	38
18 CHPD Share	92	95	95	95	94	95	93	95	95	96	96	93	91	91
19 PSE Share	37	39	39	39	38	39	38	39	39	39	39	38	37	37
20 Debit for Rock Island #1 After Enc	169	174	175	175	171	173	171	174	175	176	175	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	12	12	12	12	12	12	12	12	12	12	12	12	12	12
22 Credit for Rock Island #2	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	109	108	108	108	109	108	109	108	108	109	109	109	110	110
26 CHPD Share	217	216	216	216	217	216	217	216	216	217	217	217	219	219
27 PSE Share	105	104	104	104	104	104	104	104	104	105	104	105	105	105
28 Debit for Rock Island #2 After Enc	401	428	429	429	429	428	430	428	429	430	430	431	434	434

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	64	64	64	64	64	64	64	64	64	63	63	63	63	63
2 Credit for Rocky Reach	-64	-64	-64	-64	-64	-64	-64	-64	-64	-63	-63	-63	-63	-63
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	321	321	320	320	321	321	321	321	321	320	320	322	322	322
6 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	601	600	600	600	601	601	601	600	600	598	598	601	601	601
8 DOPD Share	69	68	68	68	68	68	68	68	68	68	68	69	69	69
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	309	309	308	308	309	309	309	309	308	308	308	309	309	310
12 Debit for Rocky Reach After Enc	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	19	19	19	19	19	19	19	19	19	19	19	19	19	19
14 Credit for Rock Island #1	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19
15 Credit for Rock Island #1	154	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	154	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	39	40	41	41	40	40	39	40	41	41	41	39	38	38
18 CHPD Share	92	95	95	95	94	95	93	95	95	96	96	93	91	91
19 PSE Share	37	39	39	39	38	39	38	39	39	39	39	38	37	37
20 Debit for Rock Island #1 After Enc	169	174	175	175	171	173	171	174	175	176	175	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	12	12	12	12	12	12	12	12	12	12	12	12	12	12
22 Credit for Rock Island #2	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	109	108	108	108	109	108	109	108	108	109	109	109	110	110
26 CHPD Share	217	216	216	216	217	216	217	216	216	217	217	217	219	219
27 PSE Share	105	104	104	104	104	104	104	104	104	105	104	105	105	105
28 Debit for Rock Island #2 After Enc	401	428	429	429	429	428	430	428	429	430	430	431	434	434

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	63	63	63	63	63	63	63	63	63	62	62	62	62	62
2 Credit for Rocky Reach	-63	-63	-63	-63	-63	-63	-63	-63	-63	-62	-62	-62	-62	-62
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	322	321	321	321	322	321	322	321	321	320	321	322	322	322
6 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	601	600	599	599	600	600	601	600	599	598	598	600	600	601
8 DOPD Share	69	68	68	68	69	68	69	68	68	68	68	69	69	69
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	309	309	308	308	309	309	309	309	308	308	308	310	310	310
12 Debit for Rocky Reach After Enc	1300	1298	1296	1297	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	19	19	19	19	19	19	19	19	19	18	18	18	18	18
14 Credit for Rock Island #1	-19	-19	-19	-19	-19	-19	-19	-19	-19	-18	-18	-18	-18	-18
15 Credit for Rock Island #1	154	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	154	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	39	40	41	41	40	40	39	40	41	41	41	39	39	38
18 CHPD Share	92	95	95	95	94	95	93	95	95	95	95	92	91	90
19 PSE Share	37	39	39	39	38	39	38	39	39	39	39	38	37	37
20 Debit for Rock Island #1 After Enc	169	174	175	175	171	173	171	174	175	176	175	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	12	12	12	12	12	12	12	12	12	12	12	12	12	12
22 Credit for Rock Island #2	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	109	108	108	108	109	108	109	108	108	109	109	109	110	110
26 CHPD Share	217	216	216	216	217	216	217	216	216	217	217	217	219	219
27 PSE Share	105	104	104	104	104	104	104	104	104	105	104	105	105	105
28 Debit for Rock Island #2 After Enc	401	428	429	429	429	428	430	428	429	430	430	431	434	434

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	62	62	62	62	62	62	62	62	62	62	62	62	62	62
2 Credit for Rocky Reach	-62	-62	-62	-62	-62	-62	-62	-62	-62	-62	-62	-62	-62	-62
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	322	321	321	321	322	322	322	321	321	320	321	322	322	322
6 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	600	599	598	599	600	600	600	599	599	598	598	600	600	601
8 DOPD Share	69	68	68	68	69	69	69	68	68	68	68	69	69	69
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	310	309	309	309	309	309	309	309	309	308	308	310	310	310
12 Debit for Rocky Reach After Enc	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	18	18	18	18	18	18	18	18	18	18	18	18	18	18
14 Credit for Rock Island #1	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18
15 Credit for Rock Island #1	154	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	154	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	39	41	41	41	40	40	40	41	41	41	41	39	39	38
18 CHPD Share	92	95	95	95	93	94	93	95	95	95	95	92	91	90
19 PSE Share	38	39	39	39	38	39	38	39	39	39	39	38	37	37
20 Debit for Rock Island #1 After Enc	169	174	175	175	171	173	171	174	175	176	175	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	12	12	12	12	12	12	12	12	12	12	12	12	12	12
22 Credit for Rock Island #2	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	109	108	108	108	109	108	109	108	108	109	109	109	110	110
26 CHPD Share	217	216	216	216	217	216	217	216	216	217	217	217	219	219
27 PSE Share	105	104	104	104	104	104	104	104	104	105	104	105	105	105
28 Debit for Rock Island #2 After Enc	431	428	429	429	429	428	430	428	429	430	430	431	434	434

**Table A-19: Rocky Reach and Rock Island Allocation
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Rocky Reach-														
1 Credit for Rocky Reach	62	62	62	62	62	62	62	62	62	61	61	61	61	61
2 Credit for Rocky Reach	-62	-62	-62	-62	-62	-62	-62	-62	-62	-61	-61	-61	-61	-61
3 Credit for Rocky Reach	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
4 Credit for Rocky Reach Before Enc	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
-Debit for Rocky Reach-														
5 APGI Share	322	321	321	321	322	322	322	321	321	321	321	322	322	322
6 AVWP Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CHPD Share	600	599	598	599	600	600	600	599	599	597	597	599	600	600
8 DOPD Share	69	68	68	68	69	69	69	68	68	68	68	69	69	69
9 PGE Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL Share	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PSE Share	310	309	309	309	309	309	309	309	309	308	308	310	310	310
12 Debit for Rocky Reach After Enc	1300	1298	1296	1296	1300	1299	1300	1298	1297	1295	1295	1300	1300	1301
-Credit for Rock Island #1-														
13 Credit for Rock Island #1	18	18	18	18	18	18	18	18	18	18	18	18	18	18
14 Credit for Rock Island #1	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18
15 Credit for Rock Island #1	154	158	158	158	156	158	156	158	158	158	158	154	152	151
16 Credit for Rock Island #1 Before Enc	154	158	158	158	156	158	156	158	158	158	158	154	152	151
-Debit for Rock Island #1-														
17 APGI Share	39	41	41	41	40	40	40	41	41	41	41	39	39	38
18 CHPD Share	92	95	95	95	93	94	93	95	95	95	95	92	91	90
19 PSE Share	38	39	39	39	38	39	38	39	39	39	39	38	37	37
20 Debit for Rock Island #1 After Enc	169	174	175	175	171	173	171	174	175	176	175	170	166	166
-Credit for Rock Island #2-														
21 Credit for Rock Island #2	12	12	12	12	12	12	12	12	12	11	11	11	11	11
22 Credit for Rock Island #2	-12	-12	-12	-12	-12	-12	-12	-12	-12	-11	-11	-11	-11	-11
23 Credit for Rock Island #2	393	388	388	388	391	389	391	388	388	388	388	392	395	396
24 Credit for Rock Island #2 Before Enc	393	388	388	388	391	389	391	388	388	388	388	392	395	396
-Debit for Rock Island #2-														
25 APGI Share	109	108	108	108	109	108	109	108	108	109	109	109	110	110
26 CHPD Share	217	216	216	216	217	216	217	216	216	216	216	217	218	218
27 PSE Share	105	104	104	104	104	104	104	104	104	105	105	105	106	106
28 Debit for Rock Island #2 After Enc	431	428	429	429	429	428	430	428	429	430	430	431	434	434

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Table A-20
Wanapum & Priest Rapids Allocation
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	51	51	51	51	51	51	51	51	51	50	50	50	50	50
2 Credit for Wanapum	-51	-51	-51	-51	-51	-51	-51	-51	-51	-50	-50	-50	-50	-50
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	28	28	28	28	27	27	27	27	27	27	27	27	27	27
6 COPD Share	12	12	12	12	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
7 EWEB Share	1.3	1.3	1.3	1.3	1	1	1	1	1	1	1	1	1	1
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
9 GCPD Share	471	471	471	471	489	489	489	489	489	489	489	489	489	489
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12 MTFR Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13 PGE Share	63	63	63	63	61	61	61	61	61	61	61	61	61	61
14 PNWMktr Share	111	111	111	111	142	142	142	142	142	142	142	142	142	142
15 PPL Share	28	28	28	28	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
16 PSE Share	6.1	6.1	6.1	6.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
17 SCL Share	15	15	15	15	2	2	2	2	2	2	2	2	2	2
18 TPU Share	2.7	2.7	2.7	2.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	53	53	53	53	53	53	53	53	53	52	52	52	52	52
21 Credit for Priest Rapids	-53	-53	-53	-53	-53	-53	-53	-53	-53	-52	-52	-52	-52	-52
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	28	28	28	28	27	27	27	27	27	27	27	27	27	27
25 COPD Share	13	13	13	13	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
26 EWEB Share	1.3	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
27 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0
28 GCPD Share	475	475	475	475	493	493	493	493	493	493	493	493	493	493
29 KITT Share	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
30 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0
31 MTFR Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0
32 PGE Share	63	63	63	63	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	112	112	112	112	142	142	142	142	142	142	142	142	142	142
34 PPL Share	28	28	28	28	8.3	8.3	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.4
35 PSE Share	6.2	6.2	6.2	6.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
36 SCL Share	16	16	16	16	2	2	2	2	2	2	2	2	2	2
37 TPU Share	2.7	2.7	2.7	2.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
38 Debit for Priest Rapids After Enc	754	754	754	754	754	754	754	754	754	754	754	754	754	754

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	50	50	50	50	50	50	50	50	50	49	49	49	49	49
2 Credit for Wanapum	-50	-50	-50	-50	-50	-50	-50	-50	-50	-49	-49	-49	-49	-49
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COPD Share	3.1	3.1	3.1	3.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
7 EWEB Share	1	1	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
9 GCPD Share	489	489	489	489	493	493	493	493	493	492	492	492	492	492
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12 MTFR Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13 PGE Share	61	61	61	61	60	60	60	60	60	60	60	60	60	60
14 PNWMktr Share	142	142	142	142	142	142	142	142	142	142	142	142	142	142
15 PPL Share	8.3	8.3	8.3	8.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
16 PSE Share	4.8	4.8	4.8	4.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
17 SCL Share	2	2	2	2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
18 TPU Share	2.2	2.2	2.2	2.2	2	2	2	2	2	2	2	2	2	2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	52	52	52	52	52	52	52	52	52	51	51	51	51	51
21 Credit for Priest Rapids	-52	-52	-52	-52	-52	-52	-52	-52	-52	-51	-51	-51	-51	-51
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
25 COPD Share	3.1	3.1	3.1	3.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
26 EWEB Share	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
27 FGRV Share	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
28 GCPD Share	493	493	493	493	497	497	497	497	497	496	496	496	496	496
29 KITT Share	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
30 MCMN Share	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
31 MTFR Share	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
32 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	142	142	142	142	142	142	142	142	142	143	143	143	143	143
34 PPL Share	8.4	8.4	8.4	8.4	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
35 PSE Share	4.8	4.8	4.8	4.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
36 SCL Share	2	2	2	2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
37 TPU Share	2.2	2.2	2.2	2.2	2	2	2	2	2	2	2	2	2	2
38 Debit for Priest Rapids After Enc	754	754	754	754	754	754	754	754	754	755	755	755	755	755

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	49	49	49	49	49	49	49	49	49	49	49	49	49	49
2 Credit for Wanapum	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COPD Share	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
7 EWEB Share	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
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
9 GCPD Share	492	492	492	492	492	492	492	492	492	492	492	492	492	492
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12 MTRF Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13 PGE Share	60	60	60	60	60	60	60	60	60	60	60	60	60	60
14 PNWMktr Share	142	142	142	142	142	142	142	142	142	142	142	142	142	142
15 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
16 PSE Share	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
17 SCL Share	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 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	51	51	51	51	51	51	51	51	51	51	51	51	51	51
21 Credit for Priest Rapids	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
25 COPD Share	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
26 EWEB Share	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
27 FGRV Share	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
28 GCPD Share	496	496	496	496	496	496	496	496	496	496	496	496	496	496
29 KITT Share	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
30 MCMN Share	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
31 MTRF Share	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
32 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	143	143	143	143	143	143	143	143	143	143	143	143	143	143
34 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
35 PSE Share	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
36 SCL Share	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
37 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
38 Debit for Priest Rapids After Enc	755	755	755	755	755	755	755	755	755	755	755	755	755	755

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	49	49	49	49	49	49	49	49	49	49	49	49	49	49
2 Credit for Wanapum	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COPD Share	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
7 EWEB Share	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
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
9 GCPD Share	492	492	492	492	492	492	492	492	492	492	492	492	492	492
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12 MTRF Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13 PGE Share	60	60	60	60	60	60	60	60	60	60	60	60	60	60
14 PNWMktr Share	142	142	142	142	142	142	142	142	142	142	142	142	142	142
15 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
16 PSE Share	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
17 SCL Share	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 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	51	51	51	51	51	51	51	51	51	51	51	51	51	51
21 Credit for Priest Rapids	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
25 COPD Share	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
26 EWEB Share	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
27 FGRV Share	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
28 GCPD Share	496	496	496	496	496	496	496	496	496	496	496	496	496	496
29 KITT Share	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
30 MCMN Share	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
31 MTRF Share	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
32 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	143	143	143	143	143	143	143	143	143	143	143	143	143	143
34 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
35 PSE Share	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
36 SCL Share	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
37 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
38 Debit for Priest Rapids After Enc	755	755	755	755	755	755	755	755	755	755	755	755	755	755

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	49	49	49	49	49	49	49	49	49	49	49	49	49	49
2 Credit for Wanapum	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COPD Share	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
7 EWEB Share	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
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
9 GCPD Share	492	492	492	492	492	492	492	492	492	492	492	492	492	492
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12 MTFR Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13 PGE Share	60	60	60	60	60	60	60	60	60	60	60	60	60	60
14 PNWMktr Share	142	142	142	142	142	142	142	142	142	142	142	142	142	142
15 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
16 PSE Share	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
17 SCL Share	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 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	51	51	51	51	51	51	51	51	51	50	50	50	50	50
21 Credit for Priest Rapids	-51	-51	-51	-51	-51	-51	-51	-51	-51	-50	-50	-50	-50	-50
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
25 COPD Share	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
26 EWEB Share	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
27 FGRV Share	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
28 GCPD Share	496	496	496	496	496	496	496	496	496	496	496	496	496	496
29 KITT Share	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
30 MCMN Share	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
31 MTFR Share	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
32 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	143	143	143	143	143	143	143	143	143	143	143	143	143	143
34 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
35 PSE Share	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
36 SCL Share	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
37 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
38 Debit for Priest Rapids After Enc	755	755	755	755	755	755	755	755	755	754	754	754	754	754

