

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

Loads & Resources Federal Tables  
Monthly OY 2004 – 2013  
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Loads and Resources - Federal System  
PNW Loads and Resources Study  
2003 - 2004 Operating Year  
1937 Water Year  
2002 White Book**

9/9/2003

<b>Average Energy in Megawatts</b>	<b>Aug1</b>	<b>Aug16</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr1</b>	<b>Apr16</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Avg</b>
<b>Non-Utility Obligations</b>															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	103	103	96	103	124	139	141	130	123	110	109	107	113	111	117
USBR 2002 PSC Sale	278	278	193	97	24	15	15	13	37	214	214	271	288	329	148
DSI 2002 PSC Sale	31	31	31	762	762	762	762	762	762	762	762	762	762	762	640
<b>Total Firm Non-Utility Obligations</b>	<b>412</b>	<b>412</b>	<b>320</b>	<b>962</b>	<b>911</b>	<b>916</b>	<b>918</b>	<b>905</b>	<b>922</b>	<b>1086</b>	<b>1086</b>	<b>1140</b>	<b>1163</b>	<b>1202</b>	<b>905</b>
<b>Transfers Out</b>															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2494	2493	2306	2433	2775	3134	3218	3049	2699	2609	2603	2514	2570	2625	2702
GPU 2002 PSC Sale	1785	1785	1857	1950	2315	2616	2631	2557	2396	2138	2132	2036	1781	1792	2154
NGP Slice Sale	838	644	498	604	660	665	544	519	566	538	520	605	706	719	613
GPU Slice Sale	1396	1072	830	1006	1099	1108	906	864	943	895	867	1008	1175	1197	1021
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	1234	1228	1179	1049	1035	1068	988	983	946	971	971	990	1067	1082	1049
Intra-Regional Transfers (Out)	1653	1649	1038	602	946	947	752	683	518	435	435	223	285	282	697
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Transfers Out</b>	<b>9783</b>	<b>9253</b>	<b>8090</b>	<b>8025</b>	<b>9212</b>	<b>9920</b>	<b>9422</b>	<b>9038</b>	<b>8451</b>	<b>7968</b>	<b>7910</b>	<b>7758</b>	<b>7967</b>	<b>8078</b>	<b>8618</b>
<b>Total Firm Obligations</b>	<b>10195</b>	<b>9665</b>	<b>8410</b>	<b>8986</b>	<b>10123</b>	<b>10836</b>	<b>10340</b>	<b>9943</b>	<b>9373</b>	<b>9054</b>	<b>8996</b>	<b>8898</b>	<b>9129</b>	<b>9280</b>	<b>9523</b>
<b>Hydro Resources</b>															
Regulated Hydro	9230	6871	5125	6307	7004	7127	5720	5396	5906	5551	5261	6124	7311	7791	6439
Independent Hydro	437	435	370	385	305	236	176	196	274	433	515	710	746	451	397
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro Resources</b>	<b>9809</b>	<b>7448</b>	<b>5636</b>	<b>6835</b>	<b>7451</b>	<b>7505</b>	<b>6037</b>	<b>5735</b>	<b>6322</b>	<b>6126</b>	<b>5917</b>	<b>6977</b>	<b>8199</b>	<b>8384</b>	<b>6978</b>
<b>Other Resources</b>															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	213	213	247	294	365	422	371	327	294	275	237	100	122	203	268
Intra-Regional Transfers (In)	1767	1767	1968	1891	1950	1840	1692	1667	1648	1392	992	756	893	1447	1559
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Non-Utility Generation	83	82	59	77	102	104	107	97	91	113	113	107	94	75	92
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Other Resources</b>	<b>3091</b>	<b>3089</b>	<b>3301</b>	<b>3290</b>	<b>3445</b>	<b>3398</b>	<b>3202</b>	<b>3123</b>	<b>3064</b>	<b>2810</b>	<b>2372</b>	<b>1989</b>	<b>2137</b>	<b>2752</b>	<b>2948</b>
<b>Total Resources</b>	<b>12900</b>	<b>10538</b>	<b>8937</b>	<b>10125</b>	<b>10897</b>	<b>10903</b>	<b>9239</b>	<b>8857</b>	<b>9386</b>	<b>8936</b>	<b>8289</b>	<b>8966</b>	<b>10336</b>	<b>11136</b>	<b>9926</b>
<b>Reserves &amp; Maintenance</b>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-364	-297	-252	-286	-307	-307	-261	-250	-265	-252	-234	-253	-291	-314	-280
<b>Total Reserves, Maintenance &amp; Losses</b>	<b>-364</b>	<b>-297</b>	<b>-252</b>	<b>-286</b>	<b>-307</b>	<b>-307</b>	<b>-261</b>	<b>-250</b>	<b>-265</b>	<b>-252</b>	<b>-234</b>	<b>-253</b>	<b>-291</b>	<b>-314</b>	<b>-280</b>
<b>Total Net Resources</b>	<b>12536</b>	<b>10240</b>	<b>8685</b>	<b>9839</b>	<b>10589</b>	<b>10596</b>	<b>8979</b>	<b>8607</b>	<b>9121</b>	<b>8684</b>	<b>8056</b>	<b>8714</b>	<b>10044</b>	<b>10822</b>	<b>9646</b>
<b>Total Firm Surplus/Deficit</b>	<b>2341</b>	<b>575</b>	<b>275</b>	<b>853</b>	<b>467</b>	<b>-241</b>	<b>-1361</b>	<b>-1335</b>	<b>-252</b>	<b>-370</b>	<b>-940</b>	<b>-184</b>	<b>915</b>	<b>1542</b>	<b>123</b>

