

Bonneville Power Administration
Power Business Line

2003 Safety-Net Cost Recovery Adjustment Clause Initial Proposal

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SN-03-E-BPA-02

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CHAPTER TWO: LOADS AND RESOURCES

2.1 BONNEVILLE POWER ADMINISTRATION SALES FORECAST

INTRODUCTION

Bonneville Power Administration (BPA) forecasts sales to three of its main customer groups: public body and cooperative utilities and Federal agencies (Public Agencies), investor-owned utilities (IOU), and direct service industrial customers (DSI). These sales forecasts, together with additional inter- and intra-regional contractual obligations, constitute the Federal system firm load forecast used in BPA's 2003 Safety-Net Cost Recovery Adjustment Clause (SN CRAC) Initial Proposal Loads and Resources Study. The methodologies and assumptions employed in developing BPA's sales forecasts are detailed in the following sections of this Documentation.

2.2 PUBLIC AGENCIES SALES FORECAST

2.2.1 Overview

2.2.1.1 Load Forecast. BPA analysts routinely produce a forecast for each PNW Public Agency that signed a Subscription contract under which BPA follows the utility's load. The Power Business Line (PBL) works with each customer to determine the amount of requirements service which that customer is entitled to purchase. These amounts, or net requirements, then form the basis for the sales forecast used in these studies.

Monthly net requirement amounts were estimated for the 4 years of the study period for each utility that signed a pre-Subscription or Subscription Contract. These estimates were then used

to project the amount of each product (full service, partial service, and block products) that each utility would purchase through its Subscription contract. Total sales were derived by summing the total monthly and diurnal sales forecasts for customers by type of product.

BPA's PF sales forecast includes sales by billing determinants: heavy load hour (HLH) energy, light load hour (LLH) energy, demand, and load variance.

2.2.2 PF Sales Forecast Process

The utility-specific total retail loads were estimated using one of two basic methods. In general, total retail loads for those utilities served by the Eastern Power Business Area (EPBA) were projected using a linear trend method. Annual loads were projected using a linear trend algorithm. These annual amounts were then shaped to months and diurnal periods using historical averages. Monthly peak loads were estimated using average historical relationships of energy to peak (load factors).

The total retail loads of utilities served by the Western Power Business Area (WPBA) were calculated using a slightly different method. First, the monthly historic loads were temperature-adjusted. Then, the annual totals were calculated and historical growth rate estimated. The annual total of the last year of the historical period was then escalated by this growth rate. The historical loads to which this growth rate is applied reflects consumer responses to the recent economic recession, elasticity effects from the increase in BPA rates due to the Load-Based CRAC, and any conservation savings realized from implemented Conservation Augmentation measures. As in the EPBA, monthly shapes and diurnal percentages

were estimated from historical data and applied to the annual projection. Monthly peaks were estimated by applying historical average load factors to the monthly energy projections.

In the summer of 2001 it became apparent that the rate increase under the Load-Based Cost Recovery Adjustment Clause would be very large due to a drought and the California energy market crisis. In an attempt to reduce the size of that rate increase BPA requested customers to reduce their purchases from BPA for FY 2002 and 2003. Many customers responded by agreeing to one or more of a variety of load reduction programs offered by BPA. Some customers agreed to reduce purchases for only FY 2002 while for others the reductions extended into or through FY 2003. These sales forecasts reflect those reductions.

For forecasts from both power business areas, estimates of customer-owned generation were then subtracted from the appropriate customer's total retail load to produce forecasts of net requirements for each utility. These net requirements provided the basis for the sales projections for the Full and Partial products. The Block product sales were specified by contract. The customers purchasing each product (Full Service, Partial Service, Slice/Block, and Block) are listed in Tables 2-1 through 2-4, respectively.

Slice is a requirements power sales contract product that provides a fixed percentage of the energy generated by the Federal system Slice resources to public preference customers who signed up. The Slice product was contracted for 10 years and differs from traditional power sales contract products in that the power sold through the Slice product is shaped to the generation output of specific Federal system Slice resources rather than the purchaser's load. The Federal system Slice resources contain specific Federal resources less specific Federal

obligations. The Federal Slice resources include the outputs of the Federal hydroelectric projects, Columbia Generating Station, James River Wauna, and Federal Non-Utility Generation; and power deliveries from the Non-Federal Canadian Entitlement Return (CER) for CSPE, Non-Federal CER for Canada, and Non-Federal Supplemental Entitlement Capacity replacement. The Federal Slice contract obligations include deliveries for the CER Return to Canada, Non-Federal CER for CSPE, Non-Federal Supplemental Entitlement Capacity, and Federal pumping loads. These Federal resources less Federal obligations comprise the Federal system Slice resources. Slice customers purchased 22.63 percent of the output of the Federal system Slice resources. Depending on water conditions, the actual amount of Slice product deliveries will vary. Thereby, during certain parts of the year and under certain water conditions, power deliveries will exceed the purchaser's net firm requirements. As a consequence, the Slice product offers participants the opportunity to sell surplus power, but also may require purchases to meet loads depending on hydro and other conditions.

Because pre-Subscription contracts are not subject to the SN CRAC, the sales under these contracts are not included in the PF sales forecasts. However these contracts do represent BPA sales obligations and so reduce BPA's resource inventories.

Table 2-1

Full Service Customers

Alder	Ellensburg	Oregon Trail
Ashland	Emerald	Pacific Co
Bandon	EnergyNW	Peninsula
Bangor	Fairchild	Plummer
Benton REA	Ferry	Port Angeles
BIA-Wapato	Forest Grove	Richland

Big Bend	Harney	Rupert
Blaine	Hermiston	Salem
Bonners Ferry	Heyburn	Skamania
Bremerton	Hood River	Steilacoom
Bureau of Mines	Idaho County	Sumas
Burley	Jim Creek	Surprise V.
Canby	Kittitas	Tanner
Cascade Locks	Lakeview	Tillamook
Centralia	Lewis Co. PUD	Umpqua
Cheney	Mason #1	United
Clallam	Mason #3	Vera
Columbia River	McCleary	Wahkiakum
Consolidated Irr Dist	Midstate	Whatcom
DOE-Midway/Richland	Milton	Yakama
Drain	Milton-Freewater	
Eatonville	Monmouth	

Table 2-2
Partial Service Customers

Central Lincoln	Klickitat	Springfield
Cowlitz	McMinnville	Wells
Flathead		

Table 2-3
Slice/Block Customers

Benton PUD	Fall River	Pend Oreille
Blachly-Lane	Franklin	Raft River
Central Electric	Grays Harbor	Salmon River
Clatskanie	IdahoFalls	Seattle
Clearwater	Lane Electric	Snohomish
Consumers Power	Lost River	Umatilla
Coos-Curry	Northern Lights	West OR
Douglas Electric	Okanogan Coop	
EWEB	Okanogan PUD	

Table 2-4
Block Customers

Clark	Grant	Tacoma
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2.3 INVESTOR-OWNED UTILITIES SALES FORECAST

In this Study, the IOU sales are forecasted to be 382 aMW for FY 2003 - 2006 (*see SN-03 Study, SN-03-E-BPA-01, Chapter 2*). The load forecast is based on signed power sales contracts with the IOUs. The power sales are for equal hourly amounts over the contract period. The IOUs purchase BPA power for their residential and small farm customers at the Residential Load (RL) rate or the PF Subscription Exchange rate.

All six regional IOUs accepted the Residential Exchange Program settlement in the fall of 2000. In the settlement, BPA provided 1,000 aMW in power sales and 900 aMW in monetary benefits to be passed through to the IOU's residential and small farm customers. The original 1,000 aMW amount was modified by two load reduction contracts that resulted in 382 aMW of power sales to the IOUs for FY 2003-2006. Of the 382 aMW in sales contracts, BPA bought back 124 aMW each year for FY 2003-2006.

BPA will offer to meet the IOUs' net firm power load requirements for IOUs without sales contracts as calculated under section 5(b)(1) and subject to section 9(c) of the Pacific Northwest Electric Power Planning and Conservation Act (Northwest Power Act), in full, at the New Resource Power rate schedule.

2.4 DIRECT SERVICE INDUSTRY SALES FORECAST

For purposes of this Study, DSI sales are forecasted to be 35 aMW in FY 2003 and 350 aMW for FY 2004-2006 (*see SN-03 Study, SN-03-E-BPA-01, Chapter 2*). The DSI sale forecast is being

reviewed and BPA expects to reduce the forecast in the final study. BPA assumed that sales to DSIs are made under an Industrial Firm Power Targeted Adjustment Charge.

2.5 HYDROREGULATION STUDY INTRODUCTION

BPA uses a hydroregulation model (HydroSim) to estimate the energy production that can be expected from the PNW hydrosystem when operating in a coordinated fashion while meeting power and nonpower requirements for each hydroelectric project and the system as a whole.

A major feature of these studies is the operations described by the National Marine Fisheries Service (NMFS) and the United States Fish and Wildlife Service (USFWS) in their Biological Opinion published in the year 2000 and operations described in the Northwest Power Planning Council's Fish and Wildlife Program. Each study specifies hydroelectric project operations to provide for such things as seasonal flow augmentation, minimum flow levels for fish, spill for juvenile fish passage, reservoir drawdown limitations, and turbine operation efficiency requirements.

The results of the hydro studies are used to provide an estimate of Federal energy generated on the hydrosystem for use in the Loads and Resources Study and RiskMod.

2.6 METHODS

2.6.1 Data Collection

The projected amounts of energy that can be produced by the hydrosystem are affected by the data and assumptions used in the study. Therefore, the hydro studies must use the best available data.

2.6.1.1 Hydroplant Operating Characteristics and Requirements. Hydroplant operating characteristics are necessary to determine the expected energy production from a specific project, given specific operating conditions. These are physical characteristics that establish the limits within which each project must be operated. This project-specific data was taken from Pacific Northwest Coordination Agreement (PNCA) data submittals made by the regional utilities and government agencies involved in operating hydro projects.

Hydroplant operating requirements are used to regulate plant operations using the hydro regulation simulator (HydroSim). As taken from PNCA data submittals, these operating requirements include, but are not limited to storage content limits determined by rules curves, maximum project draft rates determined by each project, and flow and spill objectives determined by the 2000 BiOp. Deviations from the PNCA data submittals occur in the FY 2003 analysis when specific operating decisions have been made in order to implement the BiOp. Data submittals made in 2003 have not yet been completed and are not reflected in these studies.

2.6.2 Systemwide Modeling Elements

For the purpose of this SN CRAC proposal, BPA made a hydroregulation study for each year of the period (2003, 2004, 2005, and 2006). A variety of data are used to characterize hydroregulation studies. Streamflows, firm loads, firm resources, markets for secondary energy, and project-by-project operating requirements all affect the amount and timing of energy available from the hydrosystem. These variables were changed in each year's study as necessary to reflect current knowledge of each parameter.

2.6.2.1 Modified Streamflows. Modified streamflows are used to estimate power generation under historical streamflow conditions. The AER and operational hydroregulation studies used were developed with the use of the 1990 level modified streamflows. Modified streamflows are the historic streamflow adjusted to a common level of development by correcting for the effects of irrigation and consumptive diversion demand, return flow, and changes in contents of upstream reservoirs and lakes. These modified streamflows were developed by the A. G. Crook Company, under contract with BPA, for the Columbia River Water Management Group's Depletions Task Force.¹ Irrigation depletions are included for the 1990 level of development.

These modified streamflows are adjusted to include estimates of irrigation pumping at Grand Coulee as expected for the rate period. This irrigation pumping provides water to the Columbia Basin Project. The pumping schedule is provided by the Reclamation in its 2000 PNCA preliminary data submittal. Adjustments are also made to include the return flows downstream of Grand Coulee resulting from this updated pumping schedule.

¹ The process by which the modified streamflows were created by the A. G. Crook Company is beyond the scope of this document. For further information on this process, please refer to documents published by the Columbia River Water Management Group.

Due to projected below normal runoff for the FY 2003 water year (October through September), the 50-year modified flow set was weighted to reflect the latest projections for the 2003 January through July runoff. The latest Northwest River Forecast Center volume forecast, the February early bird of 74.8 million acre-feet (maf), was used to base the weightings at the time. The result was a weighted 50-year set of years with a weighted mean of 75 maf. In addition to having a weighted mean of 75 maf, the set was also truncated above 108.5 maf (all years above 108 maf were weighted zero) to reflect the less than 1 percent probably of occurring cutoff. The resulting set of years with weights greater than zero contained a subset of 30 years out of the original 50-year set. For years 2004-2006, all 50 years, equally weighted, were used.

2.6.2.2 Differences in Hydroregulation Studies for FY 2003 and FY 2004-2006. There are two modes for hydroregulation studies: refill and continuous. They serve a similar purpose in that they are both used to estimate the energy production of the hydrosystem. However, each mode is different in how they treat initial reservoir conditions. Continuous hydro studies operate from one water year to another, using the previous water year's final reservoir elevations as the initial reservoir elevation for the next water year. Refill studies operate each water year independent of all other water years, using the same initial reservoir elevations for each water year. Continuous studies are typically used when there is little or no information on initial reservoir elevations such as when considering operations for a future year.