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	49	49	49	49	49	49	49	49	49	48	48	48	48	48
2 Credit for Wanapum	-49	-49	-49	-49	-49	-49	-49	-49	-49	-48	-48	-48	-48	-48
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COPD Share	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
7 EWEB Share	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
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
9 GCPD Share	492	492	492	492	492	492	492	492	492	492	492	492	492	492
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12 MTRF Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13 PGE Share	60	60	60	60	60	60	60	60	60	60	60	60	60	60
14 PNWMktr Share	142	142	142	142	142	142	142	142	142	142	142	142	142	142
15 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
16 PSE Share	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
17 SCL Share	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 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	50	50	50	50	50	50	50	50	50	50	50	50	50	50
21 Credit for Priest Rapids	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
25 COPD Share	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
26 EWEB Share	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
27 FGRV Share	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
28 GCPD Share	496	496	496	496	496	496	496	496	496	496	496	496	496	496
29 KITT Share	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
30 MCMN Share	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
31 MTRF Share	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
32 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	143	143	143	143	143	143	143	143	143	143	143	143	143	143
34 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
35 PSE Share	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
36 SCL Share	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
37 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
38 Debit for Priest Rapids After Enc	754	754	754	754	754	754	754	754	754	754	754	754	754	754

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	48	48	48	48	48	48	48	48	48	48	48	48	48	48
2 Credit for Wanapum	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COPD Share	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
7 EWEB Share	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
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
9 GCPD Share	492	492	492	492	492	492	492	492	492	492	492	492	492	492
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12 MTRF Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13 PGE Share	60	60	60	60	60	60	60	60	60	60	60	60	60	60
14 PNWMktr Share	142	142	142	142	142	142	142	142	142	142	142	142	142	142
15 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
16 PSE Share	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
17 SCL Share	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 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	50	50	50	50	50	50	50	50	50	49	49	49	49	49
21 Credit for Priest Rapids	-50	-50	-50	-50	-50	-50	-50	-50	-50	-49	-49	-49	-49	-49
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
25 COPD Share	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
26 EWEB Share	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
27 FGRV Share	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
28 GCPD Share	496	496	496	496	496	496	496	496	496	496	496	496	496	496
29 KITT Share	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
30 MCMN Share	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
31 MTRF Share	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
32 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	143	143	143	143	143	143	143	143	143	143	143	143	143	143
34 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
35 PSE Share	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
36 SCL Share	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
37 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
38 Debit for Priest Rapids After Enc	754	754	754	754	754	754	754	754	754	755	755	755	755	755

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	48	48	48	48	48	48	48	48	48	47	47	47	47	47
2 Credit for Wanapum	-48	-48	-48	-48	-48	-48	-48	-48	-48	-47	-47	-47	-47	-47
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COPD Share	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
7 EWEB Share	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
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
9 GCPD Share	492	492	492	492	492	492	492	492	492	492	492	492	492	492
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12 MTFR Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13 PGE Share	60	60	60	60	60	60	60	60	60	61	61	61	61	61
14 PNWMktr Share	142	142	142	142	142	142	142	142	142	142	142	142	142	142
15 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
16 PSE Share	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
17 SCL Share	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 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	49	49	49	49	49	49	49	49	49	49	49	49	49	49
21 Credit for Priest Rapids	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49	-49
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
25 COPD Share	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
26 EWEB Share	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
27 FGRV Share	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
28 GCPD Share	496	496	496	496	496	496	496	496	496	496	496	496	496	496
29 KITT Share	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
30 MCMN Share	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
31 MTFR Share	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
32 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	143	143	143	143	143	143	143	143	143	143	143	143	143	143
34 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
35 PSE Share	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
36 SCL Share	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
37 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
38 Debit for Priest Rapids After Enc	755	755	755	755	755	755	755	755	755	755	755	755	755	755

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	47	47	47	47	47	47	47	47	47	47	47	47	47	47
2 Credit for Wanapum	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COPD Share	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
7 EWEB Share	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
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
9 GCPD Share	492	492	492	492	492	492	492	492	492	492	492	492	492	492
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12 MTRF Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
13 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
14 PNWMktr Share	142	142	142	142	142	142	142	142	142	142	142	142	142	142
15 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
16 PSE Share	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
17 SCL Share	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 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	49	49	49	49	49	49	49	49	49	48	48	48	48	48
21 Credit for Priest Rapids	-49	-49	-49	-49	-49	-49	-49	-49	-49	-48	-48	-48	-48	-48
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
25 COPD Share	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
26 EWEB Share	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
27 FGRV Share	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
28 GCPD Share	496	496	496	496	496	496	496	496	496	495	495	495	495	495
29 KITT Share	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
30 MCMN Share	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
31 MTRF Share	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
32 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	143	143	143	143	143	143	143	143	143	143	143	143	143	143
34 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
35 PSE Share	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
36 SCL Share	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
37 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
38 Debit for Priest Rapids After Enc	755	755	755	755	755	755	755	755	755	754	754	754	754	754

**Table A-20: Wanapum and Priest Rapids Allocation
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Credit for Wanapum-														
1 Credit for Wanapum	47	47	47	47	47	47	47	47	47	46	46	46	46	46
2 Credit for Wanapum	-47	-47	-47	-47	-47	-47	-47	-47	-47	-46	-46	-46	-46	-46
3 Credit for Wanapum	825	825	825	825	825	825	825	825	825	825	825	825	825	825
4 Credit for Wanapum Before Enc	825	825	825	825	825	825	825	825	825	825	825	825	825	825
-Debit for Wanapum-														
5 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6 COPD Share	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
7 EWEB Share	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
8 FGRV Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0
9 GCPD Share	492	492	492	492	492	492	492	492	492	491	491	491	491	491
10 KITT Share	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
11 MCMN Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0
12 MTRF Share	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0
13 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
14 PNWMktr Share	142	142	142	142	142	142	142	142	142	143	143	143	143	143
15 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
16 PSE Share	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
17 SCL Share	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 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 Debit for Wanapum After Enc	749	749	749	749	749	749	749	749	749	749	749	749	749	749
-Credit for Priest Rapids-														
20 Credit for Priest Rapids	48	48	48	48	48	48	48	48	48	48	48	48	48	48
21 Credit for Priest Rapids	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48
22 Credit for Priest Rapids	770	770	770	770	770	770	770	770	770	770	770	770	770	770
23 Credit for Priest Rapids Before Enc	770	770	770	770	770	770	770	770	770	770	770	770	770	770
-Debit for Priest Rapids-														
24 AVWP Share	27	27	27	27	27	27	27	27	27	27	27	27	27	27
25 COPD Share	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
26 EWEB Share	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
27 FGRV Share	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
28 GCPD Share	495	495	495	495	495	495	495	495	495	495	495	495	495	495
29 KITT Share	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
30 MCMN Share	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
31 MTRF Share	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
32 PGE Share	61	61	61	61	61	61	61	61	61	61	61	61	61	61
33 PNWMktr Share	143	143	143	143	143	143	143	143	143	143	143	143	143	143
34 PPL Share	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
35 PSE Share	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
36 SCL Share	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
37 TPU Share	2	2	2	2	2	2	2	2	2	2	2	2	2	2
38 Debit for Priest Rapids After Enc	754	754	754	754	754	754	754	754	754	754	754	754	754	754

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Table A-21
Swift #1 and Swift #2 Allocation
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	261	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	261	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	68	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	193	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	261	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	64	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	64	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	17	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	47	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	64	0.1	0.1	76	76	76	76	76	0.1	76	63	58

**Table A-21: Swift #1 and Swift #2 Allocation
 PNW Loads and Resource Study
 2012 - 2013 Operating Year
 1937 Water Year
 [76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	55	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	158	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	16	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	45	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58

**Table A-21: Swift #1 and Swift #2 Allocation
 PNW Loads and Resource Study
 2013 - 2014 Operating Year
 1937 Water Year
 [76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	55	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	158	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	16	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	45	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58

**Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	55	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	158	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	16	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	45	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58

**Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	55	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	158	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	16	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	45	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58

**Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	55	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	158	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	16	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	45	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58

**Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	55	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	158	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	16	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	45	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58

**Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	55	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	158	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	16	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	45	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58

**Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	55	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	158	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	16	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	45	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58

**Table A-21: Swift #1 and Swift #2 Allocation
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Swift 1-														
1 Swift 1	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
2 Swift 1 Before Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 1-														
3 COPD Share	69	68	55	0.1	0.1	47	47	42	39	41	0.1	61	69	70
4 PPL Share	196	194	158	0.1	0.1	134	135	120	112	117	0.1	172	196	198
5 Swift 1 After Enc	265	263	213	0.2	0.2	181	182	162	152	158	0.2	233	265	268
-Swift 2-														
6 Swift 2	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
7 Swift 2 Before Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58
-Swift 2-														
8 COPD Share	16	16	16	0	0	20	20	20	20	20	0	20	16	15
9 PPL Share	44	46	45	0.1	0.1	56	56	56	56	56	0.1	56	46	43
10 Swift 2 After Enc	60	62	61	0.1	0.1	76	76	76	76	76	0.1	76	63	58

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Table A-22
BPA Power Sale Contracts
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	132	132	125	141	171	194	188	170	177	142	142	133	135	140
2 Total Federal Entities	132	132	125	141	171	194	188	170	177	142	142	133	135	140
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
6 Total Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
-Generating Public Entities-														
7 Generating Public Entities	2539	2539	2489	1468	1847	2039	2079	1890	1793	1459	1459	1224	1096	1293
8 Total Generating Public Entities	2539	2539	2489	1468	1847	2039	2079	1890	1793	1459	1459	1224	1096	1293
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	1588	1317	1211	1705	2345	2404	2593	2259	2130	1796	2201	2606	2330	2474
10 Total Generating Public Entities (Slice)	1588	1317	1211	1705	2345	2404	2593	2259	2130	1796	2201	2606	2330	2474
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	3674	3674	3763	4360	4819	5630	5453	5116	4703	4531	4531	4307	4319	4510
12 Total Non-Generating Public Entities	3674	3674	3763	4360	4819	5630	5453	5116	4703	4531	4531	4307	4319	4510
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	954	790	727	418	575	589	636	554	522	440	539	639	571	606
14 Total Non-Generating Public Entities (Slice)	954	790	727	418	575	589	636	554	522	440	539	639	571	606
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	132	132	125	141	171	194	188	170	177	142	142	133	135	140
20 U.S. Bureau of Reclamation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
21 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
22 Generating Public Entities	4128	3856	3700	3174	4192	4443	4672	4149	3923	3255	3659	3831	3425	3767
23 Non-Generating Public Entities	4628	4464	4490	4778	5394	6219	6089	5670	5225	4971	5070	4946	4890	5116
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	9881	9445	9234	8950	10258	11460	11304	10630	10076	9171	9675	9830	9401	10033

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	132	132	125	147	179	202	190	175	180	144	144	134	137	141
2 Total Federal Entities	132	132	125	147	179	202	190	175	180	144	144	134	137	141
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
6 Total Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
-Generating Public Entities-														
7 Generating Public Entities	1312	1312	1441	1510	1903	2102	2144	2011	1847	1500	1500	1261	1129	1331
8 Total Generating Public Entities	1312	1312	1441	1510	1903	2102	2144	2011	1847	1500	1500	1261	1129	1331
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	2259	1924	1769	1706	2476	2422	2609	2207	2079	1752	2182	2408	2111	2499
10 Total Generating Public Entities (Slice)	2259	1924	1769	1706	2476	2422	2609	2207	2079	1752	2182	2408	2111	2499
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	4388	4388	4165	4437	4898	5715	5533	5256	4781	4608	4608	4391	4401	4638
12 Total Non-Generating Public Entities	4388	4388	4165	4437	4898	5715	5533	5256	4781	4608	4608	4391	4401	4638
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	554	472	434	418	607	594	640	541	510	430	535	590	518	613
14 Total Non-Generating Public Entities (Slice)	554	472	434	418	607	594	640	541	510	430	535	590	518	613
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	132	132	125	147	179	202	190	175	180	144	144	134	137	141
20 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
21 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
22 Generating Public Entities	3570	3236	3211	3216	4379	4523	4753	4218	3927	3253	3682	3669	3240	3830
23 Non-Generating Public Entities	4942	4860	4599	4855	5505	6308	6172	5797	5290	5037	5143	4982	4918	5251
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	9638	9221	8853	9074	10564	11637	11471	10832	10148	9237	9772	9705	9245	10233

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	134	134	126	149	181	204	203	186	192	152	152	144	146	150
2 Total Federal Entities	134	134	126	149	181	204	203	186	192	152	152	144	146	150
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
6 Total Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
-Generating Public Entities-														
7 Generating Public Entities	1349	1349	1483	1496	1887	2083	2126	1995	1832	1486	1486	1250	1119	1319
8 Total Generating Public Entities	1349	1349	1483	1496	1887	2083	2126	1995	1832	1486	1486	1250	1119	1319
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	265	1909	1756	1799	2315	2410	2561	2184	2062	1810	2147	2588	2339	2414
10 Total Generating Public Entities (Slice)	265	1909	1756	1799	2315	2410	2561	2184	2062	1810	2147	2588	2339	2414
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	4510	4510	4292	4525	4996	5841	5652	5340	4880	4698	4698	4472	4471	4664
12 Total Non-Generating Public Entities	4510	4510	4292	4525	4996	5841	5652	5340	4880	4698	4698	4472	4471	4664
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	468	468	430	441	567	591	628	535	505	444	526	634	573	592
14 Total Non-Generating Public Entities (Slice)	468	468	430	441	567	591	628	535	505	444	526	634	573	592
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	134	134	126	149	181	204	203	186	192	152	152	144	146	150
20 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
21 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
22 Generating Public Entities	3615	3258	3240	3295	4202	4493	4687	4179	3894	3296	3634	3838	3458	3733
23 Non-Generating Public Entities	5065	4977	4723	4966	5563	6432	6279	5875	5385	5142	5225	5106	5044	5255
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	9806	9362	9008	9267	10447	11733	11525	10880	10222	9393	9813	10008	9598	10150