**Loads and Resources - Federal System  
PNW Loads and Resources Study  
2007 - 2008 Operating Year  
1937 Water Year  
2002 White Book**

9/9/2003

<b>Average Energy in Megawatts</b>	<b>Aug1</b>	<b>Aug16</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr1</b>	<b>Apr16</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Avg</b>
<b>Non-Utility Obligations</b>															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	110	110	103	105	127	142	144	133	126	112	111	109	115	114	120
USBR 2002 PSC Sale	278	278	193	97	24	15	15	13	37	214	214	271	288	329	148
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Firm Non-Utility Obligations</b>	<b>389</b>	<b>389</b>	<b>296</b>	<b>202</b>	<b>151</b>	<b>157</b>	<b>159</b>	<b>146</b>	<b>162</b>	<b>326</b>	<b>326</b>	<b>380</b>	<b>403</b>	<b>442</b>	<b>268</b>
<b>Transfers Out</b>															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2919	2919	2669	2711	3100	3433	3565	3387	2986	2904	2896	2821	2903	2959	3030
GPU 2002 PSC Sale	2072	2072	2213	2331	2723	3041	3042	2962	2759	2397	2390	2196	1920	2013	2472
NGP Slice Sale	853	656	509	617	675	680	556	531	577	549	528	611	717	732	625
GPU Slice Sale	1421	1093	848	1027	1124	1132	927	884	961	914	879	1018	1194	1218	1040
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	718	718	711	678	682	699	697	692	684	707	699	713	718	713	701
Intra-Regional Transfers (Out)	197	197	236	291	621	634	632	569	409	377	377	167	567	226	411
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Transfers Out</b>	<b>8181</b>	<b>7656</b>	<b>7186</b>	<b>7654</b>	<b>8925</b>	<b>9620</b>	<b>9419</b>	<b>9025</b>	<b>8376</b>	<b>7848</b>	<b>7769</b>	<b>7526</b>	<b>8020</b>	<b>7861</b>	<b>8278</b>
<b>Total Firm Obligations</b>	<b>8569</b>	<b>8045</b>	<b>7482</b>	<b>7857</b>	<b>9076</b>	<b>9777</b>	<b>9577</b>	<b>9171</b>	<b>8538</b>	<b>8174</b>	<b>8095</b>	<b>7906</b>	<b>8422</b>	<b>8304</b>	<b>8546</b>
<b>Hydro Resources</b>															
Regulated Hydro	9358	6971	5203	6407	7131	7252	5812	5483	5984	5633	5296	6136	7392	7894	6527
Independent Hydro	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	138	138	138	138	138	138	138	138	138	137	137	137	137	137	138
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro Resources</b>	<b>9934</b>	<b>7545</b>	<b>5712</b>	<b>6931</b>	<b>7575</b>	<b>7627</b>	<b>6126</b>	<b>5818</b>	<b>6397</b>	<b>6205</b>	<b>5949</b>	<b>6986</b>	<b>8277</b>	<b>8484</b>	<b>7062</b>
<b>Other Resources</b>															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	132	132	165	199	267	324	298	254	224	225	172	82	100	131	198
Intra-Regional Transfers (In)	184	184	345	334	380	316	340	321	306	301	301	167	302	159	288
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Non-Utility Generation	109	109	102	116	127	127	130	125	119	121	121	118	120	109	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Other Resources</b>	<b>1451</b>	<b>1452</b>	<b>1639</b>	<b>1677</b>	<b>1803</b>	<b>1798</b>	<b>1800</b>	<b>1731</b>	<b>1679</b>	<b>1677</b>	<b>1625</b>	<b>1394</b>	<b>1550</b>	<b>1426</b>	<b>1633</b>
<b>Total Resources</b>	<b>11385</b>	<b>8997</b>	<b>7351</b>	<b>8608</b>	<b>9377</b>	<b>9425</b>	<b>7926</b>	<b>7549</b>	<b>8077</b>	<b>7882</b>	<b>7574</b>	<b>8380</b>	<b>9827</b>	<b>9910</b>	<b>8696</b>
<b>Reserves &amp; Maintenance</b>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-321	-254	-207	-243	-264	-266	-224	-213	-228	-222	-214	-236	-277	-279	-245
<b>Total Reserves, Maintenance &amp; Losses</b>	<b>-321</b>	<b>-254</b>	<b>-207</b>	<b>-243</b>	<b>-264</b>	<b>-266</b>	<b>-224</b>	<b>-213</b>	<b>-228</b>	<b>-222</b>	<b>-214</b>	<b>-236</b>	<b>-277</b>	<b>-279</b>	<b>-245</b>
<b>Total Net Resources</b>	<b>11064</b>	<b>8744</b>	<b>7144</b>	<b>8365</b>	<b>9113</b>	<b>9159</b>	<b>7703</b>	<b>7336</b>	<b>7849</b>	<b>7660</b>	<b>7360</b>	<b>8143</b>	<b>9550</b>	<b>9630</b>	<b>8450</b>
<b>Total Firm Surplus/Deficit</b>	<b>2495</b>	<b>699</b>	<b>-338</b>	<b>508</b>	<b>37</b>	<b>-617</b>	<b>-1875</b>	<b>-1835</b>	<b>-690</b>	<b>-515</b>	<b>-735</b>	<b>237</b>	<b>1127</b>	<b>1327</b>	<b>-96</b>