Since the initial conditions are known, a refill study was used for the FY 2003 analysis. For the FY 2004-2006 studies, each was run in the continuous mode. A significant difference was noted in the Columbia River Treaty reservoirs' storage levels when comparing the end of the FY 2003

study with the storage levels those reservoirs started at in the FY 2004 study. In order to transition smoothly from the FY 2003 study to the FY 2004 study, an energy adjustment was made to the federal system energy production in the FY 2004 study results. These energy adjustments are found in Subsection 2.6.3.1.1, Table 2-9.

There are other differences in the study done for FY 2003 and those done for FY 2004-2006. Those differences are related to the fact that since we are already operating within the FY 2003 year, more is known about the range of possible streamflows that need to be considered and their effects on such things as flood control draft requirements and fish operations requirements that vary with the amount of spring runoff expected. Also, ongoing winter operations, such as Chum and Vernita Bar, are modeled consistent with current operations. Non-Treaty storage operation was modeled in the hydroregulation studies in a manner that makes the most economic use in January-March and September. The 2000 BiOp's calls for Non-Treaty Storage to be operated to provide flow augmentation water by storing in May-June and releasing in July-August is modeled to the extent allowable by the current flow shaping agreement with Canada.

The 50-year hydro study monthly reservoir operations were run through the Hourly Operating and Scheduling Simulator (HOSS) model to estimate the monthly ratios of HLH hydro generation. The operational hydro study results and HOSS HLH hydro generation ratios are input into RiskMod, which determines the Federal system monthly HLH and LLH surpluses and deficits. HLH and LLH energy surpluses and deficits estimated in RiskMod include transmission losses of 2.82 percent, which are applied to all hydro and nuclear generation. Also included in RiskMod is the Federal system Augmentation Purchased energy described above.

The surplus energy estimated in RiskMod is used to project surplus power sales revenues and power purchase expenses. *See* Risk Analysis SN-03 Study, SN-03-E-BPA-01, Chapter 6. These HLH/LLH ratios are included in Subsection 2.6.2.2.1, Tables 2-5 and 2-6.

2.6.2.2.1 FEDERAL SYSTEM HLH GENERATION RATIOS FOR 50-WATER YEAR

Table 2-5
FY 2002-2003
Federal Hydro HLH Generation Ratios
2003 Safety Net CRAC Initial Proposal

Water Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1929	1.225	1.215	1.161	1.125	1.134	1.175	1.205	1.232	1.222
1930	1.226	1.187	1.170	1.131	1.122	1.253	1.232	1.232	1.210
1931	1.224	1.216	1.174	1.130	1.124	1.281	1.254	1.242	1.229
1932	1.218	1.208	1.139	1.123	1.142	1.169	1.218	1.229	1.213
1933	1.235	1.191	1.153	1.191	1.162	1.084	1.136	1.191	1.231
1934	1.133	1.197	1.165	1.067	1.093	1.252	1.248	1.251	1.222
1935	1.243	1.215	1.182	1.156	1.173	1.196	1.239	1.232	1.222
1936	1.214	1.216	1.150	1.104	1.182	1.238	1.238	1.235	1.214
1937	1.226	1.212	1.182	1.128	1.126	1.214	1.218	1.239	1.224
1938	1.234	1.193	1.168	1.161	1.093	1.176	1.227	1.209	1.225
1939	1.223	1.209	1.155	1.126	1.189	1.263	1.224	1.234	1.213
1940	1.225	1.196	1.146	1.153	1.189	1.251	1.234	1.231	1.217
1941	1.223	1.201	1.166	1.145	1.191	1.248	1.221	1.238	1.225
1942	1.212	1.189	1.173	1.156	1.225	1.220	1.206	1.216	1.207
1943	1.219	1.161	1.135	1.115	1.092	1.167	1.186	1.209	1.202
1944	1.227	1.212	1.183	1.125	1.124	1.235	1.219	1.243	1.229
1945	1.223	1.200	1.169	1.170	1.164	1.216	1.213	1.220	1.173
1946	1.221	1.178	1.170	1.150	1.091	1.177	1.204	1.215	1.216
1947	1.211	1.180	1.194	1.185	1.161	1.215	1.221	1.228	1.215
1948	1.216	1.179	1.176	1.150	1.084	1.009	1.160	1.199	1.227
1949	1.226	1.191	1.115	1.138	1.139	1.222	1.209	1.223	1.178
1950	1.211	1.210	1.145	1.125	1.124	1.064	1.177	1.224	1.219
1951	1.221	1.156	1.123	1.091	1.072	1.179	1.203	1.203	1.220
1952	1.217	1.189	1.191	1.123	1.082	1.206	1.218	1.213	1.200
1953	1.191	1.214	1.150	1.186	1.167	1.137	1.185	1.209	1.211
1954	1.208	1.206	1.161	1.154	1.095	1.041	1.166	1.190	1.251
1955	1.224	1.214	1.185	1.156	1.130	1.104	1.097	1.198	1.216
1956	1.213	1.190	1.126	1.081	1.053	1.079	1.196	1.214	1.217
1957	1.220	1.191	1.145	1.159	1.129	1.092	1.220	1.225	1.206
1958	1.214	1.208	1.161	1.174	1.143	1.173	1.214	1.228	1.210
1959	1.214	1.206	1.189	1.156	1.135	1.098	1.181	1.206	1.255
1960	1.213	1.197	1.185	1.059	1.171	1.189	1.218	1.228	1.217
1961	1.223	1.212	1.171	1.177	1.096	1.040	1.238	1.245	1.202
1962	1.218	1.186	1.169	1.125	1.174	1.192	1.222	1.224	1.208
1963	1.218	1.175	1.181	1.212	1.204	1.207	1.212	1.226	1.218
1964	1.215	1.204	1.162	1.160	1.123	1.077	1.110	1.209	1.225
1965	1.185	1.140	1.126	1.138	1.117	1.155	1.218	1.229	1.213
1966	1.208	1.198	1.170	1.184	1.205	1.237	1.228	1.212	1.209
1967	1.198	1.212	1.180	1.199	1.128	1.068	1.182	1.204	1.220
1968	1.215	1.204	1.188	1.194	1.196	1.178	1.201	1.201	1.245
1969	1.216	1.204	1.172	1.105	1.082	1.190	1.220	1.231	1.210
1970	1.188	1.181	1.162	1.203	1.173	1.181	1.200	1.207	1.180
1971	1.175	1.164	1.151	1.104	1.054	1.112	1.177	1.208	1.210
1972	1.192	1.199	1.053	1.116	1.069	1.033	1.174	1.179	1.218
1973	1.209	1.205	1.173	1.149	1.162	1.254	1.221	1.233	1.192
1974	1.163	1.058	1.101	1.069	1.058	1.052	1.108	1.190	1.226
1975	1.202	1.208	1.180	1.167	1.114	1.128	1.150	1.220	1.211
1976	1.222	1.197	1.157	1.117	1.078	1.176	1.160	1.154	1.249
1977	1.225	1.214	1.197	1.130	1.129	1.277	1.255	1.247	1.225
1978	1.208	1.188	1.190	1.160	1.123	1.176	1.201	1.239	1.252

Table 2-6
FY 2004 Through 2006
Federal Hydro HLH Generation Ratios
2003 Safety Net CRAC Initial Proposal

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1929	1.235	1.202	1.241	1.204	1.156	1.179	1.171	1.173	1.193	1.187	1.185	1.233
1930	1.238	1.218	1.244	1.205	1.139	1.173	1.185	1.178	1.207	1.203	1.190	1.237
1931	1.233	1.218	1.261	1.173	1.131	1.169	1.190	1.213	1.216	1.216	1.189	1.222
1932	1.238	1.217	1.237	1.185	1.143	1.213	1.112	1.172	1.211	1.222	1.195	1.225
1933	1.232	1.208	1.248	1.145	1.154	1.215	1.141	1.182	1.108	1.040	1.196	1.237
1934	1.234	1.221	1.217	1.055	1.085	1.170	1.047	1.033	1.195	1.191	1.170	1.218
1935	1.237	1.197	1.236	1.158	1.171	1.243	1.134	1.186	1.209	1.196	1.207	1.234
1936	1.237	1.209	1.252	1.194	1.149	1.188	1.152	1.188	1.192	1.229	1.215	1.235
1937	1.236	1.211	1.248	1.199	1.130	1.145	1.120	1.179	1.192	1.192	1.188	1.232
1938	1.235	1.217	1.247	1.202	1.158	1.204	1.179	1.103	1.217	1.212	1.190	1.234
1939	1.229	1.202	1.234	1.207	1.134	1.237	1.194	1.214	1.203	1.216	1.186	1.233
1940	1.235	1.215	1.241	1.215	1.142	1.235	1.184	1.189	1.189	1.201	1.202	1.233
1941	1.232	1.207	1.239	1.206	1.153	1.237	1.206	1.179	1.193	1.181	1.194	1.234
1942	1.223	1.208	1.251	1.206	1.167	1.162	1.203	1.211	1.207	1.191	1.187	1.227
1943	1.231	1.197	1.231	1.204	1.156	1.211	1.115	1.111	1.211	1.207	1.184	1.227
1944	1.232	1.201	1.232	1.201	1.162	1.161	1.164	1.185	1.197	1.176	1.202	1.225
1945	1.235	1.216	1.238	1.188	1.130	1.168	1.195	1.207	1.192	1.225	1.196	1.217
1946	1.231	1.198	1.251	1.193	1.161	1.211	1.158	1.065	1.204	1.215	1.187	1.232
1947	1.220	1.198	1.234	1.136	1.140	1.221	1.176	1.167	1.216	1.223	1.208	1.226
1948	1.223	1.223	1.250	1.141	1.154	1.220	1.140	1.059	1.012	1.099	1.202	1.232
1949	1.225	1.202	1.235	1.204	1.159	1.164	1.135	1.190	1.212	1.178	1.178	1.216
1950	1.231	1.188	1.257	1.184	1.157	1.198	1.124	1.149	1.040	1.130	1.202	1.230
1951	1.230	1.210	1.235	1.106	1.134	1.186	1.089	1.050	1.205	1.165	1.220	1.227
1952	1.230	1.220	1.244	1.142	1.176	1.232	1.129	1.060	1.217	1.213	1.200	1.228
1953	1.232	1.200	1.248	1.184	1.090	1.212	1.189	1.180	1.197	1.187	1.206	1.227
1954	1.228	1.210	1.239	1.218	1.068	1.235	1.168	1.098	1.035	1.118	1.197	1.228
1955	1.234	1.219	1.254	1.230	1.178	1.190	1.203	1.186	1.170	1.024	1.142	1.247
1956	1.230	1.219	1.221	1.104	1.147	1.180	1.101	1.018	1.086	1.166	1.187	1.227
1957	1.225	1.197	1.238	1.230	1.107	1.202	1.111	1.077	1.173	1.217	1.195	1.231
1958	1.230	1.197	1.234	1.221	1.084	1.227	1.186	1.141	1.206	1.201	1.199	1.231
1959	1.230	1.215	1.241	1.114	1.145	1.219	1.134	1.153	1.096	1.179	1.193	1.229
1960	1.210	1.213	1.250	1.132	1.176	1.236	1.106	1.203	1.209	1.204	1.195	1.248
1961	1.235	1.208	1.233	1.187	1.095	1.226	1.167	1.103	1.035	1.227	1.191	1.231
1962	1.232	1.187	1.232	1.196	1.151	1.232	1.114	1.199	1.179	1.203	1.209	1.230
1963	1.228	1.215	1.253	1.193	1.172	1.241	1.217	1.197	1.216	1.201	1.196	1.230
1964	1.231	1.197	1.236	1.232	1.105	1.201	1.175	1.189	1.095	1.082	1.198	1.222
1965	1.233	1.216	1.217	1.100	1.112	1.190	1.154	1.113	1.187	1.212	1.193	1.218
1966	1.229	1.216	1.246	1.222	1.182	1.231	1.153	1.212	1.195	1.189	1.193	1.224
1967	1.235	1.199	1.236	1.135	1.148	1.229	1.148	1.157	1.110	1.075	1.185	1.236
1968	1.227	1.207	1.246	1.196	1.142	1.237	1.198	1.180	1.206	1.197	1.176	1.226
1969	1.230	1.225	1.255	1.123	1.161	1.213	1.144	1.048	1.176	1.205	1.174	1.238
1970	1.233	1.199	1.234	1.204	1.119	1.241	1.188	1.205	1.198	1.217	1.221	1.232
1971	1.233	1.180	1.237	1.169	1.098	1.204	1.091	1.017	1.141	1.165	1.205	1.221
1972	1.232	1.202	1.236	1.169	1.130	1.055	1.124	1.030	1.073	1.041	1.159	1.220
1973	1.227	1.194	1.234	1.206	1.186	1.242	1.179	1.183	1.207	1.213	1.145	1.220
1974	1.234	1.205	1.243	1.061	1.084	1.102	1.104	1.022	1.019	1.039	1.215	1.221
1975	1.233	1.197	1.232	1.221	1.135	1.197	1.173	1.131	1.171	1.092	1.188	1.226
1976	1.233	1.224	1.230	1.117	1.140	1.212	1.099	1.051	1.212	1.106	1.201	1.235
1977	1.239	1.198	1.239	1.200	1.161	1.144	1.169	1.194	1.209	1.185	1.077	1.201
1978	1.235	1.210	1.217	1.210	1.140	1.208	1.148	1.141	1.180	1.225	1.195	1.208

2.6.3 Hydro Output

2.6.3.1 Energy Results from the 50-year Operational Studies. Generation from the Hydroregulation study is used as input to the Loads and Resources Study and to RiskMod. Federal hydro generation for FY 2003 is estimated using a 50-water year refill hydro regulation study and is shown in Table 2-7. FY 2004 Federal hydro generation uses a continuous hydro regulation study and is shown in Table 2-8. The FY 2004 Federal hydro generation reductions are presented in Table 2-9. These reductions reflect lower starting reservoir elevations beginning October 1, 2003, due to lower than expected water conditions. Table 2-10 shows the adjusted Federal hydro generation for FY 2004. Federal generation estimates for FY 2005 and 2006 using a continuous hydro regulation are shown in Tables 2-11 and 2-12.