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	143	143	135	160	196	220	216	198	205	160	160	154	156	160
2 Total Federal Entities	143	143	135	160	196	220	216	198	205	160	160	154	156	160
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
6 Total Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
-Generating Public Entities-														
7 Generating Public Entities	1337	1337	1470	1533	1935	2136	2180	2044	1878	1524	1524	1285	1150	1354
8 Total Generating Public Entities	1337	1337	1470	1533	1935	2136	2180	2044	1878	1524	1524	1285	1150	1354
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	262	1896	1750	1696	2312	2453	2549	2155	2062	1770	1318	2425	2019	2489
10 Total Generating Public Entities (Slice)	262	1896	1750	1696	2312	2453	2549	2155	2062	1770	1318	2425	2019	2489
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	4540	4540	4314	4571	5044	5894	5706	5416	4928	4747	4747	4524	4525	4721
12 Total Non-Generating Public Entities	4540	4540	4314	4571	5044	5894	5706	5416	4928	4747	4747	4524	4525	4721
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	554	465	429	416	567	601	625	528	505	434	323	594	495	610
14 Total Non-Generating Public Entities (Slice)	554	465	429	416	567	601	625	528	505	434	323	594	495	610
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	143	143	135	160	196	220	216	198	205	160	160	154	156	160
20 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
21 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
22 Generating Public Entities	3599	3234	3220	3229	4247	4589	4729	4199	3941	3294	2842	3710	3169	3844
23 Non-Generating Public Entities	5094	5005	4743	4986	5611	6496	6331	5944	5433	5181	5070	5119	5020	5331
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	9830	9374	9017	9232	10554	11909	11630	10982	10330	9438	8875	9903	9296	10345

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	153	153	144	172	212	237	223	201	211	164	164	159	161	165
2 Total Federal Entities	153	153	144	172	212	237	223	201	211	164	164	159	161	165
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
6 Total Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
-Generating Public Entities-														
7 Generating Public Entities	1372	1372	1507	1520	1918	2118	2162	1964	1861	1511	1511	1276	1142	1344
8 Total Generating Public Entities	1372	1372	1507	1520	1918	2118	2162	1964	1861	1511	1511	1276	1142	1344
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	257	1880	1738	1657	2279	2432	2551	2145	2018	1768	2074	2583	2296	2408
10 Total Generating Public Entities (Slice)	257	1880	1738	1657	2279	2432	2551	2145	2018	1768	2074	2583	2296	2408
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	4594	4594	4361	4613	5088	5942	5752	5391	4968	4785	4785	4565	4564	4761
12 Total Non-Generating Public Entities	4594	4594	4361	4613	5088	5942	5752	5391	4968	4785	4785	4565	4564	4761
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	559	461	426	406	559	596	625	526	495	433	508	633	563	590
14 Total Non-Generating Public Entities (Slice)	559	461	426	406	559	596	625	526	495	433	508	633	563	590
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	153	153	144	172	212	237	223	201	211	164	164	159	161	165
20 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
21 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
22 Generating Public Entities	3630	3252	3245	3176	4198	4550	4713	4109	3880	3278	3585	3859	3437	3752
23 Non-Generating Public Entities	5148	5055	4787	5019	5647	6538	6377	5917	5462	5218	5293	5198	5127	5351
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	9923	9453	9096	9225	10557	11929	11667	10867	10304	9464	9846	10136	9676	10278

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	157	157	149	178	219	245	254	233	243	183	183	182	186	188
2 Total Federal Entities	157	157	149	178	219	245	254	233	243	183	183	182	186	188
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
6 Total Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
-Generating Public Entities-														
7 Generating Public Entities	1361	1361	1494	1557	1965	2168	2213	2075	1906	1547	1547	1309	1171	1377
8 Total Generating Public Entities	1361	1361	1494	1557	1965	2168	2213	2075	1906	1547	1547	1309	1171	1377
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	204	1875	1774	1640	2265	2369	2551	2173	2133	1798	2090	2375	2042	2466
10 Total Generating Public Entities (Slice)	204	1875	1774	1640	2265	2369	2551	2173	2133	1798	2090	2375	2042	2466
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	4633	4633	4399	4653	5127	5987	5798	5504	5009	4826	4826	4606	4608	4807
12 Total Non-Generating Public Entities	4633	4633	4399	4653	5127	5987	5798	5504	5009	4826	4826	4606	4608	4807
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	459	459	435	402	555	581	625	533	523	441	512	582	501	604
14 Total Non-Generating Public Entities (Slice)	459	459	435	402	555	581	625	533	523	441	512	582	501	604
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	157	157	149	178	219	245	254	233	243	183	183	182	186	188
20 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
21 Direct Service Industry	340	340	340	340	340	340	340	340	340	340	340	340	340	340
22 Generating Public Entities	3565	3236	3268	3196	4230	4537	4764	4248	4040	3345	3637	3684	3213	3843
23 Non-Generating Public Entities	5173	5093	4833	5055	5683	6568	6424	6036	5531	5267	5339	5188	5108	5412
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	9889	9479	9168	9286	10632	11954	11797	11158	10565	9599	9963	9974	9457	10454

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	181	181	171	207	257	286	258	233	246	186	186	185	188	191
2 Total Federal Entities	181	181	171	207	257	286	258	233	246	186	186	185	188	191
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	340	340	340	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	340	340	340	0	0	0	0	0	0	0	0	0	0	0
-Generating Public Entities-														
7 Generating Public Entities	1395	1395	1531	1534	1936	2135	2210	2075	1908	1554	1554	1319	1184	1387
8 Total Generating Public Entities	1395	1395	1531	1534	1936	2135	2210	2075	1908	1554	1554	1319	1184	1387
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	2218	1876	1753	1665	2295	2447	2565	2160	2025	1779	2085	2581	2294	2405
10 Total Generating Public Entities (Slice)	2218	1876	1753	1665	2295	2447	2565	2160	2025	1779	2085	2581	2294	2405
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	4678	4678	4439	4677	5153	6015	5847	5526	5058	4877	4877	4659	4662	4864
12 Total Non-Generating Public Entities	4678	4678	4439	4677	5153	6015	5847	5526	5058	4877	4877	4659	4662	4864
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	460	460	430	408	562	600	629	529	496	436	511	633	562	589
14 Total Non-Generating Public Entities (Slice)	460	460	430	408	562	600	629	529	496	436	511	633	562	589
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	181	181	171	207	257	286	258	233	246	186	186	185	188	191
20 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
21 Direct Service Industry	340	340	340	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3613	3271	3284	3200	4230	4582	4775	4235	3932	3333	3639	3900	3479	3792
23 Non-Generating Public Entities	5222	5138	4869	5085	5715	6615	6475	6055	5554	5313	5388	5292	5225	5453
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	10009	9583	9243	9008	10363	11746	11523	10823	10144	9295	9676	9957	9501	10106

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	183	183	174	210	261	290	260	238	249	187	187	187	190	192
2 Total Federal Entities	183	183	174	210	261	290	260	238	249	187	187	187	190	192
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	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
-Generating Public Entities-														
7 Generating Public Entities	1405	1405	1538	1599	2008	2212	2257	2119	1949	1589	1589	1350	1212	1419
8 Total Generating Public Entities	1405	1405	1538	1599	2008	2212	2257	2119	1949	1589	1589	1350	1212	1419
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	2200	1872	1771	1637	2279	2383	2565	2187	2138	1804	2095	2371	2039	2462
10 Total Generating Public Entities (Slice)	2200	1872	1771	1637	2279	2383	2565	2187	2138	1804	2095	2371	2039	2462
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	4737	4737	4497	4747	5226	6094	5910	5612	5112	4929	4929	4712	4716	4920
12 Total Non-Generating Public Entities	4737	4737	4497	4747	5226	6094	5910	5612	5112	4929	4929	4712	4716	4920
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	509	459	434	401	559	584	629	536	524	442	514	581	500	603
14 Total Non-Generating Public Entities (Slice)	509	459	434	401	559	584	629	536	524	442	514	581	500	603
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	183	183	174	210	261	290	260	238	249	187	187	187	190	192
20 U.S. Bureau of Reclamation	653	653	578	517	160	263	14	300	411	463	463	580	609	670
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3605	3277	3309	3236	4288	4594	4822	4306	4088	3393	3685	3721	3251	3881
23 Non-Generating Public Entities	5276	5196	4932	5148	5785	6678	6538	6148	5636	5372	5443	5293	5216	5523
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	9717	9308	8992	9110	10494	11826	11635	10993	10383	9415	9778	9780	9266	10267

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	185	185	175	212	264	293	262	236	250	188	188	188	191	193
2 Total Federal Entities	185	185	175	212	264	293	262	236	250	188	188	188	191	193
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	656	656	581	518	161	264	15	301	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	656	656	581	518	161	264	15	301	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	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
-Generating Public Entities-														
7 Generating Public Entities	1437	1437	1573	1580	1984	2184	2229	2029	1925	1571	1571	1335	1199	1403
8 Total Generating Public Entities	1437	1437	1573	1580	1984	2184	2229	2029	1925	1571	1571	1335	1199	1403
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	2214	1872	1750	1664	2311	2464	2582	2176	2032	1787	2093	2580	2293	2403
10 Total Generating Public Entities (Slice)	2214	1872	1750	1664	2311	2464	2582	2176	2032	1787	2093	2580	2293	2403
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	4790	4790	4546	4778	5257	6127	5944	5574	5141	4957	4957	4740	4743	4948
12 Total Non-Generating Public Entities	4790	4790	4546	4778	5257	6127	5944	5574	5141	4957	4957	4740	4743	4948
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	459	429	408	566	604	633	533	498	438	513	632	562	589	
14 Total Non-Generating Public Entities (Slice)	459	429	408	566	604	633	533	498	438	513	632	562	589	
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	185	185	175	212	264	293	262	236	250	188	188	188	191	193
20 U.S. Bureau of Reclamation	656	656	581	518	161	264	15	301	411	463	463	580	609	670
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3650	3309	3322	3244	4295	4648	4811	4205	3957	3358	3664	3914	3492	3806
23 Non-Generating Public Entities	5332	5248	4975	5186	5823	6731	6577	6108	5639	5395	5470	5372	5305	5537
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	9824	9398	9054	9160	10542	11935	11665	10850	10257	9404	9785	10054	9598	10207

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	186	186	176	213	265	294	264	242	252	190	190	189	193	195
2 Total Federal Entities	186	186	176	213	265	294	264	242	252	190	190	189	193	195
-U.S. Bureau of Reclamation-														
3 U.S. Bureau of Reclamation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
4 Total U.S. Bureau of Reclamation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
-Direct Service Industry-														
5 Direct Service Industry	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
-Generating Public Entities-														
7 Generating Public Entities	1420	1420	1554	1610	2020	2224	2270	2131	1961	1601	1601	1360	1223	1430
8 Total Generating Public Entities	1420	1420	1554	1610	2020	2224	2270	2131	1961	1601	1601	1360	1223	1430
-Generating Public Entities (Slice)-														
9 Generating Public Entities (Slice)	1199	1871	1770	1636	2296	2399	2581	2204	2146	1812	2103	2370	2037	2461
10 Total Generating Public Entities (Slice)	1199	1871	1770	1636	2296	2399	2581	2204	2146	1812	2103	2370	2037	2461
-Non-Generating Public Entities-														
11 Non-Generating Public Entities	4816	4816	4569	4814	5294	6169	5987	5683	5176	4991	4991	4775	4780	4986
12 Total Non-Generating Public Entities	4816	4816	4569	4814	5294	6169	5987	5683	5176	4991	4991	4775	4780	4986
-Non-Generating Public Entities (Slice)-														
13 Non-Generating Public Entities (Slice)	588	458	434	401	563	588	633	540	526	444	515	581	499	603
14 Total Non-Generating Public Entities (Slice)	588	458	434	401	563	588	633	540	526	444	515	581	499	603
-Investor-Owned Entities-														
15 Investor-Owned Entities	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
-Other Entities-														
17 Other PNW Entities	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
-Power Sales Contracts-														
19 Federal Entities	186	186	176	213	265	294	264	242	252	190	190	189	193	195
20 U.S. Bureau of Reclamation	653	653	578	516	160	263	14	300	411	463	463	580	609	670
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3619	3291	3324	3246	4316	4623	4851	4335	4107	3412	3703	3730	3260	3890
23 Non-Generating Public Entities	5355	5274	5003	5215	5857	6757	6619	6223	5702	5435	5507	5355	5279	5589
24 Investor-Owned Entities	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
26 Total Power Sales Contracts	9812	9403	9081	9190	10598	11937	11748	11099	10472	9500	9863	9854	9341	10345

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Table A-23
Non-Utility Generating Resources
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	202	200	150	96	53	53	53	54	18	146	146	233	253	259
4 Total Generating Public Entities	202	200	150	96	53	53	53	54	18	146	146	233	253	259
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	2.8	2.8	2.8	2.8	2.8	2.8	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	2.8	2.8	2.8	2.8	2.8	2.8	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	609	609	594	565	560	548	524	535	550	584	577	632	628	615
8 Total Investor-owned Entities	609	609	594	565	560	548	524	535	550	584	577	632	628	615
-Other Entities-														
9 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
10 Total Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	204	203	153	98	56	56	71	72	36	164	164	251	271	277
13 Investor-Owned Entities	609	609	594	565	560	548	524	535	550	584	577	632	628	615
14 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
15 Total Non-Utility Generation	824	823	757	676	620	609	600	612	591	753	754	896	911	903

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	202	200	150	96	53	53	57	59	23	151	151	238	258	263
4 Total Generating Public Entities	202	200	150	96	53	53	57	59	23	151	151	238	258	263
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	594	594	579	551	545	533	525	535	550	584	578	633	637	610
8 Total Investor-owned Entities	594	594	579	551	545	533	525	535	550	584	578	633	637	610
-Other Entities-														
9 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
10 Total Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	219	218	168	113	71	71	75	77	41	169	169	256	276	281
13 Investor-Owned Entities	594	594	579	551	545	533	525	535	550	584	578	633	637	610
14 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
15 Total Non-Utility Generation	825	823	758	676	620	609	605	617	596	758	759	901	925	902

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
4 Total Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	594	595	579	551	545	534	526	536	551	585	579	634	629	603
8 Total Investor-owned Entities	594	595	579	551	545	534	526	536	551	585	579	634	629	603
-Other Entities-														
9 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	21
10 Total Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	21
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
13 Investor-Owned Entities	594	595	579	551	545	534	526	536	551	585	579	634	629	603
14 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	21
15 Total Non-Utility Generation	830	828	763	681	625	614	606	618	597	759	760	902	917	909

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
4 Total Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
8 Total Investor-owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
-Other Entities-														
9 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
10 Total Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
13 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
14 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
15 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
4 Total Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
8 Total Investor-owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
-Other Entities-														
9 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
10 Total Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
13 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
14 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
15 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
4 Total Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
8 Total Investor-owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
-Other Entities-														
9 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
10 Total Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
13 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
14 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
15 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
4 Total Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
8 Total Investor-owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
-Other Entities-														
9 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
10 Total Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
13 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
14 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
15 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
4 Total Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	582	583	567	539	533	522	514	524	542	573	571	625	617	602
8 Total Investor-owned Entities	582	583	567	539	533	522	514	524	542	573	571	625	617	602
-Other Entities-														
9 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
10 Total Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
13 Investor-Owned Entities	582	583	567	539	533	522	514	524	542	573	571	625	617	602
14 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
15 Total Non-Utility Generation	831	829	764	682	626	616	607	619	601	760	766	906	918	908