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

Loads & Resources Regional Tables  
Monthly OY 2004 – 2013  
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Loads and Resources - Pacific Northwest Region**  
**PNW Loads and Resources Study**  
**2003 - 2004 Operating Year**  
**1937 Water Year**  
**2002 White Book**

9/9/2003

<b>Average Energy in Megawatts</b>	<b>Aug1</b>	<b>Aug16</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr1</b>	<b>Apr16</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Avg</b>
<b>Firm Regional Loads</b>															
Regional Firm Loads	19591	19591	18294	18873	20878	22886	23342	22407	20639	19687	19664	19031	19525	20240	20449
Exports	1980	1974	1919	1561	1521	1573	1449	1443	1401	1420	1420	1390	1725	1751	1594
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Firm Regional Loads</b>	<b>21571</b>	<b>21565</b>	<b>20214</b>	<b>20434</b>	<b>22399</b>	<b>24460</b>	<b>24792</b>	<b>23849</b>	<b>22040</b>	<b>21107</b>	<b>21084</b>	<b>20421</b>	<b>21250</b>	<b>21991</b>	<b>22043</b>
<b>Non-Firm Regional Loads</b>															
Regional Non-Firm Loads	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
<b>Total Non-Firm Regional Loads</b>	<b>153</b>	<b>153</b>	<b>158</b>	<b>149</b>	<b>163</b>	<b>150</b>	<b>147</b>	<b>158</b>	<b>124</b>	<b>165</b>	<b>165</b>	<b>141</b>	<b>150</b>	<b>149</b>	<b>151</b>
<b>Total Loads</b>	<b>21724</b>	<b>21718</b>	<b>20372</b>	<b>20583</b>	<b>22562</b>	<b>24610</b>	<b>24938</b>	<b>24008</b>	<b>22163</b>	<b>21272</b>	<b>21249</b>	<b>20562</b>	<b>21400</b>	<b>22140</b>	<b>22193</b>
<b>Hydro Resources</b>															
Regulated Hydro	13458	10443	8439	10385	11572	11738	9942	8603	9783	9568	9381	9841	12987	12457	10598
Independent Hydro	1048	1075	1010	982	902	969	783	797	944	1212	1266	1553	1603	1160	1084
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro Resources</b>	<b>14506</b>	<b>11518</b>	<b>9449</b>	<b>11367</b>	<b>12473</b>	<b>12706</b>	<b>10724</b>	<b>9400</b>	<b>10728</b>	<b>10779</b>	<b>10647</b>	<b>11394</b>	<b>14589</b>	<b>13617</b>	<b>11681</b>