**2.6.3.1.1 FEDERAL SYSTEM 50-WATER YEAR
HYDRO GENERATION TABLES**

Table 2-7
FY 2002-2003
Federal Hydro Generation
Estimated From Refill Study Reflecting 1/1/2003 Reservoir Elevations
2003 Safety Net CRAC Initial Proposal

Energy in Average Megawatts

Water Year	WY Wt.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	9-Month Avg.
1929	0.102	7,021	6,333	6,501	5,823	6,652	8,679	7,667	8,192	5,854	6,969
1930	0.109	7,194	6,954	6,231	6,296	7,581	8,273	7,717	7,711	5,614	7,063
1931	0.065	7,049	6,449	6,208	6,283	6,266	8,090	7,115	7,782	6,172	6,824
1932	0.002	6,865	6,365	9,124	12,826	12,839	12,210	10,148	9,244	5,621	9,471
1933	0.001	9,714	8,776	7,888	8,331	10,768	14,906	13,038	10,232	6,695	10,039
1934	0.000	12,708	10,591	11,078	14,261	13,003	6,837	7,038	7,582	5,767	9,874
1935	0.018	9,126	10,469	6,790	8,544	9,983	9,871	9,678	8,151	5,851	8,718
1936	0.022	6,711	6,318	6,868	8,079	12,239	9,855	8,028	8,422	5,694	8,024
1937	0.105	7,164	6,396	6,185	6,003	7,249	8,624	6,715	8,024	5,927	6,921
1938	0.001	9,888	9,965	8,946	10,155	13,361	10,497	9,631	7,906	6,187	9,615
1939	0.073	6,866	6,375	7,237	8,101	10,777	8,167	8,035	8,511	5,717	7,754
1940	0.069	6,895	6,830	8,176	9,036	10,051	8,892	7,460	7,391	5,745	7,831
1941	0.108	6,997	6,565	6,402	6,901	8,030	7,740	7,321	7,708	6,489	7,128
1942	0.018	7,225	6,831	6,464	7,246	9,335	12,103	10,896	8,780	5,808	8,299
1943	0.000	8,690	10,543	8,763	13,033	13,307	12,232	11,271	9,007	5,542	10,265
1944	0.036	7,055	6,378	5,983	5,758	6,080	7,667	7,121	7,728	6,547	6,702
1945	0.055	6,746	6,498	6,431	6,150	11,166	11,552	8,069	7,485	5,468	7,729
1946	0.000	8,586	9,453	9,050	10,616	13,812	11,693	11,046	9,459	6,066	9,976
1947	0.002	8,831	10,626	10,528	9,796	12,134	10,690	10,366	8,803	6,017	9,755
1948	0.000	8,770	9,704	7,580	9,420	14,570	16,462	12,491	10,269	6,779	10,672
1949	0.004	7,289	9,190	9,502	11,091	12,900	10,513	7,613	7,195	5,157	8,939
1950	0.000	6,910	10,566	11,555	12,091	12,415	15,234	11,589	9,749	6,215	10,703
1951	0.000	10,045	11,288	12,144	12,736	14,258	10,582	11,124	9,660	6,649	10,943
1952	0.000	8,762	10,615	7,929	12,289	14,867	11,215	9,633	8,406	5,692	9,934
1953	0.002	7,291	10,001	8,130	6,983	11,009	13,894	11,832	9,044	5,994	9,353
1954	0.000	6,778	10,612	9,678	9,885	13,010	14,555	12,099	10,849	9,082	10,728
1955	0.009	6,774	6,321	5,754	6,708	9,875	14,782	13,579	9,438	6,151	8,820
1956	0.000	10,969	10,614	11,583	13,307	15,390	15,641	11,222	9,912	5,952	11,621
1957	0.000	6,856	7,194	8,567	11,101	13,957	15,072	8,748	8,364	5,824	9,520
1958	0.001	7,078	10,444	7,871	9,860	13,346	12,460	8,235	8,551	5,865	9,301
1959	0.000	10,307	10,506	10,045	10,065	11,714	13,474	11,734	9,937	8,617	10,711
1960	0.004	7,271	8,536	8,389	13,343	10,417	11,228	10,340	7,626	5,972	9,236
1961	0.000	7,323	10,539	10,171	9,230	12,609	15,509	9,056	8,744	5,572	9,861
1962	0.009	6,606	7,269	6,705	12,321	10,851	10,346	10,286	8,390	5,647	8,713
1963	0.013	6,675	8,942	7,041	8,236	11,137	11,643	10,175	8,706	6,187	8,749
1964	0.001	6,590	6,757	6,922	9,119	11,450	14,584	13,284	9,662	6,731	9,455
1965	0.000	11,219	12,185	11,396	12,085	13,621	12,279	9,830	9,086	6,138	10,871
1966	0.023	6,828	7,282	6,925	10,373	10,042	9,082	10,096	9,258	5,745	8,404
1967	0.000	7,271	10,530	9,513	7,878	10,437	15,305	11,150	9,875	6,106	9,785
1968	0.011	7,073	10,387	8,454	6,866	9,588	11,808	10,843	9,862	7,404	9,143
1969	0.000	10,461	10,654	10,413	12,906	15,158	11,637	10,395	8,726	5,845	10,688
1970	0.009	7,827	8,762	7,379	7,060	11,435	12,193	7,646	7,577	5,471	8,372
1971	0.000	8,859	11,659	11,659	12,230	15,456	14,846	12,403	9,940	6,186	11,471
1972	0.000	7,991	11,737	13,995	12,109	15,278	15,732	12,046	10,757	6,688	11,815
1973	0.111	6,995	6,581	6,407	5,514	8,298	7,859	7,377	7,907	6,153	7,010
1974	0.000	13,108	13,339	12,131	13,245	14,941	15,623	14,134	10,458	6,672	12,628
1975	0.000	6,837	10,207	9,692	8,372	12,219	13,010	12,971	8,103	6,000	9,712
1976	0.000	10,982	10,614	9,726	12,304	14,492	10,607	12,537	11,930	9,646	11,426
1977	0.016	6,922	6,501	5,837	5,150	5,742	6,892	6,771	7,538	6,406	6,417
1978	0.003	7,789	10,269	8,846	10,164	11,710	9,864	10,668	7,742	7,765	9,424
Weighted Average		7,056	6,784	6,633	6,845	8,484	8,818	7,816	7,984	5,969	7,377

Table 2-8
FY 2003-2004
Federal Hydro Generation
Estimated From Continuous Hydro Regulation
No Hydro Generation Adjustments
2003 Safety Net CRAC Initial Proposal

Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	7,120	6,853	7,324	7,731	4,993	5,897	6,016	8,079	10,175	7,987	7,489	5,711	7,115
1930	6,206	7,527	7,332	5,779	6,556	6,221	6,808	7,130	9,427	8,601	7,379	5,601	7,047
1931	5,919	7,386	7,533	5,879	5,282	5,905	6,436	7,821	9,341	8,202	7,940	5,519	6,930
1932	6,062	7,216	6,320	5,606	5,102	7,843	12,048	13,264	12,901	10,551	7,508	5,513	8,328
1933	7,152	6,869	7,078	12,132	10,411	7,250	8,697	10,662	15,647	13,402	8,883	5,953	9,511
1934	8,728	7,605	13,232	15,883	13,418	10,961	13,853	13,596	7,662	8,510	10,015	6,580	10,837
1935	6,280	6,813	7,106	11,304	11,337	7,627	8,421	9,753	10,645	10,517	6,847	5,656	8,525
1936	6,699	7,390	7,310	7,687	5,206	6,364	8,094	13,739	11,085	8,672	8,401	5,652	8,025
1937	6,565	7,484	7,196	6,831	5,189	5,781	5,756	7,184	9,061	7,697	7,849	5,527	6,843
1938	6,600	7,116	6,934	12,784	7,627	8,748	10,259	13,731	11,493	10,044	7,731	5,665	9,061
1939	7,133	7,122	7,144	9,727	6,346	7,192	8,469	11,124	8,720	8,662	7,526	6,069	7,936
1940	7,153	7,239	7,235	8,538	6,267	9,526	9,562	10,118	9,106	7,856	8,155	5,578	8,028
1941	7,020	6,951	7,449	8,700	5,399	5,856	7,754	8,751	9,122	7,285	7,528	5,618	7,286
1942	6,500	6,820	8,919	13,073	6,529	5,542	8,057	9,990	12,591	11,203	7,472	5,644	8,528
1943	6,962	7,227	6,802	11,887	9,272	10,293	13,205	13,674	12,901	11,408	9,317	5,930	9,906
1944	7,244	6,917	7,237	7,833	5,085	5,315	6,213	8,278	8,490	7,170	9,104	6,126	7,084
1945	6,239	6,994	7,022	5,684	5,628	5,704	6,064	10,877	12,001	9,222	7,091	5,405	7,328
1946	6,390	7,454	7,034	9,832	8,755	10,570	10,970	14,353	12,476	10,783	7,797	5,582	9,333
1947	7,291	7,323	8,492	13,915	11,072	10,292	9,757	12,892	12,897	10,164	9,316	6,326	9,978
1948	9,999	6,895	8,714	13,703	7,899	9,735	9,706	15,875	16,536	13,109	8,490	6,077	10,562
1949	7,668	7,260	7,073	9,916	6,629	11,952	11,195	13,601	11,416	8,246	10,103	7,285	9,362
1950	6,547	7,175	6,972	11,240	10,080	12,828	11,955	12,848	15,374	11,969	6,702	5,330	9,918
1951	8,596	7,615	11,716	14,898	14,492	11,099	12,030	14,217	10,743	11,749	9,670	6,659	11,124
1952	9,303	6,994	8,293	13,460	10,396	8,170	12,383	15,465	12,000	10,104	9,723	6,938	10,269
1953	6,727	7,193	7,389	7,402	11,831	8,629	7,683	11,421	14,208	12,044	8,644	5,741	9,076
1954	7,640	7,330	6,771	11,935	11,906	8,946	10,416	13,534	14,356	12,955	9,337	6,380	10,126
1955	8,400	6,820	7,479	9,558	5,532	5,594	9,018	9,539	15,915	14,116	10,847	9,621	9,370
1956	8,245	6,804	11,312	15,337	11,606	11,267	13,627	15,349	15,922	12,220	9,886	6,238	11,485
1957	7,801	7,222	6,875	10,977	6,686	9,284	11,543	15,925	15,335	8,985	9,686	6,307	9,719
1958	7,114	7,271	6,959	10,056	9,088	9,970	9,512	13,538	14,365	8,438	7,781	5,721	9,151
1959	7,446	6,835	8,578	14,863	13,037	8,634	10,062	12,095	14,877	11,439	7,910	5,842	10,135
1960	10,910	8,247	10,414	13,327	8,655	8,907	13,303	10,958	12,160	10,433	9,345	9,452	10,509
1961	7,509	6,897	7,247	10,401	11,143	10,398	9,316	13,108	15,498	9,225	8,468	6,006	9,602
1962	7,303	7,096	6,888	9,773	8,001	5,943	12,138	11,301	11,319	10,718	8,320	5,485	8,690
1963	8,165	6,991	8,551	12,627	10,140	6,285	8,506	11,312	12,756	10,679	9,134	5,777	9,244
1964	7,130	7,241	6,943	9,620	8,290	6,201	8,578	11,125	15,504	13,841	9,051	6,455	9,165
1965	8,527	7,320	10,219	15,997	14,391	11,089	11,257	13,964	12,894	9,985	9,649	7,269	11,047
1966	7,975	7,319	7,452	11,777	9,055	6,600	10,773	11,146	10,623	10,485	9,377	6,265	9,071
1967	7,026	7,239	6,808	12,129	12,816	8,693	8,469	10,402	15,482	11,836	8,706	5,629	9,603
1968	7,728	7,181	7,190	12,190	11,467	9,233	6,991	9,070	13,556	10,670	9,462	6,562	9,275
1969	8,672	7,040	8,998	14,904	13,355	9,398	12,593	15,518	13,407	10,682	9,756	7,782	11,009
1970	7,626	7,170	7,046	9,330	10,843	7,837	8,163	11,149	12,386	8,291	8,022	5,836	8,642
1971	6,862	7,136	7,241	13,578	15,000	10,677	11,496	15,480	15,238	12,777	7,935	5,425	10,737
1972	7,540	7,363	7,282	13,210	14,368	14,200	12,474	15,322	15,282	13,761	10,362	6,766	11,494
1973	7,717	7,351	7,088	12,525	5,882	6,125	7,073	8,061	9,533	8,078	10,759	7,227	8,118
1974	5,944	6,780	9,075	16,594	14,700	12,846	13,663	14,536	15,882	14,713	7,381	5,188	11,442
1975	6,963	6,973	7,054	11,109	10,544	9,799	9,230	12,373	13,544	13,472	10,607	7,304	9,914
1976	8,283	7,296	12,605	14,977	12,133	10,818	12,413	14,825	11,289	12,304	8,609	6,464	11,001
1977	7,949	6,889	7,443	7,875	5,212	5,115	5,946	7,892	7,924	6,914	11,953	10,574	7,640
1978	6,054	7,052	7,088	9,512	7,971	10,323	9,911	11,890	10,474	11,054	7,224	5,188	8,645
Average	7,413	7,166	7,909	11,112	9,253	8,590	9,757	11,957	12,431	10,465	8,725	6,289	9,255