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
4 Total Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	582	581	563	537	532	522	514	524	539	573	567	622	617	604
8 Total Investor-owned Entities	582	581	563	537	532	522	514	524	539	573	567	622	617	604
-Other Entities-														
9 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
10 Total Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
13 Investor-Owned Entities	582	581	563	537	532	522	514	524	539	573	567	622	617	604
14 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
15 Total Non-Utility Generation	831	828	760	680	625	616	607	619	598	760	761	903	918	910

**Table A-23: Regional NUG Resources By Owner
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Federal Entities-														
1 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
2 Total Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
-Generating Public Entities-														
3 Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
4 Total Generating Public Entities	206	204	154	100	57	58	57	59	23	151	151	238	258	263
-Non-Generating Public Entities-														
5 Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Non-Generating Public Entities	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-Investor-Owned Entities-														
7 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
8 Total Investor-owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
-Other Entities-														
9 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
10 Total Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
-Total Non-Utility Generating Resources-														
11 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
12 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
13 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
14 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
15 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

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Table A-24
Non-Utility Generating Resources by Project
and Project Type
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.1	2.8	3.3	3.1	3.0	2.8	2.9	3.0	3.0	3.8	3.4	2.5
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	8.3	6.5	2.8	1.0	0	0	0	0.1	2.9	2.9	7	8.2	8.7
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipahon)	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Elwha Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
47 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
49 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
50 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
51 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
52 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
53 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
54 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
55 Glines Canyon Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56 Hailey Csp	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
57 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
58 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
59 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
60 Hutchinson Creek	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
61 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
62 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
63 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7
66 Juniper Ridge Hydro	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
67 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
68 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
70 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
71 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
73 Lake Oswego	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
74 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
75 Lee Tavenner	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
76 Lemoyne	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
77 Little Mac	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
78 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
79 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
80 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
81 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
82 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
83 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
84 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
85 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
86 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
87 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
88 Marsh Valley	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
89 Meyers Falls	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
90 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
91 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
92 Mill Creek (OR) - City of Cove	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
93 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
95 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
96 Mora Canal Drop	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
97 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98 Mt. Tabor	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
99 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
100 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
101 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
102 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
103 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
104 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
105 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
107 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
108 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
109 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
110 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
112 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
114 Pine Creek	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
115 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
117 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
118 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
119 Preston City	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
120 Pristine Springs	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	0.1
121 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
122 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
123 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
124 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
125 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
126 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
127 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
128 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
130 Sahko	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
131 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
133 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
134 Shingle Creek	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	0.1
135 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
136 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
137 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
138 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4
139 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
140 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.6	0.5
141 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
142 Stauffer Dry Creek	0.9	0.9	1	0.8	0.4	0	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1
143 Strawberry Creek	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
144 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
145 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
146 Sygitowicz Creek Small Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
148 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
150 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
151 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
152 Trout Co.	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
153 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
154 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
155 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
156 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
157 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
158 White Water Ranch	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
159 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
160 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0
161 Woods Creek	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
162 Total NUG: Hydro	374	372	301	218	159	147	138	150	186	300	309	437	457	448
-NUG: Small Thermal & Misc.-														
163 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
164 Methane Energy Agricultural D. (Holey)	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
165 Montana One (Colstrip Energy Limited)	12	12	12	14	14	14	14	14	12	12	12	15	13	12
166 Pocatello Waste	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
167 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
168 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
169 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170 Total NUG: Small Thermal & Misc	44	44	44	44	45	46	46	46	44	44	44	47	45	44
-NUG: Co-Generation-														
171 Billings Generation	12	12	18	19	21	22	22	21	19	18	18	23	21	19
172 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
173 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
175 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
176 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
177 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
178 Evergreen Biopower Cogen (Frederick)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
179 Glens Ferry Cogen Facility (Magic West)	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
180 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
181 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
182 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
183 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
184 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.7	7.5	8.0	8
185 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
186 Stimson Lumber (formerly Haley West)	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.1	4.2	3.9
187 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
188 TASC0 Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2

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PNW Loads and Resource Study
2011 - 2012 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 TASC0 Twin Falls ID	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
190 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
191 Warm Springs	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
192 West Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Total NUG: Co-Generation	374	374	380	381	382	383	382	383	329	377	370	381	377	379
-NUG: Renewables-														
194 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
195 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
196 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
197 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
198 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
199 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 DeRuyter & Son's Dairy	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
201 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
202 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
203 Farm Power Lynden	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
204 Farm Power Rexville	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
205 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
206 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
209 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
210 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
211 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
212 Pine Products Corp	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
213 Portland Waste Water	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
214 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
215 Qualco Dairy Digester	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
216 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
217 VanderHaak Dairy	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
218 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
221 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
222 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
223 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
224 Public Entities	204	203	153	98	56	56	71	72	36	164	164	251	271	277
225 Investor-Owned Entities	609	609	594	565	560	548	524	535	550	584	577	632	628	615
226 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
227 Total Non-Utility Generation	824	823	757	676	620	609	600	612	591	753	754	896	911	903

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.1	2.9	3.3	3.1	3	2.9	2.9	3	3	3.8	4.3	2.6
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	8.3	6.5	2.8	1.0	0	0	0	0.1	2.9	2.9	7	8.2	8.7
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipahon)	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
46 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
48 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
49 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
50 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
51 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
52 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
53 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
54 Hailey Cspp	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
55 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
56 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
57 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
58 Hutchinson Creek	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
59 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
60 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
61 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4
62 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 Juniper Ridge Hydro	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
65 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
66 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
68 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
69 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
71 Lake Oswego	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
72 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
73 Lee Tavenner	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
74 Lemoyne	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
75 Little Mac	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
76 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
77 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
78 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
79 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
80 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
81 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
82 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
83 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
84 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
85 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
86 Marsh Valley	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
87 Meyers Falls	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
88 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
89 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
90 Mill Creek (OR) - City of Cove	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
91 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
93 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
94 Mora Canal Drop	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
95 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Mt. Tabor	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
97 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
98 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
99 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
100 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
101 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
102 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
105 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
106 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
107 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
108 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
110 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
112 Pine Creek	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
113 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
115 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
116 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
117 Preston City	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
118 Pristine Springs	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	0.1
119 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
121 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
122 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
124 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
125 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
126 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4
127 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
128 Sahko	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

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
131 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
132 Shingle Creek	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	0.1
133 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
134 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
135 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
136 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
137 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
138 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.7	0.5
139 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
140 Stauffer Dry Creek	0.9	0.9	1	0.8	0.4	0	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1
141 Strawberry Creek	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
142 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
143 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
144 Sygitowicz Creek Small Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
146 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
148 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
149 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
150 Trout Co.	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
151 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
152 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
153 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
154 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
155 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
156 White Water Ranch	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
157 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
158 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
159 Woods Creek	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
160 Total NUG: Hydro	374	372	301	218	159	147	138	150	186	300	309	437	458	448
-NUG: Small Thermal & Misc.-														
161 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
162 Methane Energy Agricultural D. (Holey)	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
163 Montana One (Colstrip Energy Limited)	12	12	12	13	14	15	15	14	13	12	12	15	17	13
164 Pocatello Waste	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
165 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
166 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
167 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168 Total NUG: Small Thermal & Misc.	44	44	44	44	45	46	47	46	44	44	44	47	49	44
-NUG: Co-Generation-														
169 Billings Generation	12	12	18	19	21	22	23	22	20	18	18	23	26	13
170 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
171 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
173 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
174 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
175 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
176 Evergreen Biopower Cogen (Fretts)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
177 Glenns Ferry Cogen Facility (Magic West)	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
178 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
179 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
180 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
181 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
182 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8	
183 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
184 Tamson Lumber (formerly Haley West)	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.1	4.2	3.9
185 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
186 TASCO Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2
187 TASCO Twin Falls ID	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
188 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2012 - 2013 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 Warm Springs	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
190 West Point	0	0	0	0	0	0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
191 Total NUG: Co-Generation	374	374	380	381	383	383	387	388	334	382	375	386	386	378
-NUG: Renewables-														
192 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
194 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
195 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
196 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
197 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
198 DeRuyter & Son's Dairy	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
199 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
200 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
201 Farm Power Lynden	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 Farm Power Rexville	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
203 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
204 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
206 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
207 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
210 Pine Products Corp	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
211 Portland Waste Water	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
212 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
213 Qualco Dairy Digester	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
214 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
215 VanderHaak Dairy	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
216 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
221 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
222 Public Entities	219	218	168	113	71	71	75	77	41	169	169	256	276	281
223 Investor-Owned Entities	594	594	579	551	545	533	525	535	550	584	578	633	637	610
224 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
225 Total Non-Utility Generation	825	823	758	676	620	609	605	617	596	758	759	901	925	902

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.2	2.9	3.3	3.2	3.1	2.9	3.0	3.1	3.1	3.9	3.5	2.6
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	8.3	6.5	2.8	1.0	0	0	0	0.1	2.9	2.9	7	8.2	8.7
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipahon)	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
46 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
48 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
49 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
50 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
51 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
52 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
53 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
54 Hailey Cspp	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
55 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
56 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
57 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
58 Hutchinson Creek	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
59 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
60 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
61 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4
62 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2013 - 2014 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 Juniper Ridge Hydro	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
65 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
66 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
68 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
69 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
71 Lake Oswego	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
72 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
73 Lee Tavenner	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
74 Lemoyne	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
75 Little Mac	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
76 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
77 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
78 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
79 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
80 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
81 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
82 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
83 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
84 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
85 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
86 Marsh Valley	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
87 Meyers Falls	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
88 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
89 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
90 Mill Creek (OR) - City of Cove	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
91 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
93 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
94 Mora Canal Drop	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
95 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Mt. Tabor	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
97 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
98 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
99 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
100 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
101 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
102 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
105 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
106 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
107 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
108 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
110 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
112 Pine Creek	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
113 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
115 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
116 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
117 Preston City	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
118 Pristine Springs	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	0.1
119 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
121 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
122 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
124 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
125 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
126 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4
127 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
128 Sahko	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

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
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[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
131 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
132 Shingle Creek	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	0.1
133 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
134 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
135 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
136 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
137 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
138 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.6	0.5
139 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
140 Stauffer Dry Creek	0.9	0.9	1	0.8	0.4	0	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1
141 Strawberry Creek	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
142 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
143 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
144 Sygitowicz Creek Small Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
146 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
148 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
149 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
150 Trout Co.	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
151 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
152 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
153 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
154 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
155 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
156 White Water Ranch	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
157 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
158 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
159 Woods Creek	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
160 Total NUG: Hydro	374	372	301	218	159	147	138	150	186	300	309	437	457	448
-NUG: Small Thermal & Misc.-														
161 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
162 Methane Energy Agricultural D. (Holey)	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
163 Montana One (Colstrip Energy Limited)	12	12	12	13	14	15	15	14	13	12	12	15	14	13
164 Pocatello Waste	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
165 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
166 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
167 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168 Total NUG: Small Thermal & Misc.	44	44	44	45	46	47	47	46	45	44	44	47	46	44
-NUG: Co-Generation-														
169 Billings Generation	12	12	18	19	21	23	23	22	20	19	19	24	21	19
170 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
171 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
173 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
174 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
175 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
176 Evergreen Biopower Cogen (Fretts)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
177 Glenns Ferry Cogen Facility (Magic West)	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
178 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
179 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
180 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
181 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
182 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8	8
183 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
184 Tamson Lumber (formerly Haley West)	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.1	4.2	3.9
185 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
186 TASCO Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2
187 TASCO Twin Falls ID	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
188 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 Warm Springs	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
190 West Point	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
191 Total NUG: Co-Generation	379	379	385	386	388	388	388	389	334	383	375	386	382	384
-NUG: Renewables-														
192 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
194 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
195 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
196 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
197 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
198 DeRuyter & Son's Dairy	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
199 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
200 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
201 Farm Power Lynden	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 Farm Power Rexville	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
203 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
204 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
206 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
207 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
210 Pine Products Corp	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
211 Portland Waste Water	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
212 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
213 Qualco Dairy Digester	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
214 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
215 VanderHaak Dairy	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
216 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
221 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
222 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
223 Investor-Owned Entities	594	595	579	551	545	534	526	536	551	585	579	634	629	603
224 Other Entities	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	21
225 Total Non-Utility Generation	830	828	763	681	625	614	606	618	597	759	760	902	917	909

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.2	2.9	3.3	3.2	3.1	2.9	3.0	3.1	3.1	3.9	3.5	2.6
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	8.3	6.5	2.8	1.0	0	0	0	0.1	2.9	2.9	7	8.2	8.7
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipahon)	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
46 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
48 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
49 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
50 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
51 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
52 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
53 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
54 Hailey Cspp	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
55 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
56 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
57 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
58 Hutchinson Creek	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
59 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
60 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
61 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4
62 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 Juniper Ridge Hydro	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
65 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
66 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
68 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
69 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
71 Lake Oswego	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
72 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
73 Lee Tavenner	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
74 Lemoyne	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
75 Little Mac	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
76 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
77 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
78 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
79 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
80 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
81 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
82 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
83 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
84 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
85 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
86 Marsh Valley	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
87 Meyers Falls	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
88 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
89 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
90 Mill Creek (OR) - City of Cove	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
91 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
93 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
94 Mora Canal Drop	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
95 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Mt. Tabor	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
97 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
98 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
99 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
100 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
101 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
102 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
105 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
106 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
107 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
108 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
110 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
112 Pine Creek	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
113 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
115 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
116 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
117 Preston City	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
118 Pristine Springs	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	0.1
119 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
121 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
122 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
124 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
125 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
126 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4
127 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
128 Sahko	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

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
131 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
132 Shingle Creek	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	0.1
133 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
134 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
135 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
136 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
137 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
138 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.6	0.5
139 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
140 Stauffer Dry Creek	0.9	0.9	1	0.8	0.4	0	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1
141 Strawberry Creek	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
142 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
143 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
144 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
145 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
147 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
148 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
149 Trout Co.	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
150 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
151 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
152 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
153 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
154 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
155 White Water Ranch	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
156 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
157 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
158 Woods Creek	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
159 Total NUG: Hydro	374	372	301	218	159	147	138	150	186	300	309	437	457	448
-NUG: Small Thermal & Misc.-														
160 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
161 Methane Energy Agricultural D. (Holey)	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
162 Montana One (Colstrip Energy Limited)	12	12	13	14	15	15	14	13	12	12	15	14	13	
163 Pocatello Waste	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
164 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
165 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
166 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167 Total NUG: Small Thermal & Misc.	44	44	44	45	46	47	47	46	45	44	44	47	46	44
-NUG: Co-Generation-														
168 Billings Generation	12	12	18	19	21	23	23	22	20	19	19	24	21	19
169 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
170 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
172 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
173 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
174 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
175 Evergreen Biopower Cogen (Ferber)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
176 Glenns Ferry Cogen Facility (Magic West)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
177 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
178 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
179 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
180 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
181 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8	
182 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
183 Stimson Lumber (formerly Haley West)	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.1	4.2	3.9
184 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
185 TASC0 Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2
186 TASC0 Twin Falls ID	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
187 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
188 Warm Springs	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