<b>Other Resources</b>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2194	2194	2060	1902	2101	2239	2239	2234	2214	1927	1927	1193	1726	2189	2018
Renewables	77	77	77	78	79	81	82	81	81	80	80	55	77	77	77
Cogeneration	2117	1914	2120	2123	2129	2126	2134	2131	1508	2124	2124	920	2119	2109	1963
Imports	819	819	720	732	1130	1184	1077	1027	819	709	671	478	655	786	843
Large Thermal	6410	6410	6359	5963	6410	6410	6410	6410	6283	5729	5673	4013	6002	6410	6065
Non-Utility Generation	1347	1346	1275	1215	1230	1242	1237	1240	1254	1434	1434	1178	1569	1497	1310
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Other Resources</b>	<b>12981</b>	<b>12776</b>	<b>12628</b>	<b>12030</b>	<b>13094</b>	<b>13299</b>	<b>13195</b>	<b>13140</b>	<b>12176</b>	<b>12020</b>	<b>11926</b>	<b>7853</b>	<b>12165</b>	<b>13084</b>	<b>12293</b>
<b>Total Resources</b>	<b>27487</b>	<b>24294</b>	<b>22077</b>	<b>23398</b>	<b>25568</b>	<b>26005</b>	<b>23920</b>	<b>22540</b>	<b>22903</b>	<b>22799</b>	<b>22573</b>	<b>19247</b>	<b>26754</b>	<b>26701</b>	<b>23974</b>
<b>Reserves &amp; Maintenance</b>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-774	-684	-622	-660	-721	-733	-675	-636	-646	-643	-636	-542	-754	-752	-676
<b>Total Reserves, Maintenance &amp; Losses</b>	<b>-804</b>	<b>-709</b>	<b>-631</b>	<b>-669</b>	<b>-725</b>	<b>-733</b>	<b>-675</b>	<b>-636</b>	<b>-651</b>	<b>-650</b>	<b>-644</b>	<b>-562</b>	<b>-768</b>	<b>-801</b>	<b>-688</b>
<b>Total Net Resources</b>	<b>26683</b>	<b>23585</b>	<b>21446</b>	<b>22729</b>	<b>24843</b>	<b>25272</b>	<b>23245</b>	<b>21904</b>	<b>22252</b>	<b>22149</b>	<b>21929</b>	<b>18685</b>	<b>25986</b>	<b>25900</b>	<b>23286</b>
<b>Surplus/Deficits</b>															
Firm Surplus/Deficit	5111	2020	1233	2295	2444	812	-1546	-1945	212	1042	845	-1736	4736	3909	1244
<b>Total Surplus/Deficit</b>	<b>4959</b>	<b>1868</b>	<b>1075</b>	<b>2146</b>	<b>2281</b>	<b>662</b>	<b>-1693</b>	<b>-2103</b>	<b>89</b>	<b>876</b>	<b>679</b>	<b>-1877</b>	<b>4586</b>	<b>3760</b>	<b>1093</b>



**Loads and Resources - Pacific Northwest Region**  
**PNW Loads and Resources Study**  
**2007 - 2008 Operating Year**  
**1937 Water Year**  
**2002 White Book**