Table 2-9
FY 2003-2004
Federal Hydro Generation Adjustments For FY 2004
Reductions Due To Lower Starting Reservoir Elevations 10/1/2003

2003 Safety Net CRAC Initial Proposal

Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1930	-194	-194	-194	-194	-194	-194	-194	-194	-194	-194	0	0	-161
1931	-132	-132	-132	-132	-132	-132	-132	-132	-132	-132	0	0	-110
1932	429	429	429	429	429	429	429	429	429	429	0	0	358
1933	-241	-241	-241	-241	-241	-241	-241	-241	-241	-241	0	0	-201
1934	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1935	-166	-166	-166	-166	-166	-166	-166	-166	-166	-166	0	0	-139
1936	-237	-237	-237	-237	-237	-237	-237	-237	-237	-237	0	0	-197
1937	-222	-222	-222	-222	-222	-222	-222	-222	-222	-222	0	0	-185
1938	22	22	22	22	22	22	22	22	22	22	0	0	18
1939	-245	-245	-245	-245	-245	-245	-245	-245	-245	-245	0	0	-204
1940	-221	-221	-221	-221	-221	-221	-221	-221	-221	-221	0	0	-184
1941	-166	-166	-166	-166	-166	-166	-166	-166	-166	-166	0	0	-138
1942	72	72	72	72	72	72	72	72	72	72	0	0	60
1943	-252	-252	-252	-252	-252	-252	-252	-252	-252	-252	0	0	-210
1944	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1945	264	264	264	264	264	264	264	264	264	264	0	0	220
1946	47	47	47	47	47	47	47	47	47	47	0	0	39
1947	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1948	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1949	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1950	-186	-186	-186	-186	-186	-186	-186	-186	-186	-186	0	0	-155
1951	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1952	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1953	-238	-238	-238	-238	-238	-238	-238	-238	-238	-238	0	0	-198
1954	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1955	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1956	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1957	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1958	-226	-226	-226	-226	-226	-226	-226	-226	-226	-226	0	0	-188
1959	-251	-251	-251	-251	-251	-251	-251	-251	-251	-251	0	0	-209
1960	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1961	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1962	-241	-241	-241	-241	-241	-241	-241	-241	-241	-241	0	0	-201
1963	-266	-266	-266	-266	-266	-266	-266	-266	-266	-266	0	0	-221
1964	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1965	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1966	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1967	-257	-257	-257	-257	-257	-257	-257	-257	-257	-257	0	0	-214
1968	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1969	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1970	-260	-260	-260	-260	-260	-260	-260	-260	-260	-260	0	0	-217
1971	-249	-249	-249	-249	-249	-249	-249	-249	-249	-249	0	0	-208
1972	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1973	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1974	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	0	0	-42
1975	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1976	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1977	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	0	0	-225
1978	450	450	450	450	450	450	450	450	450	450	0	0	375
Average	-190	-190	-190	-190	-190	-190	-190	-190	-190	-190	0	0	-158

Table 2-10
FY 2003-2004
Adjusted Federal Hydro Generation
Reduced For Lower Starting Reservoir Elevations 10/1/2003

2003 Safety Net CRAC Initial Proposal

Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	6,850	6,582	7,054	7,460	4,723	5,626	5,746	7,809	9,905	7,717	7,489	5,711	6,889
1930	6,012	7,333	7,138	5,586	6,362	6,027	6,614	6,937	9,234	8,408	7,379	5,601	6,886
1931	5,787	7,254	7,401	5,747	5,150	5,773	6,304	7,689	9,209	8,070	7,940	5,519	6,820
1932	6,491	7,645	6,749	6,035	5,531	8,272	12,477	13,693	13,330	10,980	7,508	5,513	8,685
1933	6,910	6,628	6,837	11,891	10,170	7,009	8,456	10,420	15,405	13,161	8,883	5,953	9,310
1934	8,457	7,335	12,962	15,613	13,148	10,691	13,583	13,326	7,392	8,239	10,015	6,580	10,612
1935	6,113	6,646	6,939	11,138	11,171	7,460	8,254	9,587	10,478	10,351	6,847	5,656	8,387
1936	6,462	7,153	7,073	7,450	4,969	6,128	7,857	13,502	10,848	8,435	8,401	5,652	7,828
1937	6,343	7,262	6,974	6,609	4,967	5,558	5,534	6,961	8,839	7,475	7,849	5,527	6,658
1938	6,622	7,138	6,956	12,806	7,650	8,770	10,281	13,753	11,515	10,066	7,731	5,665	9,079
1939	6,888	6,877	6,899	9,482	6,101	6,947	8,224	10,879	8,475	8,417	7,526	6,069	7,732
1940	6,932	7,018	7,014	8,317	6,046	9,305	9,341	9,897	8,885	7,635	8,155	5,578	7,844
1941	6,855	6,786	7,284	8,535	5,233	5,690	7,589	8,586	8,956	7,119	7,528	5,618	7,148
1942	6,572	6,892	8,991	13,145	6,601	5,613	8,129	10,062	12,662	11,275	7,472	5,644	8,588
1943	6,710	6,975	6,550	11,634	9,020	10,041	12,952	13,421	12,649	11,156	9,317	5,930	9,696
1944	6,973	6,646	6,967	7,563	4,815	5,044	5,942	8,008	8,220	6,899	9,104	6,126	6,859
1945	6,504	7,259	7,287	5,948	5,893	5,968	6,328	11,142	12,265	9,486	7,091	5,405	7,548
1946	6,437	7,501	7,082	9,879	8,803	10,618	11,018	14,400	12,523	10,830	7,797	5,582	9,373
1947	7,021	7,053	8,221	13,645	10,802	10,021	9,486	12,621	12,627	9,893	9,316	6,326	9,753
1948	9,729	6,625	8,444	13,433	7,629	9,465	9,435	15,605	16,265	12,839	8,490	6,077	10,336
1949	7,398	6,989	6,802	9,645	6,359	11,682	10,924	13,331	11,146	7,975	10,103	7,285	9,137
1950	6,361	6,989	6,786	11,054	9,894	12,642	11,768	12,662	15,187	11,782	6,702	5,330	9,763
1951	8,326	7,344	11,445	14,628	14,222	10,829	11,760	13,946	10,472	11,478	9,670	6,659	10,898
1952	9,033	6,724	8,023	13,190	10,126	7,899	12,112	15,194	11,730	9,834	9,723	6,938	10,044
1953	6,489	6,955	7,151	7,164	11,593	8,391	7,445	11,183	13,970	11,806	8,644	5,741	8,878
1954	7,370	7,059	6,500	11,665	11,636	8,676	10,145	13,263	14,086	12,685	9,337	6,380	9,900
1955	8,129	6,550	7,208	9,288	5,262	5,323	8,748	9,269	15,645	13,846	10,847	9,621	9,145
1956	7,974	6,534	11,042	15,067	11,336	10,997	13,356	15,079	15,652	11,950	9,886	6,238	11,259
1957	7,531	6,952	6,605	10,706	6,416	9,013	11,272	15,655	15,064	8,714	9,686	6,307	9,493
1958	6,888	7,045	6,733	9,830	8,862	9,744	9,285	13,312	14,139	8,211	7,781	5,721	8,963
1959	7,195	6,584	8,327	14,612	12,787	8,383	9,812	11,844	14,626	11,189	7,910	5,842	9,926
1960	10,639	7,976	10,144	13,057	8,385	8,637	13,033	10,687	11,890	10,163	9,345	9,452	10,284
1961	7,239	6,627	6,977	10,131	10,873	10,127	9,046	12,838	15,227	8,955	8,468	6,006	9,376
1962	7,062	6,855	6,647	9,532	7,760	5,702	11,897	11,060	11,079	10,477	8,320	5,485	8,490
1963	7,900	6,725	8,286	12,361	9,874	6,020	8,240	11,046	12,490	10,414	9,134	5,777	9,022
1964	6,860	6,970	6,672	9,350	8,020	5,931	8,308	10,855	15,233	13,571	9,051	6,455	8,940
1965	8,257	7,050	9,948	15,727	14,121	10,819	10,987	13,694	12,623	9,715	9,649	7,269	10,822
1966	7,705	7,049	7,182	11,507	8,785	6,330	10,503	10,876	10,352	10,215	9,377	6,265	8,845
1967	6,769	6,982	6,551	11,871	12,559	8,435	8,211	10,144	15,225	11,579	8,706	5,629	9,388
1968	7,457	6,910	6,920	11,919	11,197	8,963	6,721	8,799	13,286	10,400	9,462	6,562	9,050
1969	8,401	6,770	8,728	14,634	13,085	9,128	12,322	15,248	13,137	10,412	9,756	7,782	10,784
1970	7,366	6,910	6,786	9,069	10,583	7,577	7,903	10,889	12,126	8,031	8,022	5,836	8,425
1971	6,613	6,887	6,992	13,329	14,751	10,428	11,247	15,231	14,989	12,528	7,935	5,425	10,530
1972	7,270	7,092	7,012	12,940	14,098	13,930	12,203	15,052	15,012	13,490	10,362	6,766	11,269
1973	7,446	7,081	6,818	12,255	5,611	5,855	6,802	7,790	9,263	7,807	10,759	7,227	7,893
1974	5,894	6,730	9,026	16,545	14,650	12,796	13,613	14,486	15,832	14,663	7,381	5,188	11,400
1975	6,693	6,703	6,783	10,839	10,273	9,529	8,959	12,103	13,273	13,202	10,607	7,304	9,689
1976	8,013	7,025	12,335	14,707	11,863	10,548	12,143	14,555	11,019	12,033	8,609	6,464	10,776
1977	7,679	6,619	7,172	7,605	4,942	4,845	5,676	7,621	7,654	6,643	11,953	10,574	7,415
1978	6,504	7,502	7,538	9,962	8,421	10,773	10,361	12,340	10,924	11,504	7,224	5,188	9,020
Average	7,223	6,976	7,719	10,922	9,062	8,400	9,567	11,767	12,241	10,275	8,725	6,289	9,097

Table 2-11
FY 2004-2005
Federal Hydro Generation
Estimated From Continuous Hydro Regulation