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2014 - 2015 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 West Point	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
190 Total NUG: Co-Generation	380	380	386	387	389	389	389	390	335	384	376	387	383	385
-NUG: Renewables-														
191 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
192 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
194 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
195 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
196 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
197 DeRuyter & Son's Dairy	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
198 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
199 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 Farm Power Lynden	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
201 Farm Power Rexville	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 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
203 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
204 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
206 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Pine Products Corp	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
210 Portland Waste Water	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
211 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
212 Qualco Dairy Digester	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
213 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
214 VanderHaak Dairy	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
215 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
220 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
221 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
222 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
223 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
224 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.2	2.9	3.3	3.2	3.1	2.9	3.0	3.1	3.1	3.9	3.5	2.6
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	8.3	6.5	2.8	1.0	0	0	0	0.1	2.9	2.9	7	8.2	8.7
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipahon)	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
46 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
48 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
49 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
50 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
51 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
52 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
53 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
54 Hailey Cspp	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
55 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
56 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
57 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
58 Hutchinson Creek	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
59 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
60 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
61 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4
62 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 Juniper Ridge Hydro	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
65 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
66 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
68 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
69 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
71 Lake Oswego	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
72 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
73 Lee Tavenner	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
74 Lemoyne	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
75 Little Mac	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
76 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
77 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
78 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
79 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
80 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
81 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
82 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
83 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
84 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
85 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
86 Marsh Valley	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
87 Meyers Falls	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
88 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
89 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
90 Mill Creek (OR) - City of Cove	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
91 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
93 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
94 Mora Canal Drop	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
95 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Mt. Tabor	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
97 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
98 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
99 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
100 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
101 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
102 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
105 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
106 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
107 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
108 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
110 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
112 Pine Creek	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
113 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
115 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
116 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
117 Preston City	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
118 Pristine Springs	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	0.1
119 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
121 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
122 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
124 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
125 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
126 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4
127 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
128 Sahko	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

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
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[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
131 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
132 Shingle Creek	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	0.1
133 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
134 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
135 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
136 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
137 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
138 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.6	0.5
139 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
140 Stauffer Dry Creek	0.9	0.9	1	0.8	0.4	0	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1
141 Strawberry Creek	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
142 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
143 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
144 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
145 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
147 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
148 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
149 Trout Co.	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
150 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
151 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
152 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
153 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
154 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
155 White Water Ranch	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
156 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
157 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
158 Woods Creek	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
159 Total NUG: Hydro	374	372	301	218	159	147	138	150	186	300	309	437	457	448
-NUG: Small Thermal & Misc.-														
160 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
161 Methane Energy Agricultural D. (Holey)	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
162 Montana One (Colstrip Energy Limited)	12	12	13	14	15	15	14	13	12	12	15	14	13	
163 Pocatello Waste	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
164 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
165 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
166 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167 Total NUG: Small Thermal & Misc.	44	44	44	45	46	47	47	46	45	44	44	47	46	44
-NUG: Co-Generation-														
168 Billings Generation	12	12	18	19	21	23	23	22	20	19	19	24	21	19
169 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
170 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
172 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
173 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
174 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
175 Evergreen Biopower Cogen (Ferber)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
176 Glenns Ferry Cogen Facility (Magic West)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
177 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
178 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
179 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
180 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
181 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8	
182 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
183 Stimson Lumber (formerly Haley West)	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.1	4.2	3.9
184 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
185 TASC0 Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2
186 TASC0 Twin Falls ID	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
187 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
188 Warm Springs	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

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PNW Loads and Resource Study
2015 - 2016 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 West Point	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
190 Total NUG: Co-Generation	380	380	386	387	389	389	389	390	335	384	376	387	383	385
-NUG: Renewables-														
191 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
192 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
194 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
195 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
196 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
197 DeRuyter & Son's Dairy	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
198 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
199 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 Farm Power Lynden	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
201 Farm Power Rexville	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 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
203 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
204 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
206 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Pine Products Corp	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
210 Portland Waste Water	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
211 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
212 Qualco Dairy Digester	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
213 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
214 VanderHaak Dairy	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
215 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
220 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
221 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
222 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
223 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
224 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.2	2.9	3.3	3.2	3.1	2.9	3.0	3.1	3.1	3.9	3.5	2.6
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	8.3	6.5	2.8	1.0	0	0	0	0.1	2.9	2.9	7	8.2	8.7
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipahon)	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
46 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
48 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
49 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
50 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
51 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
52 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
53 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
54 Hailey Cspp	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
55 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
56 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
57 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
58 Hutchinson Creek	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
59 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
60 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
61 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4
62 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 Juniper Ridge Hydro	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
65 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
66 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
68 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
69 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
71 Lake Oswego	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
72 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
73 Lee Tavenner	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
74 Lemoyne	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
75 Little Mac	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
76 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
77 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
78 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
79 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
80 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
81 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
82 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
83 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
84 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
85 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
86 Marsh Valley	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
87 Meyers Falls	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
88 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
89 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
90 Mill Creek (OR) - City of Cove	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
91 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
93 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
94 Mora Canal Drop	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
95 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Mt. Tabor	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
97 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
98 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
99 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
100 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
101 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
102 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
105 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
106 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
107 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
108 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
110 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
112 Pine Creek	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
113 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
115 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
116 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
117 Preston City	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
118 Pristine Springs	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	0.1
119 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
121 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
122 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
124 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
125 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
126 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4
127 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
128 Sahko	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

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
131 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
132 Shingle Creek	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	0.1
133 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
134 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
135 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
136 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
137 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
138 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.6	0.5
139 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
140 Stauffer Dry Creek	0.9	0.9	1	0.8	0.4	0	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1
141 Strawberry Creek	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
142 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
143 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
144 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
145 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
147 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
148 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
149 Trout Co.	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
150 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
151 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
152 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
153 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
154 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
155 White Water Ranch	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
156 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
157 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
158 Woods Creek	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
159 Total NUG: Hydro	374	372	301	218	159	147	138	150	186	300	309	437	457	448
-NUG: Small Thermal & Misc.-														
160 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
161 Methane Energy Agricultural D. (Holey)	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
162 Montana One (Colstrip Energy Limited)	12	12	13	14	15	15	14	13	12	12	15	14	13	
163 Pocatello Waste	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
164 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
165 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
166 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167 Total NUG: Small Thermal & Misc	44	44	44	45	46	47	47	46	45	44	44	47	46	44
-NUG: Co-Generation-														
168 Billings Generation	12	12	18	19	21	23	23	22	20	19	19	24	21	19
169 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
170 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
172 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
173 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
174 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
175 Evergreen Biopower Cogen (Feret)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
176 Glenns Ferry Cogen Facility (Magic West)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
177 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
178 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
179 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
180 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
181 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8	
182 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
183 Stimson Lumber (formerly Haley West)	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.1	4.2	3.9
184 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
185 TASC0 Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2
186 TASC0 Twin Falls ID	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
187 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
188 Warm Springs	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

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2016 - 2017 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 West Point	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
190 Total NUG: Co-Generation	380	380	386	387	389	389	389	390	335	384	376	387	383	385
-NUG: Renewables-														
191 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
192 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
194 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
195 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
196 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
197 DeRuyter & Son's Dairy	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
198 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
199 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 Farm Power Lynden	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
201 Farm Power Rexville	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 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
203 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
204 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
206 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Pine Products Corp	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
210 Portland Waste Water	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
211 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
212 Qualco Dairy Digester	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
213 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
214 VanderHaak Dairy	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
215 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
220 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
221 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
222 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
223 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
224 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.2	2.9	3.3	3.2	3.1	2.9	3.0	3.1	3.1	3.9	3.5	2.6
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	8.3	6.5	2.8	1.0	0	0	0	0.1	2.9	2.9	7	8.2	8.7
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipahon)	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
46 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
48 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
49 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
50 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
51 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
52 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
53 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
54 Hailey Cspp	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
55 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
56 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
57 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
58 Hutchinson Creek	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
59 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
60 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
61 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4
62 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 Juniper Ridge Hydro	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
65 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
66 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
68 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
69 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
71 Lake Oswego	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
72 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
73 Lee Tavenner	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
74 Lemoyne	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
75 Little Mac	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
76 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
77 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
78 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
79 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
80 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
81 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
82 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
83 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
84 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
85 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
86 Marsh Valley	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
87 Meyers Falls	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
88 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
89 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
90 Mill Creek (OR) - City of Cove	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
91 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
93 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
94 Mora Canal Drop	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
95 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Mt. Tabor	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
97 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
98 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
99 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
100 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
101 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
102 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
105 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
106 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
107 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
108 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
110 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
112 Pine Creek	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
113 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
115 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
116 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
117 Preston City	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
118 Pristine Springs	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	0.1
119 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
121 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
122 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
124 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
125 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
126 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4
127 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
128 Sahko	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

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2017 - 2018 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
131 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
132 Shingle Creek	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	0.1
133 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
134 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
135 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
136 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
137 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
138 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.6	0.5
139 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
140 Stauffer Dry Creek	0.9	0.9	1	0.8	0.4	0	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1
141 Strawberry Creek	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
142 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
143 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
144 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
145 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
147 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
148 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
149 Trout Co.	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
150 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
151 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
152 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
153 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
154 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
155 White Water Ranch	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
156 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
157 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
158 Woods Creek	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
159 Total NUG: Hydro	374	372	301	218	159	147	138	150	186	300	309	437	457	448
-NUG: Small Thermal & Misc.-														
160 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
161 Methane Energy Agricultural D. (Holey)	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
162 Montana One (Colstrip Energy Limited)	12	12	13	14	15	15	14	13	12	12	15	14	13	
163 Pocatello Waste	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
164 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
165 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
166 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167 Total NUG: Small Thermal & Misc	44	44	44	45	46	47	47	46	45	44	44	47	46	44
-NUG: Co-Generation-														
168 Billings Generation	12	12	18	19	21	23	23	22	20	19	19	24	21	19
169 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
170 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
172 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
173 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
174 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
175 Evergreen Biopower Cogen (Feret)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
176 Glenns Ferry Cogen Facility (Magic West)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
177 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
178 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
179 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
180 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
181 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8	
182 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
183 Stimson Lumber (formerly Haley West)	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.1	4.2	3.9
184 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
185 TASC0 Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2
186 TASC0 Twin Falls ID	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
187 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
188 Warm Springs	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

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2017 - 2018 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 West Point	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
190 Total NUG: Co-Generation	380	380	386	387	389	389	389	390	335	384	376	387	383	385
-NUG: Renewables-														
191 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
192 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
194 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
195 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
196 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
197 DeRuyter & Son's Dairy	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
198 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
199 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 Farm Power Lynden	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
201 Farm Power Rexville	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 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
203 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
204 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
206 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Pine Products Corp	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
210 Portland Waste Water	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
211 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
212 Qualco Dairy Digester	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
213 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
214 VanderHaak Dairy	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
215 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
220 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
221 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
222 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
223 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
224 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.2	2.9	3.3	3.2	3.1	2.9	3.0	3.1	3.1	3.9	3.5	2.6
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	8.3	6.5	2.8	1.0	0	0	0.1	2.9	2.9	7	8.2	8.7	8.3
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipahon)	3.1	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
46 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
48 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
49 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
50 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
51 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
52 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
53 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
54 Hailey Cspp	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
55 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
56 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
57 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
58 Hutchinson Creek	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
59 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
60 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
61 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4
62 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 Juniper Ridge Hydro	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
65 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
66 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
68 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
69 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
71 Lake Oswego	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
72 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
73 Lee Tavenner	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
74 Lemoyne	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
75 Little Mac	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
76 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
77 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
78 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
79 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
80 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
81 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
82 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
83 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
84 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
85 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
86 Marsh Valley	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
87 Meyers Falls	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
88 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
89 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
90 Mill Creek (OR) - City of Cove	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
91 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
93 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
94 Mora Canal Drop	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
95 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Mt. Tabor	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
97 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
98 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
99 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
100 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
101 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
102 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
105 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
106 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
107 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
108 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
110 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
112 Pine Creek	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
113 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
115 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
116 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
117 Preston City	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
118 Pristine Springs	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	0.1
119 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
121 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
122 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
124 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
125 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
126 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4
127 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
128 Sahko	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

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
131 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
132 Shingle Creek	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	0.1
133 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
134 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
135 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
136 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
137 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
138 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.6	0.5
139 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
140 Stauffer Dry Creek	0.9	0.9	1	0.8	0.4	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1	0.9
141 Strawberry Creek	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
142 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
143 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
144 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
145 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
147 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
148 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
149 Trout Co.	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
150 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
151 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
152 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
153 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
154 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
155 White Water Ranch	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
156 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
157 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
158 Woods Creek	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
159 Total NUG: Hydro	374	372	301	218	159	147	138	150	189	300	314	440	457	446
-NUG: Small Thermal & Misc.-														
160 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
161 Methane Energy Agricultural D. (Holey)	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
162 Montana One (Colstrip Energy Limited)	12	12	13	14	15	15	14	13	12	12	15	14	13	
163 Pocatello Waste	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
164 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
165 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
166 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167 Total NUG: Small Thermal & Misc.	44	44	44	45	46	47	47	46	45	44	44	47	46	44
-NUG: Co-Generation-														
168 Billings Generation	12	12	18	19	21	23	23	22	20	19	19	24	21	19
169 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
170 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
172 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
173 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
174 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
175 Evergreen Biopower Cogen (Feret)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
176 Glenns Ferry Cogen Facility (Magic West)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
177 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
178 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
179 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
180 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
181 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8	
182 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
183 Stimson Lumber (formerly Haley West)	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.1	4.2	3.9
184 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
185 TASC0 Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2
186 TASC0 Twin Falls ID	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
187 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
188 Warm Springs	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

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2018 - 2019 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 West Point	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
190 Total NUG: Co-Generation	380	380	386	387	389	389	389	390	335	384	376	387	383	385
-NUG: Renewables-														
191 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
192 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
194 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
195 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
196 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
197 DeRuyter & Son's Dairy	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
198 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
199 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 Farm Power Lynden	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
201 Farm Power Rexville	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 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
203 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
204 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
206 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Pine Products Corp	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
210 Portland Waste Water	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
211 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
212 Qualco Dairy Digester	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
213 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
214 VanderHaak Dairy	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
215 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
220 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
221 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
222 Investor-Owned Entities	582	583	567	539	533	522	514	524	542	573	571	625	617	602
223 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
224 Total Non-Utility Generation	831	829	764	682	626	616	607	619	601	760	766	906	918	908