9/9/2003

<b>Average Energy in Megawatts</b>	<b>Aug1</b>	<b>Aug16</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr1</b>	<b>Apr16</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Avg</b>
<b>Firm Regional Loads</b>															
Regional Firm Loads	21008	21008	19680	20192	22324	24529	25053	23948	22167	21130	21106	20431	20940	21693	21924
Exports	993	993	982	889	879	895	893	889	881	903	895	862	970	967	917
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Firm Regional Loads</b>	<b>22001</b>	<b>22001</b>	<b>20663</b>	<b>21081</b>	<b>23202</b>	<b>25424</b>	<b>25946</b>	<b>24837</b>	<b>23048</b>	<b>22033</b>	<b>22001</b>	<b>21292</b>	<b>21910</b>	<b>22659</b>	<b>22840</b>
<b>Non-Firm Regional Loads</b>															
Regional Non-Firm Loads	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
<b>Total Non-Firm Regional Loads</b>	<b>153</b>	<b>153</b>	<b>158</b>	<b>149</b>	<b>163</b>	<b>150</b>	<b>147</b>	<b>158</b>	<b>124</b>	<b>165</b>	<b>165</b>	<b>141</b>	<b>150</b>	<b>149</b>	<b>151</b>
<b>Total Loads</b>	<b>22154</b>	<b>22154</b>	<b>20820</b>	<b>21230</b>	<b>23365</b>	<b>25574</b>	<b>26092</b>	<b>24996</b>	<b>23171</b>	<b>22198</b>	<b>22166</b>	<b>21433</b>	<b>22060</b>	<b>22808</b>	<b>22991</b>
<b>Hydro Resources</b>															
Regulated Hydro	13587	10544	8518	10484	11698	11863	10034	8690	9862	9650	9416	9853	13068	12560	10686
Independent Hydro	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro Resources</b>	<b>14635</b>	<b>11620</b>	<b>9528</b>	<b>11468</b>	<b>12601</b>	<b>12832</b>	<b>10818</b>	<b>9488</b>	<b>10807</b>	<b>10863</b>	<b>10683</b>	<b>11408</b>	<b>14673</b>	<b>13721</b>	<b>11770</b>
<b>Other Resources</b>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	3114	3114	2980	2827	3025	3163	3164	3159	3139	2198	2198	1846	2651	3114	2865
Renewables	77	77	77	78	79	81	82	81	81	80	80	55	77	77	77
Cogeneration	2117	1914	2120	2123	2129	2126	2134	2131	1508	2124	2124	920	2119	2109	1963
Imports	637	637	533	525	736	781	831	810	732	662	609	465	646	732	672
Large Thermal	6368	6368	6368	6368	6368	6368	6368	6368	6308	6358	6258	3206	6318	6368	6091
Non-Utility Generation	1448	1448	1336	1278	1281	1259	1250	1258	1272	1432	1431	1185	1577	1520	1341
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Other Resources</b>	<b>13778</b>	<b>13575</b>	<b>13431</b>	<b>13216</b>	<b>13635</b>	<b>13796</b>	<b>13847</b>	<b>13824</b>	<b>13057</b>	<b>12871</b>	<b>12718</b>	<b>7694</b>	<b>13406</b>	<b>13937</b>	<b>13026</b>
<b>Total Resources</b>	<b>28413</b>	<b>25195</b>	<b>22959</b>	<b>24683</b>	<b>26236</b>	<b>26628</b>	<b>24665</b>	<b>23312</b>	<b>23864</b>	<b>23734</b>	<b>23401</b>	<b>19102</b>	<b>28078</b>	<b>27659</b>	<b>24796</b>
<b>Reserves &amp; Maintenance</b>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-800	-710	-647	-696	-740	-751	-696	-657	-673	-669	-660	-538	-791	-779	-699
<b>Total Reserves, Maintenance &amp; Losses</b>	<b>-830</b>	<b>-734</b>	<b>-656</b>	<b>-705</b>	<b>-744</b>	<b>-751</b>	<b>-696</b>	<b>-657</b>	<b>-678</b>	<b>-676</b>	<b>-667</b>	<b>-558</b>	<b>-806</b>	<b>-828</b>	<b>-711</b>
<b>Total Net Resources</b>	<b>27583</b>	<b>24460</b>	<b>22303</b>	<b>23978</b>	<b>25493</b>	<b>25877</b>	<b>23969</b>	<b>22654</b>	<b>23186</b>	<b>23057</b>	<b>22734</b>	<b>18544</b>	<b>27272</b>	<b>26831</b>	<b>24085</b>
<b>Surplus/Deficits</b>															
Firm Surplus/Deficit	5582	2459	1641	2898	2290	453	-1977	-2183	138	1025	733	-2749	5362	4171	1245
<b>Total Surplus/Deficit</b>	<b>5429</b>	<b>2307</b>	<b>1483</b>	<b>2748</b>	<b>2127</b>	<b>303</b>	<b>-2123</b>	<b>-2341</b>	<b>14</b>	<b>859</b>	<b>568</b>	<b>-2890</b>	<b>5212</b>	<b>4022</b>	<b>1095</b>

**Loads and Resources - Pacific Northwest Region**  
**PNW Loads and Resources Study**  
**2012 - 2013 Operating Year**  
**1937 Water Year**  
**2002 White Book**