2003 Safety Net CRAC Initial Proposal
Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	7,134	6,866	7,338	7,745	5,002	5,906	6,025	8,192	10,301	7,458	7,550	5,727	7,104
1930	6,218	7,543	7,347	5,790	6,567	6,232	6,857	7,207	9,479	8,055	7,473	5,617	7,032
1931	5,930	7,401	7,548	5,890	5,292	5,915	6,453	7,900	9,337	7,669	8,030	5,535	6,908
1932	6,074	7,230	6,333	5,616	5,112	7,854	12,203	13,428	13,014	10,034	7,560	5,529	8,332
1933	7,166	6,883	7,093	12,154	10,431	7,262	8,780	10,776	15,729	12,888	9,016	5,970	9,512
1934	8,745	7,620	13,256	15,916	13,445	10,980	14,010	13,666	7,642	7,969	10,154	6,601	10,834
1935	6,292	6,826	7,119	11,325	11,360	7,641	8,479	9,845	10,730	9,982	6,899	5,675	8,514
1936	6,712	7,405	7,325	7,701	5,215	6,375	8,146	13,898	11,124	8,128	8,486	5,669	8,015
1937	6,578	7,500	7,212	6,843	5,200	5,791	5,761	7,276	9,110	7,148	7,945	5,543	6,825
1938	6,613	7,131	6,948	12,805	7,644	8,762	10,418	13,924	11,626	9,530	7,808	5,681	9,074
1939	7,146	7,136	7,158	9,746	6,358	7,203	8,570	11,254	8,738	8,118	7,672	6,087	7,932
1940	7,168	7,255	7,250	8,552	6,279	9,542	9,667	10,263	9,150	7,306	8,240	5,594	8,022
1941	7,034	6,966	7,465	8,713	5,409	5,866	7,767	8,833	9,201	6,753	7,599	5,635	7,270
1942	6,512	6,834	8,933	13,100	6,541	5,551	8,150	10,122	12,733	10,683	7,583	5,660	8,534
1943	6,976	7,241	6,815	11,907	9,286	10,308	13,226	13,867	13,011	11,017	9,460	5,947	9,922
1944	7,258	6,930	7,251	7,848	5,094	5,323	6,230	8,357	8,564	6,638	9,284	6,141	7,077
1945	6,251	7,008	7,036	5,693	5,638	5,713	6,083	11,069	12,155	8,698	7,191	5,422	7,330
1946	6,402	7,468	7,049	9,846	8,770	10,587	11,099	14,551	12,544	10,268	7,939	5,598	9,344
1947	7,305	7,337	8,504	13,943	11,090	10,309	9,875	13,031	12,991	9,648	9,453	6,344	9,986
1948	10,019	6,909	8,732	13,726	7,912	9,752	9,834	15,905	16,569	12,608	8,636	6,094	10,558
1949	7,683	7,274	7,086	9,934	6,640	11,971	11,362	13,684	11,480	7,714	10,283	7,303	9,368
1950	6,560	7,189	6,987	11,260	10,097	12,850	12,070	13,025	15,492	11,509	6,807	5,345	9,932
1951	8,612	7,628	11,735	14,928	14,519	11,117	12,185	14,405	10,840	11,240	9,849	6,676	11,145
1952	9,322	7,009	8,309	13,482	10,414	8,183	12,401	15,495	12,141	9,595	9,900	6,957	10,267
1953	6,740	7,208	7,404	7,413	11,852	8,643	7,763	11,576	14,275	11,578	8,809	5,757	9,085
1954	7,655	7,345	6,784	11,956	11,928	8,961	10,555	13,719	14,451	12,459	9,512	6,398	10,143
1955	8,416	6,835	7,495	9,573	5,542	5,603	9,086	9,679	16,071	13,624	11,021	9,650	9,383
1956	8,261	6,817	11,330	15,367	11,626	11,284	13,719	15,404	16,037	11,716	10,040	6,255	11,488
1957	7,816	7,236	6,889	10,996	6,697	9,298	11,671	15,955	15,481	8,466	9,867	6,324	9,725
1958	7,127	7,286	6,972	10,075	9,103	9,987	9,643	13,595	14,497	7,920	7,925	5,737	9,156
1959	7,461	6,849	8,593	14,890	13,062	8,647	10,167	12,229	15,022	10,924	8,044	5,858	10,145
1960	10,931	8,261	10,433	13,355	8,671	8,922	13,438	11,076	12,272	9,909	9,506	9,480	10,521
1961	7,524	6,912	7,261	10,422	11,163	10,415	9,389	13,238	15,608	8,681	8,599	6,025	9,603
1962	7,317	7,109	6,901	9,792	8,015	5,953	12,300	11,442	11,423	10,206	8,413	5,501	8,698
1963	8,181	7,005	8,567	12,649	10,157	6,296	8,548	11,479	12,940	10,159	9,277	5,793	9,254
1964	7,144	7,254	6,956	9,640	8,305	6,211	8,697	11,304	15,532	13,365	9,210	6,473	9,174
1965	8,544	7,336	10,232	16,028	14,416	11,106	11,363	14,070	12,915	9,524	9,831	7,289	11,054
1966	7,991	7,335	7,465	11,799	9,073	6,611	10,858	11,241	10,677	9,952	9,560	6,284	9,070
1967	7,040	7,253	6,822	12,151	12,840	8,708	8,514	10,568	15,586	11,337	8,811	5,645	9,606
1968	7,743	7,195	7,204	12,210	11,487	9,249	7,004	9,172	13,703	10,147	9,622	6,580	9,276
1969	8,688	7,055	9,015	14,931	13,379	9,413	12,747	15,645	13,490	10,169	9,922	7,805	11,022
1970	7,641	7,184	7,059	9,346	10,861	7,850	8,202	11,333	12,451	7,790	8,141	5,853	8,643
1971	6,875	7,150	7,255	13,601	15,026	10,694	11,650	15,508	15,266	12,334	8,094	5,440	10,741
1972	7,554	7,377	7,295	13,232	14,394	14,224	12,620	15,374	15,311	13,266	10,543	6,784	11,498
1973	7,731	7,365	7,102	12,546	5,892	6,135	7,073	8,139	9,572	7,534	10,941	7,247	8,106
1974	5,955	6,794	9,088	16,628	14,727	12,867	13,733	14,613	15,912	14,283	7,462	5,204	11,439
1975	6,976	6,987	7,067	11,129	10,562	9,814	9,345	12,559	13,566	13,140	10,794	7,324	9,939
1976	8,299	7,309	12,626	15,006	12,156	10,835	12,530	14,874	11,425	11,807	8,789	6,483	11,012
1977	7,965	6,903	7,457	7,890	5,222	5,124	5,929	7,906	7,924	6,376	12,144	10,606	7,621
1978	6,065	7,066	7,099	9,528	7,983	10,341	10,015	12,067	10,600	10,573	7,284	5,204	8,652
Average	7,427	7,180	7,924	11,132	9,269	8,604	9,844	12,075	12,514	9,958	8,860	6,307	9,258

Table 2-12
FY 2005-2006
Federal Hydro Generation
Estimated From Continuous Hydro Regulation

2003 Safety Net CRAC Initial Proposal
Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	7,155	6,886	7,360	7,768	5,016	5,921	6,041	8,213	10,327	7,625	7,581	5,750	7,137
1930	6,236	7,566	7,370	5,806	6,585	6,248	6,874	7,226	9,507	8,227	7,498	5,640	7,065
1931	5,948	7,424	7,572	5,907	5,307	5,931	6,470	7,922	9,367	7,810	8,060	5,557	6,939
1932	6,093	7,252	6,352	5,632	5,126	7,873	12,377	13,612	13,109	10,207	7,589	5,552	8,398
1933	7,187	6,905	7,114	12,187	10,463	7,282	8,947	10,955	15,781	13,073	9,048	5,994	9,578
1934	8,771	7,642	13,293	15,963	13,486	11,011	14,049	13,708	7,665	8,122	10,191	6,631	10,878
1935	6,310	6,847	7,139	11,356	11,394	7,662	8,503	9,871	10,759	10,158	6,927	5,701	8,552
1936	6,732	7,428	7,348	7,722	5,231	6,391	8,251	14,082	11,216	8,301	8,518	5,693	8,076
1937	6,597	7,523	7,235	6,860	5,217	5,807	5,778	7,292	9,131	7,317	7,973	5,565	6,858
1938	6,632	7,155	6,970	12,836	7,669	8,785	10,585	14,110	11,714	9,703	7,837	5,704	9,142
1939	7,167	7,157	7,179	9,775	6,376	7,221	8,592	11,284	8,763	8,289	7,697	6,112	7,968
1940	7,189	7,279	7,272	8,574	6,297	9,568	9,694	10,289	9,176	7,476	8,270	5,617	8,058
1941	7,054	6,989	7,488	8,732	5,426	5,882	7,791	8,857	9,226	6,918	7,627	5,657	7,304
1942	6,531	6,856	8,955	13,141	6,559	5,566	8,171	10,148	12,769	10,861	7,609	5,682	8,571
1943	6,997	7,261	6,834	11,938	9,309	10,334	13,260	14,054	13,102	11,189	9,493	5,970	9,979
1944	7,278	6,950	7,271	7,870	5,108	5,337	6,248	8,380	8,588	6,802	9,315	6,163	7,109
1945	6,269	7,029	7,057	5,709	5,653	5,728	6,098	11,097	12,186	8,871	7,216	5,444	7,363
1946	6,420	7,490	7,071	9,869	8,794	10,615	11,268	14,740	12,639	10,442	7,964	5,620	9,411
1947	7,325	7,358	8,525	13,984	11,119	10,337	10,043	13,200	13,087	9,822	9,486	6,369	10,055
1948	10,049	6,930	8,759	13,761	7,932	9,778	10,001	15,949	16,617	12,791	8,664	6,118	10,613
1949	7,705	7,295	7,106	9,963	6,657	12,002	11,532	13,753	11,570	7,881	10,318	7,330	9,426
1950	6,579	7,211	7,009	11,290	10,124	12,884	12,200	13,209	15,593	11,684	6,831	5,366	9,998
1951	8,637	7,648	11,766	14,972	14,560	11,146	12,357	14,594	10,927	11,417	9,881	6,701	11,217
1952	9,349	7,032	8,333	13,517	10,443	8,204	12,432	15,539	12,232	9,767	9,933	6,984	10,314
1953	6,760	7,230	7,427	7,431	11,884	8,666	7,927	11,757	14,313	11,754	8,836	5,779	9,147
1954	7,678	7,367	6,806	11,987	11,961	8,985	10,721	13,906	14,552	12,641	9,543	6,423	10,214
1955	8,441	6,857	7,520	9,595	5,558	5,619	9,112	9,852	16,176	13,812	11,059	9,688	9,441
1956	8,285	6,836	11,359	15,412	11,658	11,312	13,822	15,447	16,141	11,895	10,075	6,279	11,543
1957	7,839	7,257	6,911	11,025	6,715	9,321	11,820	16,000	15,583	8,635	9,900	6,349	9,780
1958	7,148	7,307	6,992	10,104	9,127	10,015	9,808	13,631	14,598	8,086	7,950	5,759	9,210
1959	7,482	6,870	8,617	14,931	13,100	8,669	10,337	12,414	15,123	11,101	8,071	5,881	10,216
1960	10,962	8,284	10,463	13,396	8,696	8,945	13,617	11,256	12,363	10,083	9,539	9,518	10,594
1961	7,547	6,935	7,281	10,452	11,194	10,443	9,558	13,426	15,713	8,854	8,628	6,050	9,673
1962	7,339	7,130	6,921	9,821	8,038	5,968	12,473	11,623	11,512	10,380	8,443	5,523	8,764
1963	8,204	7,027	8,592	12,683	10,185	6,312	8,573	11,508	12,975	10,334	9,309	5,816	9,293
1964	7,165	7,275	6,976	9,669	8,330	6,227	8,859	11,480	15,576	13,550	9,242	6,499	9,237
1965	8,569	7,359	10,255	16,074	14,455	11,134	11,487	14,179	12,948	9,692	9,864	7,317	11,111
1966	8,014	7,358	7,486	11,831	9,100	6,628	10,889	11,271	10,706	10,129	9,591	6,310	9,109
1967	7,061	7,274	6,843	12,185	12,878	8,732	8,683	10,744	15,674	11,514	8,843	5,668	9,675
1968	7,765	7,218	7,225	12,242	11,518	9,274	7,025	9,195	13,742	10,322	9,657	6,606	9,316
1969	8,714	7,076	9,041	14,972	13,417	9,436	12,922	15,786	13,589	10,342	9,956	7,836	11,091
1970	7,664	7,206	7,079	9,371	10,891	7,871	8,371	11,509	12,483	7,958	8,170	5,876	8,704
1971	6,894	7,170	7,276	13,636	15,067	10,720	11,819	15,552	15,308	12,513	8,119	5,461	10,795
1972	7,576	7,399	7,317	13,265	14,433	14,261	12,796	15,416	15,355	13,452	10,579	6,811	11,555
1973	7,754	7,386	7,124	12,578	5,909	6,151	7,095	8,160	9,600	7,703	10,978	7,274	8,143
1974	5,972	6,814	9,109	16,675	14,770	12,900	13,832	14,670	15,958	14,469	7,490	5,226	11,490
1975	6,996	7,007	7,087	11,160	10,592	9,839	9,511	12,740	13,602	13,321	10,829	7,352	10,003
1976	8,323	7,330	12,659	15,049	12,191	10,864	12,663	14,914	11,512	11,989	8,817	6,509	11,068
1977	7,989	6,923	7,478	7,914	5,237	5,138	5,947	7,930	7,948	6,513	12,185	10,648	7,654
1978	6,083	7,086	7,116	9,554	8,003	10,369	10,185	12,249	10,685	10,747	7,312	5,226	8,718
Average	7,449	7,202	7,947	11,163	9,295	8,626	9,948	12,174	12,576	10,131	8,890	6,332	9,311

2.7 FEDERAL LOADS AND RESOURCES ANALYSIS

The loads and resources analysis compiles all load, contract, and resource data for the Federal system. This data is presented in 3 separate output formats for direct input into RiskMod. This analysis presents FY 2003-2006 for the following:

- Federal system monthly energy surplus/deficit analysis under 1937 water conditions.
- Supporting monthly energy tables, including Federal regulated and independent hydro under 1937 water conditions.
- Supporting monthly HLH MWh tables with the exception of the Federal regulated and independent hydro.
- Supporting monthly LLH MWh tables with the exception of the Federal regulated and independent hydro.