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.2	2.9	3.3	3.2	3.1	2.9	3.0	3.1	3.1	3.9	3.5	2.6
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	6.5	2.8	1.0	0	0	0	0	0.1	2.9	2.9	7	8.2	8.7
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipahon)	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
46 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
48 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
49 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
50 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
51 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
52 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
53 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
54 Hailey Cspp	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
55 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
56 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
57 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
58 Hutchinson Creek	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
59 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
60 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
61 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4
62 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2019 - 2020 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 Juniper Ridge Hydro	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
65 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
66 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
68 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
69 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
71 Lake Oswego	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
72 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
73 Lee Tavenner	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
74 Lemoyne	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
75 Little Mac	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
76 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
77 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
78 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
79 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
80 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
81 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
82 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
83 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
84 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
85 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
86 Marsh Valley	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
87 Meyers Falls	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
88 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
89 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
90 Mill Creek (OR) - City of Cove	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
91 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
93 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
94 Mora Canal Drop	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
95 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Mt. Tabor	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
97 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
98 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
99 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
100 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
101 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
102 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
105 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
106 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
107 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
108 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
110 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
112 Pine Creek	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
113 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
115 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
116 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
117 Preston City	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
118 Pristine Springs	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	0.1
119 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
121 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
122 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
124 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
125 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
126 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4
127 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
128 Sahko	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

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
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[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
131 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
132 Shingle Creek	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	0.1
133 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
134 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
135 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
136 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
137 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
138 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.6	0.5
139 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
140 Stauffer Dry Creek	0.9	1	0.8	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1
141 Strawberry Creek	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
142 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
143 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
144 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
145 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
147 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
148 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
149 Trout Co.	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
150 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
151 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
152 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
153 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
154 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
155 White Water Ranch	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
156 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
157 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
158 Woods Creek	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
159 Total NUG: Hydro	374	371	297	216	158	147	138	150	186	300	309	437	457	448
-NUG: Small Thermal & Misc.-														
160 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
161 Methane Energy Agricultural D. (Holey)	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
162 Montana One (Colstrip Energy Limited)	12	12	13	14	15	15	14	13	12	12	15	14	13	
163 Pocatello Waste	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
164 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
165 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
166 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167 Total NUG: Small Thermal & Misc	44	44	44	45	46	47	47	46	45	44	44	47	46	44
-NUG: Co-Generation-														
168 Billings Generation	12	12	18	19	21	23	23	22	20	19	19	24	21	19
169 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
170 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
172 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
173 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
174 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
175 Evergreen Biopower Cogen (Frerking)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
176 Glenns Ferry Cogen Facility (Magic West)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
177 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
178 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
179 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
180 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
181 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8	
182 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
183 Stimson Lumber (formerly Haley West)	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.1	4.2	3.9
184 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
185 TASCO Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2
186 TASCO Twin Falls ID	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
187 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
188 Warm Springs	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

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[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 West Point	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
190 Total NUG: Co-Generation	380	380	386	387	389	389	389	390	335	384	376	387	383	385
-NUG: Renewables-														
191 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
192 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
194 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
195 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
196 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
197 DeRuyter & Son's Dairy	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
198 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
199 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 Farm Power Lynden	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
201 Farm Power Rexville	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 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
203 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
204 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
206 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Pine Products Corp	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
210 Portland Waste Water	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
211 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
212 Qualco Dairy Digester	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
213 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
214 VanderHaak Dairy	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
215 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
220 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
221 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
222 Investor-Owned Entities	582	581	563	537	532	522	514	524	539	573	567	622	617	604
223 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
224 Total Non-Utility Generation	831	828	760	680	625	616	607	619	598	760	761	903	918	910

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-NUG: Hydro-														
1 Albany	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
2 Barber Dam	3	3	2.4	1.1	0.4	1.2	2.7	3.3	4.1	4.1	4.1	4.0	4.1	4.1
3 Barney Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Beaverton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Bell Mountain	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
6 Big Sheep Creek	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
7 Bingham Engineering	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
8 Birch Creek (Clark County)	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
9 Birch Creek (Gooding County)	1.3	1.3	1.1	1.0	1.1	1.1	0.3	1.2	1.7	1.6	1.6	1.6	1.3	1.2
10 Black Canyon #3	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
11 Black Creek	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
12 Blind Canyon Hydro	0.7	0.7	1.1	0.9	0.2	0	0	0	0	0.6	0.6	1.6	1.0	0.7
13 Boulder Creek	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
14 Box Canyon	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
15 Boyd James	0	0	0	0	0	0.4	0.3	0.6	0.7	0.8	0.8	0.5	0	0
16 Briggs Creek	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
17 Broadwater Dam	1.7	1.7	2.2	2.9	3.3	3.2	3.1	2.9	3.0	3.1	3.1	3.9	3.5	2.6
18 Buffalo Hydro	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
19 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Bypass	8.3	8.3	6.5	2.8	1.0	0	0	0	0.1	2.9	2.9	7	8.2	8.7
21 Canyon Springs	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
22 Carlton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Cascade Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CDM-Felt Hydroelectric Plant	2.9	2.9	3.1	2.8	2.9	2.4	1.8	2	2.7	2.7	2.7	4.4	5.8	4.1
25 Cedar Draw	0.3	0.3	0.9	0.9	0.9	1.2	1.2	1.3	0.4	0.4	0.4	0.4	0.3	0.3
26 Central OR Irrigation District (Sipson)	3.1	3.7	3.5	0	0.7	0	0.4	0.9	0.8	0.8	0.8	4.5	3.8	4.1
27 Clear Springs Trout	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4
28 Cornelius	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Cowiche	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
30 Crystal Springs	2.1	2.1	2.4	2.4	2.4	0.8	0.8	0.9	1.3	1.3	1.3	1.3	2.2	2.1
31 Curry Cattle Co.	0.2	0.2	0.2	0.1	0.1	0	0	0	0.1	0.1	0.1	0.2	0.2	0.2
32 Curtiss Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 Dairy Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Deep Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 Derr Creek	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2
37 Dietrich Drop	4.7	4.7	3.6	3.1	1.4	0	0	0	0	3.1	3.1	4.7	4.7	4.5
38 Don Steffen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Donald Jenni	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 Dworshak/Clearwater Small Hydro Power	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 Eagle Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Elk Creek	1.9	1.9	0	0	0	0.2	0.2	0.2	1.6	1.7	1.7	1.6	2	1.9
43 Eltopia Br Canal 4.6	1.8	1.8	1.2	0.6	0	0	0	0	0	1.4	1.4	2	2	2.2
44 Estacada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Fall Creek (OR) (Frontier Technologies)	0	0	0	0	1.9	3.1	0.9	2.7	2.7	4.4	4.4	4.1	3.8	0
46 Falls Creek (WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 Falls River	6.5	6.5	6.3	5.7	5.6	5.0	4.2	3.8	3.8	6.2	6.2	7.9	8.5	7.1
48 Farmers Irrig.	0.6	0.6	0.7	1.2	3.2	3.2	2.1	4.6	3.3	3.5	3.5	4.7	0.8	0.7
49 Faulkner Ranch	0.8	0.8	0.7	0.7	0.7	0.3	0.3	0.3	0.5	0.6	0.6	0.5	0.8	0.8
50 Fisheries Development Co	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
51 Galesville Dam	0.6	0.6	0.4	0.2	0.2	0.3	0	0.2	0.3	0.4	0.4	0.3	0.4	0.5
52 Geobon 2	1.0	1.0	0.3	0.3	0.3	0.2	0.2	0.3	0.6	0.6	0.6	0.6	1.0	1.0
53 Georgetown Power	0	0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0
54 Hailey Cspp	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
55 Hazelton A	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
56 Hazelton B	6.6	6.6	5.2	2.4	0.7	0	0	0	0.1	2.2	2.2	5.6	6.4	7.0
57 Horseshoe Bend Hydro	8.8	8.8	7.5	3.9	2.8	3.5	3.9	4.6	5.9	8.8	8.8	9.9	9.8	9.2
58 Hutchinson Creek	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
59 Ingram Warm Springs	0.2	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
60 Jim Ford Creek	0	0	0	0	0.3	0.5	0.9	0.9	1.1	1.1	1.1	0.7	0.3	0.1
61 Jim Knight	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4	0.4
62 John Day Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63 Joseph Hydro	1.5	1.5	0.9	0.4	0.1	0.1	0.1	0	0	0.1	0.1	0.2	1.2	2.7

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
64 Juniper Ridge Hydro	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
65 Kasel & Witherspoon	0.9	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.9	0.8
66 Kevin Duncan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67 Koma Kulshan	12	12	12	12	12	12	12	12	12	12	12	12	12	12
68 Koyle	1.1	1.1	1.1	1.0	1	0.2	0.1	0.1	0.3	0.8	0.8	1.2	0.8	0.9
69 L. Fery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Lacombe Irrig.	0	0	0	0	0.2	1.0	0.2	0.9	0.9	1	1	0.9	0.9	0.4
71 Lake Oswego	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
72 Lateral #10	1.2	1.2	1.3	1.6	1.7	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.2
73 Lee Tavenner	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
74 Lemoyne	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
75 Little Mac	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
76 Little Wood River Res.	1.9	1.9	0.2	0.2	0.2	0	0	0	1.6	1.7	1.7	1.6	2	1.9
77 Littlewood/Arkoosh	0.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.8	0.7
78 Low Line Canal Drop	7.8	7.8	7.5	7.3	7.5	0.6	0.6	0.7	5.3	5.5	5.5	5.3	8.1	7.8
79 Low Line Midway	2	2	0	0	0	0	0	0	0	0	0	0	2	2
80 Lower Low Line #2	2.7	2.7	2.5	1.8	1.4	0	0	0.7	1.9	2.5	2.5	2.7	2.7	2.7
81 Lucky Peak	29	27	20	4.5	0	0.7	0	1.5	1.6	11	11	68	75	73
82 Magic Reservoir	6.8	6.8	4.4	0.5	0.2	0.1	0.3	0.1	0.9	3.0	3.0	8.3	9.1	9.0
83 Main Canal Headworks	20	20	12	5.2	0	0	0	0	2.8	14	14	18	21	24
84 Malad River	0.5	0.5	0.6	0.5	0.5	0.1	0.1	0	0.2	0.4	0.4	0.6	0.4	0.5
85 Marco Ranches	1.1	1.1	1.2	1.1	1.2	0	0	0	1.1	1.2	1.2	1.1	1.2	1.1
86 Marsh Valley	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
87 Meyers Falls	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
88 Middle Fork Irrig.	1.8	1.8	0.8	1.2	1.3	1.7	2.7	3.1	3.1	2.9	2.9	2.8	2.4	2.0
89 Mile 28	1.3	1.3	1.2	0.7	0.2	0	0	0	0	0.6	0.6	1.2	1.3	1.4
90 Mill Creek (OR) - City of Cove	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
91 Minikahda	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92 Mink Creek	1.2	1.2	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	1.6	2.7	1.6
93 Mitchell Butte	1.8	1.8	1.8	0.7	0	0	0	0	0.5	1.4	1.4	2.1	2.1	1.8
94 Mora Canal Drop	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
95 Mountain Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96 Mt. Tabor	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
97 Mud Creek/S&S	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
98 Mud Creek/White	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
99 Nichols Gap	0	0	0	0	0.4	0.6	0.2	0.5	0.6	0.4	0.4	0	0	0
100 Nicholson Sunnybar	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
101 North Fork Sprague	0	0	0.1	0	0	0	0.1	0.3	0.2	0.3	0.3	0.9	0.4	0.1
102 O.J. Power	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103 Odell Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Opal Springs	2.6	2.6	3.0	3.6	3.2	2.9	2.9	3.5	2.6	2.7	2.7	4.5	1.6	2.2
105 Orchard Avenue	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0.8	0.8	0.8	0.8
106 Owyhee Dam	3.6	3.6	2.6	0.8	0	0	0.3	0.8	2.3	4.3	4.3	5	4.3	4.1
107 PEC Headworks	4.5	4.5	3.1	3	0	0	0	0	2.8	5.1	5.1	6.5	6.2	5.8
108 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 Phillipsburg	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
110 Pickering Micro Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 Pigeon Cove	2.0	2.0	2.1	1.3	0.8	0.4	0.3	0.4	0.6	0.8	0.8	1.7	1.9	1.7
112 Pine Creek	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
113 Portland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 Portland Hydro Project	2.3	2.3	2.9	6.7	16	20	18	17	16	17	17	15	8.4	3.2
115 Portneuf River	0.2	0.2	0.1	0	0.1	0.1	0	0	0	0	0	0.2	0.6	0.4
116 Potholes E Canal 66.0	1.8	1.8	1.8	1.6	0	0	0	0	0.6	1.8	1.8	1.8	1.8	1.8
117 Preston City	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4
118 Pristine Springs	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	0.1
119 Pristine Springs #3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120 Quincy Chute	9	9	8	5	0	0	0	0	5	8	8	9	9	9
121 Reynolds Irrigation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
122 Rim View	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123 Rock Creek #1	1.3	1.3	1.9	2	1.5	1.6	1.3	1.2	1.3	1.7	1.7	1.7	1.5	1.3
124 Rock Creek #2	1.8	1.8	1.8	1.9	1.9	1.9	0.6	0.4	1.6	1.9	1.9	1.9	1.9	1.6
125 Rocky Brook	0.5	0.5	0	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	0.2
126 Russel D. Smith	4	4	2.6	1.4	0	0	0	0	0.2	2.4	2.4	3.8	4.2	3.4
127 Sagebrush	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	0.4
128 Sahko	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

Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
129 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Schaffner	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.4
131 Sheep Creek	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.9	1.6	1.6	0.8	1.5	1.1
132 Shingle Creek	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	0.1
133 Shoshone	0.3	0.3	0.3	0.3	0.3	0	0	0	0.1	0.2	0.2	0.4	0.2	0.3
134 Shoshone II	0.6	0.6	0.6	0	0	0	0	0	0	0.3	0.3	0.5	0.6	0.6
135 Snake River Pottery	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
136 Snedigar Ranch	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
137 Solar Research	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
138 South Dry Creek	0.5	0.5	0.5	0.5	0	0	0	0	0.5	0.5	0.5	0.6	0.6	0.5
139 Spokane Upriver	16	16	16	16	16	16	16	16	16	16	16	16	16	16
140 Stauffer Dry Creek	0.9	0.9	1	0.8	0.4	0	0.3	0.3	0.4	0.4	0.4	0.9	2.7	2.1
141 Strawberry Creek	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
142 Summer Falls	79	79	48	22	0	0	0	0	4.8	50	50	71	81	87
143 Sunshine Power #2	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1
144 TGS/Briggs	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1
145 Thomas Burnside	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146 Thompson Mill (Boston Power)	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
147 Tiber Dam Liberty Montana	7	7	5.4	2.5	0.9	0	0	0	0.1	2.6	2.6	6	6.7	7.4
148 Tieton (Yakima)	7.8	7.8	7.8	7.8	0	0	0	0	0	0	7.8	7.8	7.8	7.8
149 Trout Co.	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
150 Tunnel #1	5	5	3	0.6	0	0	0	0	2.8	6	6	6.9	6.9	7
151 Twin Falls	20	20	20	20	20	20	20	20	20	20	20	20	20	20
152 Walla Walla	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.5	1.8	1.8	1.8	1.5	1.5	1.8
153 Water Street / Santiam	0	0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
154 Weeks Falls	5	5	5	5	5	5	5	5	5	5	5	5	5	5
155 White Water Ranch	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
156 Wilson Lake Hydro	7.1	7.1	5.3	2.0	0.2	0	0	0	0	2.3	2.3	6.1	6.8	7.6
157 Wisconsin Creek	0	0	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0
158 Woods Creek	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
159 Total NUG: Hydro	374	372	301	218	159	147	139	150	186	300	309	437	457	448
-NUG: Small Thermal & Misc.-														
160 Covanta Marion Solid Waste	13	13	13	13	13	13	13	13	13	13	13	13	13	13
161 Methane Energy Agricultural D. (Holey)	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
162 Montana One (Colstrip Energy Limited)	12	12	13	14	15	15	14	13	12	12	15	14	13	
163 Pocatello Waste	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
164 Spokane MSW	15	15	15	15	15	15	15	15	15	15	15	15	15	15
165 Treasure Valley	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
166 West Boise Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167 Total NUG: Small Thermal & Misc.	44	44	44	45	46	47	47	46	45	44	44	47	46	44
-NUG: Co-Generation-														
168 Billings Generation	12	12	18	19	21	23	23	22	20	19	19	24	21	19
169 Biomass One	25	25	25	25	25	25	25	25	25	25	25	25	25	25
170 Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171 Champion	3	3	3	3	3	3	3	3	3	3	3	3	3	3
172 Cogen Co	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
173 DR Johnson - Co-Gen II	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	7.5	7.5	7.5
174 Everett Cogen Project (Kimberly Clark)	52	52	52	52	52	52	52	52	0	52	52	52	52	52
175 Evergreen Biopower Cogen (Frederick)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
176 Glenns Ferry Cogen Facility (Magic West)	10	10	10	10	10	10	10	10	10	10	10	10	10	10
177 March Point #1	80	80	80	80	80	80	80	80	80	80	80	80	80	80
178 March Point #2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
179 Potlatch Contract Renewal	75	75	75	75	75	75	75	75	75	75	75	75	75	75
180 Rough & Ready Lumber	1	1	1	1	1	1	1	1	1	1	1	1	1	1
181 Rupert Cogen Facility (Magic Valley)	7.5	8	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8	
182 Simplot Pocatello	9.7	9.7	9.3	8.9	8.1	8.1	7.8	9.2	8.6	8.3	8.3	7.5	4.1	8.6
183 Stimson Lumber (formerly Haley West)	4.7	4.7	4.3	4.4	4.5	4.3	4.0	4.1	4.3	4.1	4.1	4.1	4.2	3.9
184 Tamarack	4.5	4.5	4.5	3.6	4.1	4	3.9	3.9	3.5	3.4	3.4	3.1	4.0	4.4
185 TASC0 Nampa ID	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0.1	0.2
186 TASC0 Twin Falls ID	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
187 Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
188 Warm Springs	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

**Table A-24: Regional NUG Resources By Project And Project Type
PNW Loads and Resource Study
2020 - 2021 Operating Year
[76] 2011 White Book (Final)**

Continued

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
189 West Point	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
190 Total NUG: Co-Generation	380	380	386	387	389	389	389	390	335	384	376	387	383	385
-NUG: Renewables-														
191 Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
192 Bellevue Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Bettencourt B6 anaerobic digester	0.5	1.0	1.0	1.0	1.0	1.2	1.3	1.2	0	0.2	0.2	0.2	0.2	0.4
194 Bettencourt Dairy (Cargill)	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.3	1.0	1.2	1.2	1.1
195 Big Sky Dairy	1	1	1.1	1.1	1.1	1.1	1	1.0	1.1	1.1	1.1	1.1	1.1	1
196 Chinook Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0
197 DeRuyter & Son's Dairy	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
198 Dry Creek Landfill (NUG Renewable)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
199 Emmett Biomass Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 Farm Power Lynden	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
201 Farm Power Rexville	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 Finley Buttes BioEnergy	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
203 Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
204 Healow #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Hidden Hollow Landfill	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
206 Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Lewandowski Farms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Livingston	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Pine Products Corp	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
210 Portland Waste Water	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
211 Puyallup Energy Recovery (PERC)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
212 Qualco Dairy Digester	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
213 Raft River Geothermal Phase 1	13	13	13	13	13	13	13	13	13	13	13	13	13	13
214 VanderHaak Dairy	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
215 White Bluffs Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216 Wild Horse Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Yamhill Solar (Amity, OR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219 Total NUG: Renewables	32	33	33	33	33	33	33	33	32	32	32	32	32	32
-Total Non-Utility Generating Resources-														
220 Federal Entities	3.7	3.7	3.2	4.3	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	3.4
221 Public Entities	224	222	172	118	75	76	75	77	41	169	169	256	276	281
222 Investor-Owned Entities	582	583	567	539	533	522	514	524	539	573	567	622	617	604
223 Other Entities	21	21	21	21	13	13	13	13	13	13	21	21	21	21
224 Total Non-Utility Generation	831	829	764	682	626	615	607	619	598	760	761	903	918	910

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Table A-26
Dedicated Resources
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Generating Public Entities-</i>														
1 Generating Public Entities	4561	4519	4171	4181	4511	4598	4673	4596	4339	4449	4362	4230	5099	4935
2 Total Generating Public Entities	4561	4519	4171	4181	4511	4598	4673	4596	4339	4449	4362	4230	5099	4935
<i>-Non-Generating Public Entities-</i>														
3 Non-Generating Public Entities	103	103	111	118	118	118	118	119	124	110	110	110	110	110
4 Total Non-Generating Public Entities	103	103	111	118	118	118	118	119	124	110	110	110	110	110
<i>-Investor-Owned Entities-</i>														
5 Investor-Owned Entities	11972	11922	11537	10971	10510	10916	10751	10720	10594	10954	10774	10365	10352	10798
6 Total Investor-owned Entities	11972	11922	11537	10971	10510	10916	10751	10720	10594	10954	10774	10365	10352	10798
<i>-Total Dedicated Resources-</i>														
7 Generating Public Entities	4561	4519	4171	4181	4511	4598	4673	4596	4339	4449	4362	4230	5099	4935
8 Small & Non Generating Entities	103	103	111	118	118	118	118	119	124	110	110	110	110	110
9 Investor-Owned Entities	11972	11922	11537	10971	10510	10916	10751	10720	10594	10954	10774	10365	10352	10798
10 Regional Total Dedicated Resources	16636	16545	15819	15270	15139	15632	15542	15436	15056	15514	15247	14706	15561	15844

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	4955	4911	4711	4525	4529	4617	4696	4619	4359	4469	4383	4251	5119	4943
2 Total Generating Public Entities	4955	4911	4711	4525	4529	4617	4696	4619	4359	4469	4383	4251	5119	4943
-Non-Generating Public Entities-														
3 Non-Generating Public Entities	110	110	120	118	118	118	118	119	124	110	110	110	110	110
4 Total Non-Generating Public Entities	110	110	120	118	118	118	118	119	124	110	110	110	110	110
-Investor-Owned Entities-														
5 Investor-Owned Entities	10637	10573	10735	10347	10351	10757	10608	10576	10450	10712	10533	10323	10271	10791
6 Total Investor-owned Entities	10637	10573	10735	10347	10351	10757	10608	10576	10450	10712	10533	10323	10271	10791
-Total Dedicated Resources-														
7 Generating Public Entities	4955	4911	4711	4525	4529	4617	4696	4619	4359	4469	4383	4251	5119	4943
8 Small & Non Generating Entities	110	110	120	118	118	118	118	119	124	110	110	110	110	110
9 Investor-Owned Entities	10637	10573	10735	10347	10351	10757	10608	10576	10450	10712	10533	10323	10271	10791
10 Regional Total Dedicated Resources	15702	15595	15565	14990	14999	15492	15422	15315	14932	15292	15026	14684	15501	15844

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	4962	4919	4718	4533	4540	4627	4702	4625	4364	4472	4385	4253	5121	4945
2 Total Generating Public Entities	4962	4919	4718	4533	4540	4627	4702	4625	4364	4472	4385	4253	5121	4945
-Non-Generating Public Entities-														
3 Non-Generating Public Entities	110	110	120	118	118	118	118	119	124	110	110	110	110	110
4 Total Non-Generating Public Entities	110	110	120	118	118	118	118	119	124	110	110	110	110	110
-Investor-Owned Entities-														
5 Investor-Owned Entities	10636	10572	10734	10345	10354	10760	10610	10579	10452	10713	10004	9594	10264	10838
6 Total Investor-owned Entities	10636	10572	10734	10345	10354	10760	10610	10579	10452	10713	10004	9594	10264	10838
-Total Dedicated Resources-														
7 Generating Public Entities	4962	4919	4718	4533	4540	4627	4702	4625	4364	4472	4385	4253	5121	4945
8 Small & Non Generating Entities	110	110	120	118	118	118	118	119	124	110	110	110	110	110
9 Investor-Owned Entities	10636	10572	10734	10345	10354	10760	10610	10579	10452	10713	10004	9594	10264	10838
10 Regional Total Dedicated Resources	15708	15601	15571	14996	15012	15505	15431	15323	14940	15296	14499	13957	15496	15894

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Generating Public Entities-</i>														
1 Generating Public Entities	4964	4921	4720	4536	4546	4633	4708	4631	4368	4474	4388	4256	5124	4948
2 Total Generating Public Entities	4964	4921	4720	4536	4546	4633	4708	4631	4368	4474	4388	4256	5124	4948
<i>-Non-Generating Public Entities-</i>														
3 Non-Generating Public Entities	110	110	120	118	118	118	118	119	124	110	110	110	110	110
4 Total Non-Generating Public Entities	110	110	120	118	118	118	118	119	124	110	110	110	110	110
<i>-Investor-Owned Entities-</i>														
5 Investor-Owned Entities	10678	10614	10776	10388	10396	10802	10653	10621	10494	10853	10673	10366	10152	10840
6 Total Investor-owned Entities	10678	10614	10776	10388	10396	10802	10653	10621	10494	10853	10673	10366	10152	10840
<i>-Total Dedicated Resources-</i>														
7 Generating Public Entities	4964	4921	4720	4536	4546	4633	4708	4631	4368	4474	4388	4256	5124	4948
8 Small & Non Generating Entities	110	110	120	118	118	118	118	119	124	110	110	110	110	110
9 Investor-Owned Entities	10678	10614	10776	10388	10396	10802	10653	10621	10494	10853	10673	10366	10152	10840
10 Regional Total Dedicated Resources	15752	15645	15616	15042	15060	15553	15478	15371	14985	15438	15171	14732	15387	15898

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Generating Public Entities-</i>														
1 Generating Public Entities	4967	4924	4723	4539	4552	4639	4714	4637	4371	4301	4214	4456	5134	4960
2 Total Generating Public Entities	4967	4924	4723	4539	4552	4639	4714	4637	4371	4301	4214	4456	5134	4960
<i>-Non-Generating Public Entities-</i>														
3 Non-Generating Public Entities	110	110	120	118	118	118	118	119	124	121	121	120	118	120
4 Total Non-Generating Public Entities	110	110	120	118	118	118	118	119	124	121	121	120	118	120
<i>-Investor-Owned Entities-</i>														
5 Investor-Owned Entities	10679	10614	10776	10388	10396	10802	10653	10622	10495	10173	9464	10849	10407	10840
6 Total Investor-owned Entities	10679	10614	10776	10388	10396	10802	10653	10622	10495	10173	9464	10849	10407	10840
<i>-Total Dedicated Resources-</i>														
7 Generating Public Entities	4967	4924	4723	4539	4552	4639	4714	4637	4371	4301	4214	4456	5134	4960
8 Small & Non Generating Entities	110	110	120	118	118	118	118	119	124	121	121	120	118	120
9 Investor-Owned Entities	10679	10614	10776	10388	10396	10802	10653	10622	10495	10173	9464	10849	10407	10840
10 Regional Total Dedicated Resources	15756	15648	15619	15046	15067	15560	15485	15378	14989	14596	13799	15425	15658	15919

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	4961	4918	4718	4531	4529	4618	4693	4616	4365	4289	4202	4443	5122	4947
2 Total Generating Public Entities	4961	4918	4718	4531	4529	4618	4693	4616	4365	4289	4202	4443	5122	4947
-Non-Generating Public Entities-														
3 Non-Generating Public Entities	117	117	127	127	128	130	130	131	135	121	121	120	118	120
4 Total Non-Generating Public Entities	117	117	127	127	128	130	130	131	135	121	121	120	118	120
-Investor-Owned Entities-														
5 Investor-Owned Entities	10679	10615	10777	10389	10397	10803	10495	10465	10340	10121	9942	10546	10106	10695
6 Total Investor-owned Entities	10679	10615	10777	10389	10397	10803	10495	10465	10340	10121	9942	10546	10106	10695
-Total Dedicated Resources-														
7 Generating Public Entities	4961	4918	4718	4531	4529	4618	4693	4616	4365	4289	4202	4443	5122	4947
8 Small & Non Generating Entities	117	117	127	127	128	130	130	131	135	121	121	120	118	120
9 Investor-Owned Entities	10679	10615	10777	10389	10397	10803	10495	10465	10340	10121	9942	10546	10106	10695
10 Regional Total Dedicated Resources	15757	15649	15622	15047	15054	15550	15318	15212	14840	14531	14265	15109	15345	15762

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	4955	4912	4712	4520	4511	4599	4675	4598	4354	4471	4384	4250	5116	4942
2 Total Generating Public Entities	4955	4912	4712	4520	4511	4599	4675	4598	4354	4471	4384	4250	5116	4942
-Non-Generating Public Entities-														
3 Non-Generating Public Entities	117	117	127	127	128	130	130	131	135	122	122	120	118	120
4 Total Non-Generating Public Entities	117	117	127	127	128	130	130	131	135	122	122	120	118	120
-Investor-Owned Entities-														
5 Investor-Owned Entities	10534	10470	10629	10237	10241	10645	10495	10466	10340	10702	10522	9688	10107	10696
6 Total Investor-owned Entities	10534	10470	10629	10237	10241	10645	10495	10466	10340	10702	10522	9688	10107	10696
-Total Dedicated Resources-														
7 Generating Public Entities	4955	4912	4712	4520	4511	4599	4675	4598	4354	4471	4384	4250	5116	4942
8 Small & Non Generating Entities	117	117	127	127	128	130	130	131	135	122	122	120	118	120
9 Investor-Owned Entities	10534	10470	10629	10237	10241	10645	10495	10466	10340	10702	10522	9688	10107	10696
10 Regional Total Dedicated Resources	15606	15498	15468	14885	14880	15374	15300	15194	14830	15294	15027	14058	15341	15757

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	4956	4913	5179	4988	4978	5066	5142	5065	4821	4938	4851	4718	5583	5409
2 Total Generating Public Entities	4956	4913	5179	4988	4978	5066	5142	5065	4821	4938	4851	4718	5583	5409
-Non-Generating Public Entities-														
3 Non-Generating Public Entities	117	117	135	135	136	138	138	139	143	130	130	128	126	128
4 Total Non-Generating Public Entities	117	117	135	135	136	138	138	139	143	130	130	128	126	128
-Investor-Owned Entities-														
5 Investor-Owned Entities	10535	10470	10157	9765	9770	10173	9822	9793	9670	9931	9756	9547	9587	10021
6 Total Investor-owned Entities	10535	10470	10157	9765	9770	10173	9822	9793	9670	9931	9756	9547	9587	10021
-Total Dedicated Resources-														
7 Generating Public Entities	4956	4913	5179	4988	4978	5066	5142	5065	4821	4938	4851	4718	5583	5409
8 Small & Non Generating Entities	117	117	135	135	136	138	138	139	143	130	130	128	126	128
9 Investor-Owned Entities	10535	10470	10157	9765	9770	10173	9822	9793	9670	9931	9756	9547	9587	10021
10 Regional Total Dedicated Resources	15500	15500	15472	14888	14884	15377	15102	14996	14635	14999	14737	14393	15296	15558