9/9/2003

<b>Average Energy in Megawatts</b>	<b>Aug1</b>	<b>Aug16</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr1</b>	<b>Apr16</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Avg</b>
<b>Firm Regional Loads</b>															
Regional Firm Loads	22841	22841	21447	22045	24240	26637	27030	26195	23974	22710	22685	22042	22610	23448	23767
Exports	937	937	925	861	861	881	878	873	863	884	884	845	946	944	892
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Firm Regional Loads</b>	<b>23778</b>	<b>23778</b>	<b>22372</b>	<b>22906</b>	<b>25101</b>	<b>27518</b>	<b>27908</b>	<b>27069</b>	<b>24838</b>	<b>23594</b>	<b>23569</b>	<b>22888</b>	<b>23556</b>	<b>24393</b>	<b>24659</b>
<b>Non-Firm Regional Loads</b>															
Regional Non-Firm Loads	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
<b>Total Non-Firm Regional Loads</b>	<b>153</b>	<b>153</b>	<b>158</b>	<b>149</b>	<b>163</b>	<b>150</b>	<b>147</b>	<b>158</b>	<b>124</b>	<b>165</b>	<b>165</b>	<b>141</b>	<b>150</b>	<b>149</b>	<b>151</b>
<b>Total Loads</b>	<b>23931</b>	<b>23931</b>	<b>22530</b>	<b>23055</b>	<b>25264</b>	<b>27668</b>	<b>28055</b>	<b>27227</b>	<b>24961</b>	<b>23759</b>	<b>23734</b>	<b>23029</b>	<b>23706</b>	<b>24542</b>	<b>24810</b>
<b>Hydro Resources</b>															
Regulated Hydro	13693	10630	8580	10559	11784	11951	10105	8755	9934	9727	9474	9908	13141	12663	10762
Independent Hydro	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro Resources</b>	<b>14742</b>	<b>11706</b>	<b>9590</b>	<b>11542</b>	<b>12687</b>	<b>12920</b>	<b>10888</b>	<b>9553</b>	<b>10879</b>	<b>10940</b>	<b>10741</b>	<b>11463</b>	<b>14746</b>	<b>13824</b>	<b>11846</b>
<b>Other Resources</b>															
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	3114	3114	2980	2827	3025	3163	3164	3159	3139	2198	2198	1846	2651	3114	2865
Renewables	77	77	77	78	79	81	82	81	81	80	80	55	77	77	77
Cogeneration	2117	1914	2120	2123	2129	2126	2134	2131	1508	2124	2124	920	2119	2109	1963
Imports	626	626	517	504	622	662	712	678	620	549	524	464	652	741	611
Large Thermal	6369	6369	6369	6369	6369	6369	6369	6369	6306	6318	6259	2906	5155	6369	5967
Non-Utility Generation	1449	1449	1335	1278	1288	1267	1259	1266	1279	1439	1439	1185	1586	1522	1346
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Other Resources</b>	<b>13768</b>	<b>13565</b>	<b>13415</b>	<b>13195</b>	<b>13530</b>	<b>13686</b>	<b>13736</b>	<b>13700</b>	<b>12949</b>	<b>12726</b>	<b>12641</b>	<b>7392</b>	<b>12256</b>	<b>13949</b>	<b>12847</b>
<b>Total Resources</b>	<b>28510</b>	<b>25272</b>	<b>23005</b>	<b>24737</b>	<b>26216</b>	<b>26606</b>	<b>24625</b>	<b>23253</b>	<b>23829</b>	<b>23666</b>	<b>23382</b>	<b>18855</b>	<b>27002</b>	<b>27774</b>	<b>24693</b>
<b>Reserves &amp; Maintenance</b>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-30	-25	-8.6	-9	-3.8	0	0	0	-5.2	-7.4	-7.6	-20	-14	-49	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-803	-712	-649	-697	-739	-750	-694	-656	-672	-667	-659	-531	-761	-782	-696
<b>Total Reserves, Maintenance &amp; Losses</b>	<b>-833</b>	<b>-737</b>	<b>-657</b>	<b>-706</b>	<b>-743</b>	<b>-750</b>	<b>-694</b>	<b>-656</b>	<b>-677</b>	<b>-675</b>	<b>-667</b>	<b>-551</b>	<b>-775</b>	<b>-831</b>	<b>-708</b>
<b>Total Net Resources</b>	<b>27677</b>	<b>24535</b>	<b>22348</b>	<b>24031</b>	<b>25473</b>	<b>25856</b>	<b>23930</b>	<b>22598</b>	<b>23152</b>	<b>22991</b>	<b>22716</b>	<b>18304</b>	<b>26227</b>	<b>26942</b>	<b>23985</b>
<b>Surplus/Deficits</b>															
Firm Surplus/Deficit	3899	757	-24	1125	372	-1662	-3978	-4471	-1686	-603	-853	-4584	2671	2550	-674
<b>Total Surplus/Deficit</b>	<b>3746</b>	<b>604</b>	<b>-182</b>	<b>976</b>	<b>209</b>	<b>-1812</b>	<b>-4124</b>	<b>-4629</b>	<b>-1810</b>	<b>-768</b>	<b>-1018</b>	<b>-4725</b>	<b>2520</b>	<b>2401</b>	<b>-825</b>