2.7.1 FEDERAL SYSTEM
Monthly Energy Analysis
For FY 2003-2006

Loads and Resources - Federal System
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

1/23/2003

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	109	126	141	143	133	126	116	116	113	119	117	114	114	107	122
USBR 2002 PSC Sale	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
DSI 2002 PSC Sale	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Total Firm Non-Utility Obligations	240	185	190	192	180	197	364	364	419	441	480	426	426	334	304
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2,347	2,664	3,020	3,115	2,960	2,607	2,518	2,511	2,421	2,476	2,522	2,516	2,515	2,328	2,624
GPU 2002 PSC Sale	1,855	2,212	2,483	2,513	2,477	2,291	2,317	2,310	2,080	1,952	1,731	1,783	1,783	1,855	2,129
NGP Slice Sale	600	682	660	630	494	542	523	516	575	724	672	840	620	499	611
GPU Slice Sale	1,000	1,136	1,099	1,049	823	902	872	859	958	1,206	1,119	1,399	1,032	831	1,017
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	1,069	1,079	1,086	868	864	827	1,093	1,093	1,112	1,199	1,205	1,183	1,183	1,175	1,063
Intra-Regional Transfers (Out)	2,063	2,427	2,440	2,067	1,583	1,672	1,109	1,109	1,140	1,252	1,095	948	941	856	1,554
Supp & Entitlement Capacity (Out)	42	42	42	42	42	42	0	0	0	0	0	0	0	0	21
CSPE To West Group Utilities	93	93	93	93	93	93	0	0	0	0	0	0	0	0	46
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	9,451	10,718	11,306	10,760	9,719	9,357	8,814	8,781	8,669	9,190	8,726	9,052	8,456	7,925	9,448
Total Firm Obligations	9,691	10,902	11,497	10,952	9,899	9,554	9,179	9,145	9,088	9,631	9,207	9,478	8,882	8,259	9,752
Hydro Resources															
Regulated Hydro	6,166	7,165	6,946	6,642	4,982	5,492	5,352	5,180	6,451	8,295	7,226	9,246	6,578	5,147	6,474
Independent Hydro	385	305	236	176	196	274	433	514	710	745	451	437	435	370	396
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	21	21	21	21	21	21	0	0	0	0	0	0	0	0	11
Non-Fed CER (Canada)	79	79	79	79	79	79	142	142	142	142	142	142	142	142	110
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	6,650	7,569	7,282	6,917	5,278	5,866	5,927	5,837	7,303	9,182	7,819	9,825	7,155	5,659	6,991
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	309	423	482	396	352	319	300	262	125	147	228	213	213	247	293
Intra-Regional Transfers (In)	2,642	2,619	2,650	2,588	2,465	2,305	1,878	1,478	1,328	1,340	2,118	2,128	2,125	2,186	2,170
Supp & Entitlement Capacity (In)	42	42	42	42	42	42	0	0	0	0	0	0	0	0	21
Large Thermal	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	290	233	1,000	1,000	1,000	1,000	877
Non-Utility Generation	78	104	108	110	101	93	115	115	109	96	77	85	83	60	95
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	4,098	4,217	4,313	4,168	3,991	3,791	3,323	2,885	1,879	1,844	3,450	3,453	3,449	3,519	3,485
Total Resources	10,749	11,786	11,595	11,085	9,268	9,657	9,250	8,722	9,182	11,026	11,269	13,278	10,604	9,178	10,477
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-303	-332	-327	-313	-261	-272	-261	-246	-259	-311	-318	-374	-299	-259	-295
Total Res., Maint. & Losses	-303	-332	-327	-313	-261	-272	-261	-246	-259	-311	-318	-374	-299	-259	-295
Total Net Resources	10,446	11,454	11,268	10,773	9,007	9,384	8,990	8,476	8,923	10,715	10,951	12,904	10,305	8,920	10,181
Total Firm Surplus/Deficit	755	551	-228	-179	-892	-169	-189	-669	-165	1,084	1,745	3,425	1,422	660	430

Loads and Resources - Federal System
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

1/23/2003

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	114	132	147	149	140	131	121	121	118	124	123	120	120	112	128
USBR 2002 PSC Sale	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
DSI 2002 PSC Sale	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Total Firm Non-Utility Obligations	562	506	512	514	503	518	686	685	740	762	802	748	748	655	626
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2,523	2,861	3,230	3,323	3,184	2,784	2,691	2,685	2,594	2,651	2,702	2,697	2,697	2,504	2,812
GPU 2002 PSC Sale	1,953	2,336	2,630	2,640	2,602	2,412	2,151	2,146	2,050	1,794	1,800	1,856	1,856	1,918	2,178
NGP Slice Sale	598	680	658	627	491	539	528	522	597	725	632	810	588	504	606
GPU Slice Sale	995	1,132	1,095	1,045	818	897	880	870	994	1,208	1,052	1,349	979	840	1,010
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	966	954	987	984	979	942	966	966	984	1,062	1,056	1,028	1,028	1,019	994
Intra-Regional Transfers (Out)	344	645	658	656	600	449	367	367	170	327	354	250	251	290	426
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	7,761	8,989	9,641	9,657	9,057	8,404	7,966	7,937	7,770	8,149	7,978	8,372	7,781	7,457	8,408
Total Firm Obligations	8,323	9,496	10,153	10,170	9,560	8,922	8,651	8,622	8,510	8,911	8,779	9,120	8,529	8,113	9,033
Hydro Resources															
Regulated Hydro	6,192	7,195	6,975	6,667	5,004	5,516	5,363	5,210	6,565	8,364	6,697	8,853	6,165	5,173	6,429
Independent Hydro	386	305	237	176	196	275	434	515	711	746	451	437	435	370	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	140	140	140	140	140	140	140	140	141
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	6,720	7,642	7,354	6,985	5,342	5,933	5,937	5,865	7,416	9,250	7,288	9,431	6,740	5,683	6,967
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	269	337	394	368	324	294	275	237	100	122	203	182	182	215	255
Intra-Regional Transfers (In)	2,008	2,057	1,957	1,990	1,978	1,991	1,652	1,252	1,095	1,105	1,939	1,964	1,965	2,032	1,797
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	387	133	1,000	1,000	1,000	1,000	877
Non-Utility Generation	128	154	157	160	150	143	165	165	158	146	126	110	110	103	141
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	3,432	3,576	3,540	3,550	3,484	3,458	3,122	2,684	1,768	1,533	3,296	3,283	3,284	3,377	3,100
Total Resources	10,153	11,218	10,894	10,534	8,826	9,391	9,059	8,549	9,184	10,783	10,584	12,714	10,024	9,060	10,067
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-286	-316	-307	-297	-249	-265	-255	-241	-259	-304	-298	-359	-283	-255	-284
Total Res., Maint. & Losses	-286	-316	-307	-297	-249	-265	-255	-241	-259	-304	-298	-359	-283	-255	-284
Total Net Resources	9,866	10,901	10,586	10,237	8,577	9,126	8,803	8,308	8,925	10,479	10,285	12,355	9,741	8,805	9,783
Total Firm Surplus/Deficit	1,543	1,405	434	67	-982	204	152	-315	415	1,568	1,506	3,236	1,213	692	750

Loads and Resources - Federal System
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

1/23/2003

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	115	133	147	150	140	132	122	121	119	125	123	120	120	113	128
USBR 2002 PSC Sale	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
DSI 2002 PSC Sale	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Total Firm Non-Utility Obligations	562	507	513	514	503	518	686	686	740	763	802	749	749	656	626
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2,563	2,906	3,280	3,382	3,242	2,835	2,740	2,733	2,640	2,698	2,750	2,745	2,745	2,550	2,861
GPU 2002 PSC Sale	1,958	2,340	2,634	2,643	2,606	2,415	2,099	2,093	2,009	1,746	1,754	1,818	1,818	1,879	2,158
NGP Slice Sale	598	680	657	627	491	538	526	520	645	797	645	812	590	506	617
GPU Slice Sale	997	1,132	1,095	1,044	817	896	876	866	1,075	1,327	1,073	1,353	983	843	1,028
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	928	931	946	944	940	933	956	956	975	983	945	934	934	928	945
Intra-Regional Transfers (Out)	344	645	658	656	600	449	367	367	170	327	354	250	251	290	426
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Transfers Out	7,770	9,016	9,653	9,677	9,078	8,448	7,947	7,917	7,897	8,260	7,903	8,294	7,702	7,379	8,418
Total Firm Obligations	8,332	9,523	10,165	10,192	9,581	8,967	8,633	8,602	8,637	9,022	8,705	9,043	8,451	8,034	9,044
Hydro Resources															
Regulated Hydro	6,212	7,218	6,998	6,685	5,020	5,533	5,380	5,226	6,581	8,385	6,866	8,884	6,189	5,194	6,461
Independent Hydro	386	305	237	176	196	275	434	515	711	747	451	438	436	371	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)	140	140	140	140	140	140	139	139	139	139	139	139	139	139	140
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	6,738	7,663	7,375	7,001	5,357	5,948	5,953	5,880	7,432	9,271	7,457	9,461	6,764	5,704	6,998
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	249	317	374	348	304	274	275	237	100	122	203	182	182	215	245
Intra-Regional Transfers (In)	1,983	2,032	1,932	1,589	1,580	1,591	1,253	1,250	1,097	1,105	1,538	1,567	1,565	1,632	1,575
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Non-Utility Generation	117	130	130	133	127	120	123	123	119	122	110	110	110	103	120
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	3,378	3,507	3,468	3,102	3,043	3,016	2,680	2,640	2,344	2,375	2,879	2,885	2,884	2,978	2,969
Total Resources	10,115	11,170	10,842	10,103	8,400	8,964	8,633	8,520	9,775	11,646	10,335	12,346	9,648	8,681	9,967
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-285	-315	-306	-285	-237	-253	-243	-240	-276	-328	-291	-348	-272	-245	-281
Total Res., Maint. & Losses	-285	-315	-306	-285	-237	-253	-243	-240	-276	-328	-291	-348	-272	-245	-281
Total Net Resources	9,830	10,855	10,537	9,818	8,163	8,711	8,390	8,280	9,500	11,318	10,044	11,998	9,376	8,437	9,686
Total Firm Surplus/Deficit	1,498	1,332	371	-374	-1,418	-256	-243	-323	863	2,296	1,339	2,955	925	402	642

2.7.2 ENERGY SUPPORTING DATA
Monthly Energy Analysis
For FY 2003-2006

Table A-2: Exports
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	20	20	20	20	5
BPA to AZUS CapS	0	0	0	0	0	0	0	0	0	0	0	3	3	3	0
BPA to AZUS PwrS	0	0	0	0	0	0	0	0	0	4	4	1	1	1	1
BPA to BANN CapS	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
BPA to BANN PwrS	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
BPA to BART PwrS	35	35	35	40	40	40	40	40	40	40	33	33	33	33	37
BPA to BCHP CanEnt	293	293	293	293	293	293	535	535	535	535	535	537	537	537	414
BPA to BURB C/N/X	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
BPA to CLTN CapS	0	0	0	0	0	0	0	0	0	0	0	3	3	3	0
BPA to CLTN PwrX	0	0	0	0	0	0	0	0	0	4	4	1	1	1	1
BPA to GLEN C/N/X	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
BPA to MSR PwrS	73	58	76	75	74	45	46	46	44	113	113	94	94	91	75
BPA to Other ECD Entities	60	76	89	87	84	77	71	71	60	64	70	64	64	58	72
BPA to Other PSW Entities	514	538	513	300	300	300	300	300	300	300	300	300	300	300	356
BPA to PASA C/N/X	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
BPA to RVSD C/N/X	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
BPA to RVSD C/N/X	11	3	3	3	3	3	3	3	0	0	11	11	11	11	5
BPA to RVSD CapS	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	26	26	0	0	0	0	4
BPA to SPP PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
BPA NW-SW Intertie Losses	20	19	19	13	13	12	12	12	13	15	15	15	15	15	15
Federal Entities	1,069	1,079	1,086	868	864	827	1,093	1,093	1,112	1,199	1,205	1,183	1,183	1,175	1,063