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	5423	5380	5180	4989	4979	5068	5143	5066	4823	4940	4853	4719	5585	5411
2 Total Generating Public Entities	5423	5380	5180	4989	4979	5068	5143	5066	4823	4940	4853	4719	5585	5411
-Non-Generating Public Entities-														
3 Non-Generating Public Entities	125	125	135	135	136	138	139	140	144	130	130	129	127	128
4 Total Non-Generating Public Entities	125	125	135	135	136	138	139	140	144	130	130	129	127	128
-Investor-Owned Entities-														
5 Investor-Owned Entities	9862	9796	9953	9562	9568	9973	9823	9793	9668	9932	9222	8861	9434	10023
6 Total Investor-owned Entities	9862	9796	9953	9562	9568	9973	9823	9793	9668	9932	9222	8861	9434	10023
-Total Dedicated Resources-														
7 Generating Public Entities	5423	5380	5180	4989	4979	5068	5143	5066	4823	4940	4853	4719	5585	5411
8 Small & Non Generating Entities	125	125	135	135	136	138	139	140	144	130	130	129	127	128
9 Investor-Owned Entities	9862	9796	9953	9562	9568	9973	9823	9793	9668	9932	9222	8861	9434	10023
10 Regional Total Dedicated Resources	15410	15301	15269	14687	14684	15178	15105	14999	14635	15001	14205	13709	15145	15562

**Table A-26: Dedicated Resources
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	5425	5382	5182	4991	4981	5070	5145	5068	4825	4941	4854	4721	5587	5412
2 Total Generating Public Entities	5425	5382	5182	4991	4981	5070	5145	5068	4825	4941	4854	4721	5587	5412
-Non-Generating Public Entities-														
3 Non-Generating Public Entities	126	126	136	136	137	138	139	140	144	130	130	129	127	128
4 Total Non-Generating Public Entities	126	126	136	136	137	138	139	140	144	130	130	129	127	128
-Investor-Owned Entities-														
5 Investor-Owned Entities	9862	9797	9957	9565	9569	9973	9823	9793	9668	10029	9850	9545	9434	10023
6 Total Investor-owned Entities	9862	9797	9957	9565	9569	9973	9823	9793	9668	10029	9850	9545	9434	10023
-Total Dedicated Resources-														
7 Generating Public Entities	5425	5382	5182	4991	4981	5070	5145	5068	4825	4941	4854	4721	5587	5412
8 Small & Non Generating Entities	126	126	136	136	137	138	139	140	144	130	130	129	127	128
9 Investor-Owned Entities	9862	9797	9957	9565	9569	9973	9823	9793	9668	10029	9850	9545	9434	10023
10 Regional Total Dedicated Resources	15413	15305	15275	14692	14687	15181	15107	15001	14637	15101	14834	14395	15148	15564

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Table A-27
Other Dedicated Resources
Monthly OY 2012 – 2021
1-Hour Capacity in Megawatts

Power Services

Reports Powered by:



Loads and Resources Information System

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2011 - 2012 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	5014	4741	4565	859	913	940	938	939	950	952	955	935	895	905
2 Total Generating Public Entities	5014	4741	4565	859	913	940	938	939	950	952	955	935	895	905
-Non-Generating Public Entities-														
3 Small & Non Generating Public Entities	4761	4598	4636	181	179	183	184	183	181	181	181	136	162	158
4 Total Non-Generating Public Entities	4761	4598	4636	181	179	183	184	183	181	181	181	136	162	158
-Investor-Owned Entities-														
5 Investor-Owned Entities	6577	6577	6339	6823	7595	7969	7952	7870	7160	7057	7056	5784	6417	6939
6 Total Investor-owned Entities	6577	6577	6339	6823	7595	7969	7952	7870	7160	7057	7056	5784	6417	6939
-Total Dedicated Resources-														
7 Generating Public Entities	5014	4741	4565	859	913	940	938	939	950	952	955	935	895	905
8 Non Generating Entities	4761	4598	4636	181	179	183	184	183	181	181	181	136	162	158
9 Investor-Owned Entities	6577	6577	6339	6823	7595	7969	7952	7870	7160	7057	7056	5784	6417	6939
10 Regional Total Dedicated Resources	16352	15917	15541	7864	8687	9092	9074	8992	8291	8190	8193	6854	7474	8003

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Generating Public Entities-</i>														
1 Generating Public Entities	896	895	874	885	919	946	943	945	956	957	961	940	901	911
2 Total Generating Public Entities	896	895	874	885	919	946	943	945	956	957	961	940	901	911
<i>-Non-Generating Public Entities-</i>														
3 Small & Non Generating Public Entities	164	164	176	181	179	183	188	187	186	185	185	140	166	163
4 Total Non-Generating Public Entities	164	164	176	181	179	183	188	187	186	185	185	140	166	163
<i>-Investor-Owned Entities-</i>														
5 Investor-Owned Entities	6787	6787	6657	7181	7923	8113	8092	8010	7479	6186	6186	6006	6663	6752
6 Total Investor-owned Entities	6787	6787	6657	7181	7923	8113	8092	8010	7479	6186	6186	6006	6663	6752
<i>-Total Dedicated Resources-</i>														
7 Generating Public Entities	896	895	874	885	919	946	943	945	956	957	961	940	901	911
8 Non Generating Entities	164	164	176	181	179	183	188	187	186	185	185	140	166	163
9 Investor-Owned Entities	6787	6787	6657	7181	7923	8113	8092	8010	7479	6186	6186	6006	6663	6752
10 Regional Total Dedicated Resources	7846	7846	7708	8248	9021	9242	9223	9142	8621	7329	7332	7087	7731	7826

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2013 - 2014 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	902	901	880	891	919	946	943	945	956	957	961	940	911	921
2 Total Generating Public Entities	902	901	880	891	919	946	943	945	956	957	961	940	911	921
-Non-Generating Public Entities-														
3 Small & Non Generating Public Entities	168	168	181	186	184	188	188	187	186	185	185	140	166	163
4 Total Non-Generating Public Entities	168	168	181	186	184	188	188	187	186	185	185	140	166	163
-Investor-Owned Entities-														
5 Investor-Owned Entities	6599	6599	6552	7055	7797	7988	7972	7889	7358	6884	6411	6249	6352	6714
6 Total Investor-owned Entities	6599	6599	6552	7055	7797	7988	7972	7889	7358	6884	6411	6249	6352	6714
-Total Dedicated Resources-														
7 Generating Public Entities	902	901	880	891	919	946	943	945	956	957	961	940	911	921
8 Non Generating Entities	168	168	181	186	184	188	188	187	186	185	185	140	166	163
9 Investor-Owned Entities	6599	6599	6552	7055	7797	7988	7972	7889	7358	6884	6411	6249	6352	6714
10 Regional Total Dedicated Resources	7668	7668	7613	8132	8900	9121	9102	9021	8500	8026	7557	7330	7429	7798

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2014 - 2015 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Generating Public Entities-</i>														
1 Generating Public Entities	912	911	890	901	929	956	948	950	961	940	944	923	884	894
2 Total Generating Public Entities	912	911	890	901	929	956	948	950	961	940	944	923	884	894
<i>-Non-Generating Public Entities-</i>														
3 Small & Non Generating Public Entities	167	167	181	186	184	188	193	192	191	190	190	145	171	168
4 Total Non-Generating Public Entities	167	167	181	186	184	188	193	192	191	190	190	145	171	168
<i>-Investor-Owned Entities-</i>														
5 Investor-Owned Entities	6594	6594	6568	7073	7815	7982	8066	7984	7451	7398	6926	6368	6730	6821
6 Total Investor-owned Entities	6594	6594	6568	7073	7815	7982	8066	7984	7451	7398	6926	6368	6730	6821
<i>-Total Dedicated Resources-</i>														
7 Generating Public Entities	912	911	890	901	929	956	948	950	961	940	944	923	884	894
8 Non Generating Entities	167	167	181	186	184	188	193	192	191	190	190	145	171	168
9 Investor-Owned Entities	6594	6594	6568	7073	7815	7982	8066	7984	7451	7398	6926	6368	6730	6821
10 Regional Total Dedicated Resources	7774	7673	7640	8160	8927	9126	9207	9125	8603	8529	8060	7437	7785	7882

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2015 - 2016 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	885	884	863	874	902	929	926	928	939	940	944	923	884	894
2 Total Generating Public Entities	885	884	863	874	902	929	926	928	939	940	944	923	884	894
-Non-Generating Public Entities-														
3 Small & Non Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	145	171	168
4 Total Non-Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	145	171	168
-Investor-Owned Entities-														
5 Investor-Owned Entities	6699	6699	6673	7177	7844	8012	7995	7913	7455	6287	6286	6423	6786	6877
6 Total Investor-owned Entities	6699	6699	6673	7177	7844	8012	7995	7913	7455	6287	6286	6423	6786	6877
-Total Dedicated Resources-														
7 Generating Public Entities	885	884	863	874	902	929	926	928	939	940	944	923	884	894
8 Non Generating Entities	173	173	186	191	189	193	193	192	191	190	190	145	171	168
9 Investor-Owned Entities	6699	6699	6673	7177	7844	8012	7995	7913	7455	6287	6286	6423	6786	6877
10 Regional Total Dedicated Resources	7756	7756	7722	8242	8934	9133	9114	9032	8585	7417	7421	7491	7841	7939

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2016 - 2017 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	885	884	863	874	902	929	923	924	935	937	940	920	880	890
2 Total Generating Public Entities	885	884	863	874	902	929	923	924	935	937	940	920	880	890
-Non-Generating Public Entities-														
3 Small & Non Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	145	171	168
4 Total Non-Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	145	171	168
-Investor-Owned Entities-														
5 Investor-Owned Entities	6754	6754	6727	7231	7848	8016	7841	7761	7304	6831	6359	6278	6717	6713
6 Total Investor-owned Entities	6754	6754	6727	7231	7848	8016	7841	7761	7304	6831	6359	6278	6717	6713
-Total Dedicated Resources-														
7 Generating Public Entities	885	884	863	874	902	929	923	924	935	937	940	920	880	890
8 Non Generating Entities	173	173	186	191	189	193	193	192	191	190	190	145	171	168
9 Investor-Owned Entities	6754	6754	6727	7231	7848	8016	7841	7761	7304	6831	6359	6278	6717	6713
10 Regional Total Dedicated Resources	7810	7810	7776	8296	8939	9138	8957	8877	8431	7959	7490	7343	7768	7772

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2017 - 2018 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
<i>-Generating Public Entities-</i>														
1 Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	944	904	914
2 Total Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	944	904	914
<i>-Non-Generating Public Entities-</i>														
3 Small & Non Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	145	171	168
4 Total Non-Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	145	171	168
<i>-Investor-Owned Entities-</i>														
5 Investor-Owned Entities	6614	6590	6560	7084	7615	7781	7764	7684	7267	7215	6743	6282	6676	6720
6 Total Investor-owned Entities	6614	6590	6560	7084	7615	7781	7764	7684	7267	7215	6743	6282	6676	6720
<i>-Total Dedicated Resources-</i>														
7 Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	944	904	914
8 Non Generating Entities	173	173	186	191	189	193	193	192	191	190	190	145	171	168
9 Investor-Owned Entities	6614	6590	6560	7084	7615	7781	7764	7684	7267	7215	6743	6282	6676	6720
10 Regional Total Dedicated Resources	7667	7667	7630	8170	8726	8920	8900	8821	8418	8366	7898	7371	7751	7802

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2018 - 2019 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	966	904	914
2 Total Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	966	904	914
-Non-Generating Public Entities-														
3 Small & Non Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	167	171	168
4 Total Non-Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	167	171	168
-Investor-Owned Entities-														
5 Investor-Owned Entities	6619	6619	6588	7088	7619	7786	7767	7688	7271	6103	6103	6023	6656	6750
6 Total Investor-owned Entities	6619	6619	6588	7088	7619	7786	7767	7688	7271	6103	6103	6023	6656	6750
-Total Dedicated Resources-														
7 Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	966	904	914
8 Non Generating Entities	173	173	186	191	189	193	193	192	191	190	190	167	171	168
9 Investor-Owned Entities	6619	6619	6588	7088	7619	7786	7767	7688	7271	6103	6103	6023	6656	6750
10 Regional Total Dedicated Resources	7696	7696	7658	8173	8730	8924	8903	8824	8421	7254	7258	7156	7732	7833

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2019 - 2020 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	966	904	914
2 Total Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	966	904	914
-Non-Generating Public Entities-														
3 Small & Non Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	167	171	168
4 Total Non-Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	167	171	168
-Investor-Owned Entities-														
5 Investor-Owned Entities	6623	6623	6592	7092	7541	7708	7689	7610	7234	6735	6263	6291	6687	6757
6 Total Investor-owned Entities	6623	6623	6592	7092	7541	7708	7689	7610	7234	6735	6263	6291	6687	6757
-Total Dedicated Resources-														
7 Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	966	904	914
8 Non Generating Entities	173	173	186	191	189	193	193	192	191	190	190	167	171	168
9 Investor-Owned Entities	6623	6623	6592	7092	7541	7708	7689	7610	7234	6735	6263	6291	6687	6757
10 Regional Total Dedicated Resources	7700	7700	7662	8177	8652	8847	8826	8747	8384	7887	7418	7424	7763	7839

**Table A-27: Other Dedicated Resources
PNW Loads and Resource Study
2020 - 2021 Operating Year
1937 Water Year
[76] 2011 White Book (Final)**

5/27/2011

Capacity (MW)	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
-Generating Public Entities-														
1 Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	966	904	914
2 Total Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	966	904	914
-Non-Generating Public Entities-														
3 Small & Non Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	167	171	168
4 Total Non-Generating Public Entities	173	173	186	191	189	193	193	192	191	190	190	167	171	168
-Investor-Owned Entities-														
5 Investor-Owned Entities	6628	6628	6597	7096	7546	7713	7257	7179	6802	6749	6276	6032	5956	6327
6 Total Investor-owned Entities	6628	6628	6597	7096	7546	7713	7257	7179	6802	6749	6276	6032	5956	6327
-Total Dedicated Resources-														
7 Generating Public Entities	905	904	884	894	922	946	944	945	960	961	964	966	904	914
8 Non Generating Entities	173	173	186	191	189	193	193	192	191	190	190	167	171	168
9 Investor-Owned Entities	6628	6628	6597	7096	7546	7713	7257	7179	6802	6749	6276	6032	5956	6327
10 Regional Total Dedicated Resources	7705	7705	7666	8182	8657	8852	8394	8316	7952	7900	7431	7166	7031	7410

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