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

50 Water Year Surplus/Deficit  
Federal Tables  
Monthly OY 2004 – 2013  
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System



**Federal Surplus/Deficit by Water Year  
PNW Loads and Resources Study  
2007 - 2008 Operating Year  
2002 White Book**

9/9/2003

<i>Average Energy in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Avg</i>
1929 Federal Surplus/Deficit	2952	889	-260	338	-48	-587	-54	-2048	-690	-738	-1007	-176	1743	1746	84
1930 Federal Surplus/Deficit	1583	667	-372	513	113	-607	-2137	-1077	-638	-367	-593	-231	1648	1973	-14
1931 Federal Surplus/Deficit	2052	929	-248	458	78	-560	-2088	-2024	-860	162	-1228	283	1161	1073	-147
1932 Federal Surplus/Deficit	1919	461	-223	369	-36	-651	-2060	-2176	541	3069	4871	5244	4485	2900	1129
1933 Federal Surplus/Deficit	3226	2285	-29	524	-284	280	2443	1706	-675	523	1424	3588	6770	5276	1944
1934 Federal Surplus/Deficit	2761	3044	569	1645	1448	4613	5605	4026	2607	5768	5126	4695	987	2519	3089
1935 Federal Surplus/Deficit	1326	-37	-414	268	-323	-174	1900	2364	-1178	315	2123	2861	3340	2883	1116
1936 Federal Surplus/Deficit	2760	945	-241	463	-13	-596	-1385	-2009	-460	-476	1822	6389	2988	1846	792
1937 Federal Surplus/Deficit	2495	699	-338	508	37	-617	-1875	-1835	-690	-515	-735	237	1127	1327	-96
1938 Federal Surplus/Deficit	2099	319	-347	671	-93	-527	2704	-329	1582	2427	2611	5441	3721	2465	1585
1939 Federal Surplus/Deficit	1853	527	61	584	-17	-628	339	-1723	-117	358	1187	4102	1654	1953	681
1940 Federal Surplus/Deficit	2681	820	-331	699	-70	-412	-311	-930	1809	1278	1943	2765	2397	1332	859
1941 Federal Surplus/Deficit	1756	393	-381	485	-190	-15	242	-1982	-594	-874	-833	861	1967	689	109
1942 Federal Surplus/Deficit	1527	534	-6	427	-311	1561	2853	-1356	-1182	-167	638	2500	4925	3431	1176
1943 Federal Surplus/Deficit	3204	2233	-41	485	-186	-200	2074	1376	2240	5414	4765	5378	4720	3539	2266
1944 Federal Surplus/Deficit	2989	2153	-45	590	14	-650	318	-1974	-1111	-686	-1173	-197	890	524	0.1
1945 Federal Surplus/Deficit	1618	25	-265	297	-18	-644	-2018	-1558	-824	-616	-906	2758	3973	1894	305
1946 Federal Surplus/Deficit	1791	1297	-455	602	-7.7	-576	755	781	2332	2887	3859	5732	4123	3365	1798
1947 Federal Surplus/Deficit	3295	1931	184	470	-37	2382	3084	2302	2605	1279	2736	4869	3807	2998	2274
1948 Federal Surplus/Deficit	3301	1343	14	2661	947	1291	2952	-145	1196	1509	3677	6871	7484	3809	2666
1949 Federal Surplus/Deficit	2890	3342	901	766	-117	38	891	-306	3420	1567	4584	5754	3628	1224	1866
1950 Federal Surplus/Deficit	1583	60	-649	496	-196	-855	1151	2716	4176	3956	3778	4632	6571	3919	2221
1951 Federal Surplus/Deficit	2505	2788	341	1495	1443	3369	4465	4503	2840	3815	4314	5776	2992	3836	3148
1952 Federal Surplus/Deficit	2989	2893	642	2117	139	1698	2727	1222	1595	4037	4486	6774	3929	2233	2523
1953 Federal Surplus/Deficit	3006	1195	-110	459	73	-613	107	2341	-195	-596	1080	4307	6333	3997	1587
1954 Federal Surplus/Deficit	3133	1989	217	744	58	739	1758	2586	1186	3240	2553	5109	5830	4719	2367