Table A-2: Exports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	20	20	20	20	5
BPA to BART PwrS	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
BPA to BCHP CanEnt	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537
BPA to BURB C/N/X	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
BPA to GLEN C/N/X	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
BPA to MSR PwrS	73	58	76	75	74	45	46	46	44	113	113	94	94	91	75
BPA to Other ECD Entities	63	79	93	92	88	81	75	75	63	67	74	67	67	61	75
BPA to Other PSW Entities	300	300	300	175	175	175	175	175	175	175	175	175	175	175	206
BPA to PASA C/N/X	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
BPA to RVSD C/N/X	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
BPA to RVSD C/N/X	11	3	3	3	3	3	3	3	0	0	11	11	11	11	5
BPA to RVSD CapS	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	26	26	0	0	0	0	4
BPA to SPP PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
BPA NW-SW Intertie Losses	13	12	13	9	9	8	8	8	9	11	11	11	11	11	10
Federal Entities	1,092	1,079	1,112	980	976	939	963	963	982	1,060	1,074	1,048	1,048	1,040	1,029

Table A-2: Exports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BART PwrS	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
BPA to BCHP CanEnt	537	537	537	537	537	537	537	537	537	537	537	535	535	535	537
BPA to BURB C/N/X	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
BPA to GLEN C/N/X	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
BPA to MSR PwrS	73	58	76	75	74	45	46	46	44	113	113	94	94	91	75
BPA to Other ECD Entities	66	83	97	95	91	84	78	78	65	70	77	70	70	64	78
BPA to Other PSW Entities	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
BPA to PASA C/N/X	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
BPA to RVSD C/N/X	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
BPA to RVSD C/N/X	11	3	3	3	3	3	3	3	0	0	11	11	11	11	5
BPA to RVSD CapS	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	26	26	0	0	0	0	4
BPA to SPP PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
BPA NW-SW Intertie Losses	9	8	9	9	9	8	8	8	9	11	11	10	10	10	9
Federal Entities	966	954	987	984	979	942	966	966	984	1,062	1,056	1,028	1,028	1,019	994

Table A-2: Exports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA to BART PwrS	33	33	33	33	33	33	33	33	33	33	1	0	0	0	24
BPA to BCHP CanEnt	535	535	535	535	535	535	535	535	535	535	535	532	532	532	535
BPA to BURB C/N/X	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
BPA to GLEN C/N/X	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
BPA to Other ECD Entities	68	86	101	99	95	88	81	81	68	72	80	73	73	67	81
BPA to Other PSW Entities	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
BPA to PASA C/N/X	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
BPA to RVSD C/N/X	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
BPA to RVSD C/N/X	11	3	3	3	3	3	3	3	0	0	11	11	11	11	5
BPA to RVSD CapS	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	26	26	0	0	0	0	4
BPA to SPP PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
BPA NW-SW Intertie Losses	8	8	8	8	8	8	8	8	9	9	7	7	7	7	8
Federal Entities	928	931	946	944	940	933	956	956	975	983	945	934	934	928	945

**Table A-3: Regulated Hydro Projects
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Albeni Falls	36	17	18	16	14	17	18	18	29	45	41	23	18	27	25
Bonneville	480	541	543	522	424	496	358	219	262	393	234	326	138	424	403
Chief Joseph	1,019	1,262	1,245	1,163	825	820	837	831	850	1,269	1,091	1,664	1,208	800	1,051
Dworshak	51	51	51	51	50	50	51	53	56	283	440	438	203	51	126
Grand Coulee	1,893	2,306	2,217	2,068	1,424	1,309	1,310	1,360	1,491	2,375	2,043	3,088	2,196	1,466	1,881
Hungry Horse	85	90	90	92	92	88	67	28	29	30	126	91	65	76	77
Ice Harbor	139	97	103	125	107	183	152	166	281	211	153	115	80	123	148
John Day	783	910	902	864	671	775	766	761	842	1,043	840	980	722	666	826
Libby	111	286	148	81	79	78	77	77	172	292	142	519	353	112	168
Little Goose	139	98	102	127	93	175	248	300	507	380	284	228	169	134	209
Lower Granite	137	98	103	128	94	178	242	308	511	389	291	233	173	140	212
Lower Monumental	141	97	103	126	107	186	264	316	514	393	292	230	170	128	215
Mc Nary	538	597	607	593	449	513	416	282	397	560	744	722	650	458	541
The Dalles	613	714	713	687	554	625	547	463	511	632	505	590	433	542	593
Federal System	6,166	7,165	6,946	6,642	4,982	5,492	5,352	5,180	6,451	8,295	7,226	9,246	6,578	5,147	6,474

**Table A-3: Regulated Hydro Projects
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Albeni Falls	36	17	18	16	14	17	18	18	29	45	41	23	18	27	25
Bonneville	480	541	543	522	425	497	359	219	262	393	234	326	138	424	404
Chief Joseph	1,020	1,264	1,247	1,164	826	821	838	832	850	1,270	1,092	1,665	1,208	800	1,052
Dworshak	51	51	51	51	50	50	51	53	56	284	440	438	203	51	126
Grand Coulee	1,898	2,313	2,224	2,073	1,428	1,313	1,314	1,364	1,495	2,381	2,049	3,103	2,207	1,473	1,887
Hungry Horse	85	90	90	92	92	88	67	28	29	30	126	91	65	76	77
Ice Harbor	141	98	104	126	108	185	152	167	282	212	153	83	39	123	146
John Day	784	911	903	865	672	776	767	761	843	1,043	841	980	723	666	827
Libby	111	286	148	81	79	78	77	77	172	292	143	519	354	112	168
Little Goose	140	99	103	128	94	177	251	303	512	384	286	74	15	134	198
Lower Granite	138	99	104	129	95	180	245	311	516	393	294	107	47	140	204
Lower Monumental	143	98	104	127	108	188	267	319	519	396	295	2	2	128	200
Mc Nary	538	598	607	593	449	513	416	282	397	560	744	723	650	459	541
The Dalles	614	714	713	688	554	625	548	463	512	632	506	591	434	543	593
Federal System	6,180	7,179	6,960	6,655	4,993	5,506	5,368	5,197	6,473	8,316	7,246	8,725	6,102	5,157	6,447

**Table A-3: Regulated Hydro Projects
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Albeni Falls	36	17	18	16	14	17	18	18	29	45	41	23	18	27	25
Bonneville	481	542	543	523	425	497	359	219	262	393	234	326	138	425	404
Chief Joseph	1,021	1,264	1,247	1,165	826	821	838	833	851	1,270	1,093	1,671	1,213	803	1,053
Dworshak	51	51	51	51	50	50	51	53	56	284	440	439	203	52	126
Grand Coulee	1,908	2,325	2,235	2,082	1,436	1,321	1,321	1,372	1,502	2,392	2,061	3,116	2,217	1,480	1,896
Hungry Horse	85	90	90	92	92	88	67	28	29	30	126	91	65	76	77
Ice Harbor	141	98	104	126	108	185	138	170	363	245	147	83	39	123	155
John Day	784	912	903	865	672	776	768	762	843	1,044	841	982	724	668	827
Libby	111	287	149	81	79	78	77	77	172	292	143	520	354	112	168
Little Goose	140	99	103	128	94	177	251	303	512	384	133	74	15	134	186
Lower Granite	138	99	104	130	95	180	245	311	517	393	168	108	47	141	193
Lower Monumental	143	98	105	127	108	188	267	319	519	397	17	105	45	128	183
Mc Nary	539	598	608	594	449	514	417	283	397	561	745	724	651	460	542
The Dalles	614	715	714	688	555	626	548	464	512	633	506	592	434	544	594
Federal System	6,192	7,195	6,975	6,667	5,004	5,516	5,363	5,210	6,565	8,364	6,697	8,853	6,165	5,173	6,429

**Table A-3: Regulated Hydro Projects
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Albeni Falls	37	17	18	16	14	17	18	18	29	45	42	23	18	28	25
Bonneville	482	543	545	524	426	497	360	219	262	394	235	326	138	426	404
Chief Joseph	1,024	1,269	1,252	1,168	830	825	842	836	854	1,275	1,098	1,678	1,218	807	1,057
Dworshak	51	51	51	51	50	50	51	53	56	284	441	440	203	52	126
Grand Coulee	1,917	2,336	2,246	2,090	1,444	1,327	1,328	1,379	1,509	2,402	2,072	3,131	2,228	1,488	1,905
Hungry Horse	85	90	90	92	92	88	67	28	29	30	127	91	65	76	77
Ice Harbor	141	98	104	126	108	185	138	170	363	245	147	83	39	123	155
John Day	786	914	905	867	673	778	769	763	845	1,045	843	983	725	669	829
Libby	111	287	149	81	79	78	77	77	172	292	144	520	355	112	168
Little Goose	141	99	103	128	94	178	251	304	513	384	131	73	14	135	186
Lower Granite	139	100	105	130	95	180	245	311	517	394	166	106	46	141	193
Lower Monumental	143	98	105	128	108	189	267	320	520	397	168	103	44	129	196
Mc Nary	540	599	609	595	450	515	418	283	398	562	747	733	659	465	544
The Dalles	616	716	715	690	556	627	550	465	513	634	507	593	435	545	595
Federal System	6,212	7,218	6,998	6,685	5,020	5,533	5,380	5,226	6,581	8,385	6,866	8,884	6,189	5,194	6,461

**Table A-4: Independent Hydro Projects
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	23	18	11	16
Big Cliff	13	15	7	4	7	7	10	17	21	21	8	8	7	9	11
Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Black Canyon	9	6	7	9	5	8	10	10	10	8	8	10	10	8	8
Bonneville Fishway	25	12	12	12	25	25	25	25	25	25	25	25	25	25	21
Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
Cougar	25	24	6	4	6	7	8	29	29	29	11	17	24	12	16
Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	10	10	8	26
Detroit	44	46	20	11	18	20	33	66	106	91	30	30	24	32	41
Dexter	12	16	4	4	5	5	10	16	17	17	6	6	6	6	9
Foster	8	6	14	4	9	21	22	23	23	23	6	4	10	4	12
Green Peter	26	16	34	8	1	33	89	45	59	49	10	22	32	4	28
Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Hills Creek	23	27	6	6	4	5	19	31	35	35	14	7	7	25	18
Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	6	6	6	6
Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	6	6	7	6
Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	7	6
Lookout Point	45	47	9	9	12	15	38	64	80	75	24	25	22	24	35
Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	34	23	30
Minidoka	12	3	9	3	2	2	14	14	31	31	31	31	31	29	16
Palisades	55	15	15	20	23	27	21	38	95	131	131	131	131	119	66
Roza	4	0	5	4	4	13	13	13	13	13	13	13	13	0	8
Federal System	385	305	236	176	196	274	433	514	710	745	451	437	435	370	396

**Table A-4: Independent Hydro Projects
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	23	18	11	16
Big Cliff	13	15	7	4	7	7	10	17	21	21	8	8	7	9	11
Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Black Canyon	9	6	7	9	5	8	10	10	10	8	8	10	10	8	8
Bonneville Fishway	25	12	12	12	25	25	25	25	25	25	25	25	25	25	21
Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
Cougar	25	24	6	4	6	7	8	29	29	29	11	17	24	12	16
Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	10	10	8	26
Detroit	44	46	20	11	18	20	33	66	106	91	30	30	24	32	41
Dexter	12	16	4	4	5	5	10	16	17	17	6	6	6	6	9
Foster	8	6	14	4	9	21	22	23	23	23	6	4	10	4	12
Green Peter	26	16	34	8	1	33	89	45	59	49	10	22	32	4	28
Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Hills Creek	23	27	6	6	4	5	19	31	35	35	14	7	7	25	18
Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	6	6	6	6
Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	6	6	7	6
Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	7	6
Lookout Point	45	47	9	9	12	15	38	64	80	75	24	25	22	24	35
Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	34	23	30
Minidoka	12	3	9	3	2	2	14	14	31	31	31	31	31	29	16
Palisades	55	15	15	20	23	27	21	38	95	131	131	131	131	119	66
Roza	4	0	5	4	4	13	13	13	13	13	13	13	13	0	8
Federal System	385	305	236	176	196	274	433	515	710	746	451	437	435	370	397

**Table A-4: Independent Hydro Projects
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	23	18	11	16
Big Cliff	13	15	7	4	7	7	10	17	21	21	8	8	7	9	11
Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Black Canyon	9	6	7	9	5	8	10	10	10	8	8	10	10	8	8
Bonneville Fishway	25	12	12	12	25	25	25	25	25	25	25	25	25	25	21
Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
Cougar	25	24	6	4	6	7	8	29	29	29	11	17	24	12	16
Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	10	10	8	26
Detroit	44	46	20	11	18	20	33	66	106	91	30	30	24	32	41
Dexter	12	16	4	4	5	5	10	16	17	17	6	6	6	6	9
Foster	8	6	14	4	9	21	22	23	23	23	6	4	10	4	12
Green Peter	26	16	34	8	1	33	89	45	59	49	10	22	32	4	28
Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Hills Creek	23	27	6	6	4	5	19	31	35	35	14	7	7	25	18
Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	6	6	6	6
Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	6	6	7	6
Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	7	6
Lookout Point	45	47	9	9	12	15	38	64	80	75	24	25	22	24	35
Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	34	23	30
Minidoka	12	3	9	3	2	2	14	14	31	31	31	31	31	29	16
Palisades	55	15	15	20	23	27	21	38	95	131	131	131	131	119	66
Roza	4	0	5	4	4	13	13	13	13	13	13	13	13	0	8
Federal System	386	305	237	176	196	275	434	515	711	746	451	437	435	370	397