1955 Federal Surplus/Deficit	4127	3099	2832	1338	569	878	-244	-1649	-1044	336	-73	2245	7146	5790	1800
1956 Federal Surplus/Deficit	2905	3270	109	1209	844	3038	5005	1743	3552	4015	5977	6822	7136	4171	3476
1957 Federal Surplus/Deficit	3263	2498	159	867	-148	906	1457	-1010	811	4585	2860	6367	6846	2420	2107
1958 Federal Surplus/Deficit	2148	755	-198	600	-17	-487	975	1265	1409	573	3462	5715	5308	1985	1669
1959 Federal Surplus/Deficit	2177	1036	-100	493	467	1664	4478	2932	1420	2748	1999	4000	5785	4529	2471
1960 Federal Surplus/Deficit	3005	2320	2612	3293	1933	2550	2730	-87	1237	5873	3826	3539	4125	3025	2706
1961 Federal Surplus/Deficit	3300	905	-28	646	193	7.1	1513	1965	2096	2789	2829	4266	6715	2568	2071
1962 Federal Surplus/Deficit	2361	1407	-389	561	-36	-739	1391	-1044	-649	4179	4524	3694	3259	3251	1295
1963 Federal Surplus/Deficit	2819	1826	-153	1064	611	1642	1718	513	488	426	754	4506	3887	2969	1680
1964 Federal Surplus/Deficit	3529	2040	291	384	21	-369	1259	-278	-692	1502	1625	3285	6807	5306	1697
1965 Federal Surplus/Deficit	3038	2732	894	1463	152	3248	5521	4108	3098	2518	4407	5541	4678	2524	3131
1966 Federal Surplus/Deficit	3101	2501	245	997	199	829	2372	-542	-393	3225	1473	3608	2719	3341	1544
1967 Federal Surplus/Deficit	3343	1656	-291	456	-38	-24	2786	3521	568	2160	974	2360	6362	4614	2032
1968 Federal Surplus/Deficit	3102	2404	351	811	87	667	2273	1587	1376	-904	854	2486	4508	4266	1762
1969 Federal Surplus/Deficit	3264	2543	1297	1583	987	1524	4331	3058	1850	5007	4553	6620	4380	3205	3043
1970 Federal Surplus/Deficit	3198	1255	-111	583	87	-206	1876	1514	-173	-431	1665	3537	4856	1344	1346
1971 Federal Surplus/Deficit	2003	906	-385	577	182	-335	3539	5086	2602	3250	4026	6974	6581	4496	2867
1972 Federal Surplus/Deficit	3220	3424	515	663	99	810	3341	4695	5193	5514	2498	6676	7025	4928	3439
1973 Federal Surplus/Deficit	3774	3119	970	831	-34	1045	2727	-1691	-757	-1038	-931	708	1924	1680	822
1974 Federal Surplus/Deficit	1896	210	-480	201	-335	1848	6013	5046	3930	4804	5469	6091	7154	6169	3486
1975 Federal Surplus/Deficit	3284	3395	917	345	-13	-101	2146	1082	2620	1596	1901	4430	5311	5191	2251
1976 Federal Surplus/Deficit	2105	1362	288	1240	1256	4136	4363	2933	2024	4745	3577	6179	3386	4734	3036
1977 Federal Surplus/Deficit	4692	4327	3462	987	-6.7	-468	346	-2064	-1436	-1180	-1458	565	545	504	469
1978 Federal Surplus/Deficit	1932	28	-506	29	-223	-296	1464	-36	2487	1607	2399	3952	3047	3356	1355
<b>-Ranked Averages-</b>															
Top Ten Percent	2713	2485	276	1006	441	2463	4869	4019	3723	4133	4533	6181	5797	4325	3336
Middle Eighty Percent	2731	1625	259	823	171	488	1733	649	898	1899	2309	4242	4428	3139	1759
Bottom Ten Percent	2414	1067	-253	481	39	-604	-1167	-1791	-798	-429	-947	-17	1314	1329	-35



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



50 Water Year Surplus/Deficit  
Regional Tables  
Monthly OY 2004 – 2013  
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System