**Table A-4: Independent Hydro Projects
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	23	18	11	16
Big Cliff	13	15	7	4	7	7	10	17	21	21	8	8	7	9	11
Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Black Canyon	9	6	7	9	5	8	10	10	10	8	8	10	10	8	8
Bonneville Fishway	25	12	12	12	25	25	25	25	25	25	25	25	25	25	21
Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
Cougar	25	24	6	4	6	7	8	29	29	29	11	17	24	12	16
Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	10	10	8	26
Detroit	44	46	20	11	18	20	33	66	106	91	30	30	24	32	41
Dexter	12	16	4	4	5	5	10	16	17	17	6	6	6	6	9
Foster	8	6	14	4	9	21	22	23	23	23	6	4	10	4	12
Green Peter	26	16	34	8	1	33	89	45	59	49	10	22	32	4	28
Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Hills Creek	23	27	6	6	4	5	19	31	35	35	14	7	7	25	18
Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	6	6	6	6
Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	6	6	7	6
Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	7	6
Lookout Point	45	47	9	9	12	15	38	64	80	75	24	25	22	24	35
Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	34	23	30
Minidoka	12	3	9	3	2	2	14	14	31	31	31	31	31	29	16
Palisades	55	15	15	20	23	27	21	38	95	131	131	132	132	119	66
Roza	4	0	5	4	4	13	13	13	13	13	13	13	0	8	
Federal System	386	305	237	176	196	275	434	515	711	747	451	438	436	371	397

Table A-5: Imports
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
PPLE To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
ANHM To BPA PwrX	20	20	20	20	20	0	0	0	0	0	0	0	0	0	10
BURB To BPA XchgNrg	3	4	5	5	5	5	3	3	3	3	3	3	3	3	4
BURB To BPA PkRepl	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
CLTN To BPA PwrX	0	3	3	3	3	0	0	0	0	0	0	0	0	0	1
GLEN To BPA XchgNrg	3	4	6	6	6	6	3	3	3	3	3	3	3	3	4
GLEN To BPA PkRepl	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
Other PSW Entities To BPA	39	83	85	25	25	25	25	25	25	25	25	25	25	25	36
PASA To BPA XchgNrg	2	3	3	3	3	3	3	2	2	2	2	2	2	2	2
PASA To BPA PkRepl	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
PASA To BPA XchgNrg	3	3	3	3	3	2	0	0	0	0	0	0	0	3	2
PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
RVSD To BPA XchgNrg	6	6	6	6	6	6	0	0	0	0	0	0	0	0	3
RVSD To BPA PkRepl	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
RVSD To BPA PkRepl	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
RVSD To BPA XchgNrg	0	16	16	16	16	16	16	0	0	0	0	0	0	0	7
RVSD To BPA S/Pwr/X	0	9	9	9	9	9	9	0	0	0	0	0	0	0	4
RVSD To BPA PkRepl	11	3	3	3	3	3	3	3	0	0	11	11	11	11	5
Other ISW Entities To BPA	50	50	50	50	50	50	50	50	0	0	50	50	50	50	42
SPP To BPA PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
PWRX To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	3	3	3	0
PWRX To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
PWRX To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	3	3	3	0
Federal System	309	423	482	396	352	319	300	262	125	147	228	213	213	247	293

Table A-5: Imports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
PPLE To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
ANHM To BPA PwrX	20	20	20	20	20	20	0	0	0	0	0	0	0	0	10
BURB To BPA XchgNrg	3	4	5	5	5	5	5	3	3	3	3	3	3	3	4
BURB To BPA PkRepl	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
CLTN To BPA PwrX	0	3	3	3	3	0	0	0	0	0	0	0	0	0	1
GLEN To BPA XchgNrg	3	4	6	6	6	6	6	3	3	3	3	3	3	3	4
GLEN To BPA PkRepl	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
Other PSW Entities To BPA	25	25	25	0	0	0	0	0	0	0	0	0	0	0	6
PASA To BPA XchgNrg	2	3	3	3	3	3	3	2	2	2	2	2	2	2	2
PASA To BPA PkRepl	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
PASA To BPA XchgNrg	3	3	3	3	3	2	0	0	0	0	0	0	0	0	2
PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
RVSD To BPA XchgNrg	6	6	6	6	6	6	6	0	0	0	0	0	0	0	3
RVSD To BPA PkRepl	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
RVSD To BPA PkRepl	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
RVSD To BPA XchgNrg	0	16	16	16	16	16	16	0	0	0	0	0	0	0	7
RVSD To BPA S/Pwr/X	0	9	9	9	9	9	9	0	0	0	0	0	0	0	4
RVSD To BPA PkRepl	11	3	3	3	3	3	3	3	0	0	11	11	11	11	5
Other ISW Entities To BPA	50	50	50	50	50	50	50	50	0	0	50	50	50	50	42
SPP To BPA PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
Federal System	294	365	422	371	327	294	275	237	100	122	203	182	182	215	263

Table A-5: Imports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
PPLE To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
ANHM To BPA PwrX	20	20	20	20	20	20	0	0	0	0	0	0	0	0	10
BURB To BPA XchgNrg	3	4	5	5	5	5	5	3	3	3	3	3	3	3	4
BURB To BPA PkRepl	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
GLEN To BPA XchgNrg	3	4	6	6	6	6	6	3	3	3	3	3	3	3	4
GLEN To BPA PkRepl	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
Other PSW Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	2	3	3	3	3	3	3	2	2	2	2	2	2	2	2
PASA To BPA PkRepl	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
PASA To BPA XchgNrg	3	3	3	3	3	2	0	0	0	0	0	0	0	0	2
PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
RVSD To BPA XchgNrg	6	6	6	6	6	6	6	0	0	0	0	0	0	0	3
RVSD To BPA PkRepl	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
RVSD To BPA PkRepl	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
RVSD To BPA XchgNrg	0	16	16	16	16	16	16	0	0	0	0	0	0	0	7
RVSD To BPA S/Pwr/X	0	9	9	9	9	9	9	0	0	0	0	0	0	0	4
RVSD To BPA PkRepl	11	3	3	3	3	3	3	0	0	0	11	11	11	11	5
Other ISW Entities To BPA	50	50	50	50	50	50	50	50	0	0	50	50	50	50	42
SPP To BPA PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
Federal System	269	337	394	368	324	294	275	237	100	122	203	182	182	215	255

Table A-5: Imports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
PPLE To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
BURB To BPA XchgNrg	3	4	5	5	5	5	3	3	3	3	3	3	3	3	4
BURB To BPA PkRepl	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
GLEN To BPA XchgNrg	3	4	6	6	6	6	3	3	3	3	3	3	3	3	4
GLEN To BPA PkRepl	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
Other PSW Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	2	3	3	3	3	3	2	2	2	2	2	2	2	2	2
PASA To BPA PkRepl	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
PASA To BPA XchgNrg	3	3	3	3	3	2	0	0	0	0	0	0	0	3	2
PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
RVSD To BPA XchgNrg	6	6	6	6	6	6	6	0	0	0	0	0	0	0	3
RVSD To BPA PkRepl	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
RVSD To BPA PkRepl	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
RVSD To BPA XchgNrg	0	16	16	16	16	16	16	0	0	0	0	0	0	0	7
RVSD To BPA S/Pwr/X	0	9	9	9	9	9	9	0	0	0	0	0	0	0	4
RVSD To BPA PkRepl	11	3	3	3	3	3	3	3	0	0	11	11	11	11	5
Other ISW Entities To BPA	50	50	50	50	50	50	50	50	0	0	50	50	50	50	42
SPP To BPA PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
Federal System	249	317	374	348	304	274	275	237	100	122	203	182	182	215	245

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
James River Wauna	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Total Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
James River Wauna	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Total Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Average Energy in Megawatts</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Avg</i>
James River Wauna	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Total Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
James River Wauna	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Total Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29

**Table A-10: Large Thermal
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Columbia Generating Station	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	290	233	1,000	1,000	1,000	1,000	877
Total Federal System	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	290	233	1,000	1,000	1,000	1,000	877

**Table A-10: Large Thermal
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Columbia Generating Station	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Total Federal System	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

**Table A-10: Large Thermal
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Columbia Generating Station	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	387	133	1,000	1,000	1,000	1,000	877
Total Federal System	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	387	133	1,000	1,000	1,000	1,000	877

**Table A-10: Large Thermal
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Columbia Generating Station	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Total Federal System	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-BPA CER for CSPE-															
BPA to BPA	72.0	72.0	72.0	72.0	72.0	72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0
BPA: Regional Totals	72.0	72.0	72.0	72.0	72.0	72.0	0.0	36.0							
-Priest Rapids CER for CSPE-															
AVWP to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
COPD to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EWEB to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FGRV to BPA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GCPD to BPA	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
KITT to BPA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MCMN to BPA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MTFR to BPA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PGE to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
PPL to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
PSE to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
SCL to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
TPU to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Priest Rapids: Reg. Totals	3.0	3.0	3.0	3.0	3.0	3.0	0.0	1.5							
-Wanapum CER for CSPE-															
AVWP to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
COPD to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
EWEB to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FGRV to BPA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GCPD to BPA	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
MCMN to BPA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MTFR to BPA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PGE to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
PPL to BPA	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
PSE to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Wanapum: Regional Totals	4.0	4.0	4.0	4.0	4.0	4.0	0.0	2.0							
-Rock Island P.H. #1 CER for CSPE-															
CHPD to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
PSE to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Rock Island P.H. #1: Reg. Totals	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.3							
-Rock Island P.H. #2 CER for CSPE-															
CHPD to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
PSE to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Rock Island P.H. #2: Reg. Totals	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.2							

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Rocky Reach CER for CSPE-															
AVWP to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
CHPD to BPA	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
CLKM to BPA	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
DOPD to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
PGE to BPA	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
PPL to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
PSE to BPA	3.1	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
Rocky Reach: Regional Totals	8.0	8.0	8.0	8.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
-Wells CER for CSPE-															
AVWP to BPA	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
DOPD to BPA	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
OKPD to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
PGE to BPA	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
PPL to BPA	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
PSE to BPA	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Wells: Regional Totals	5.0	5.0	5.0	5.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
-Total CER For CSPE-															
Federal System	72.0	72.0	72.0	72.0	72.0	72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0
Public Agencies	7.1	7.1	7.1	7.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Investor-Owned Utilities	12.0	12.0	12.0	12.0	12.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Other Entities	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Non-NW Utilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total CER For CSPE	93.0	93.0	93.0	93.0	93.0	93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.5

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-BPA CER for CSPE-															
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for CSPE-															
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wanapum CER for CSPE-															
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for CSPE-															
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for CSPE-															
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rocky Reach CER for CSPE-															
Rocky Reach: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wells CER for CSPE-															
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total CER For CSPE-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	0														

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-BPA CER for CSPE-															
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for CSPE-															
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wanapum CER for CSPE-															
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for CSPE-															
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for CSPE-															
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rocky Reach CER for CSPE-															
Rocky Reach: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wells CER for CSPE-															
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total CER For CSPE-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	0														

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-BPA CER for CSPE-															
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for CSPE-															
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wanapum CER for CSPE-															
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for CSPE-															
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for CSPE-															
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rocky Reach CER for CSPE-															
Rocky Reach: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wells CER for CSPE-															
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total CER For CSPE-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	0														

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Generating Public Entities-															
BPA to GPE	38	38	38	38	38	38	0	0	0	0	0	0	0	0	19
Tot. Generating Public Entities	38	38	38	38	38	38	0	0	0	0	0	0	0	0	19
-Small & Non-Gen Public Entities-															
BPA to S&NGE	8	8	8	8	8	8	0	0	0	0	0	0	0	0	4
Tot. Sml & Non-Gen Pub. Ent.	8	8	8	8	8	8	0	0	0	0	0	0	0	0	4
-Investor-Owned Entities-															
BPA to IOU	47	47	47	47	47	47	0	0	0	0	0	0	0	0	23
Total Investor-Owned Entities	47	47	47	47	47	47	0	0	0	0	0	0	0	0	23
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	38	38	38	38	38	38	0	0	0	0	0	0	0	0	19
Sml & Non-Gen Public Agencies	8	8	8	8	8	8	0	0	0	0	0	0	0	0	4
Investor-Owned Utilities	47	47	47	47	47	47	0	0	0	0	0	0	0	0	23
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	93	93	93	93	93	93	0	46							

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Generating Public Entities-															
BPA to GPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small & Non-Gen Public Entities-															
BPA to S&NGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Sml & Non-Gen Pub. Ent.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
BPA to IOU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small & Non-Gen Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Generating Public Entities-															
BPA to GPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small & Non-Gen Public Entities-															
BPA to S&NGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Sml & Non-Gen Pub. Ent.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
BPA to IOU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small & Non-Gen Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Generating Public Entities-															
BPA to GPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small & Non-Gen Public Entities-															
BPA to S&NGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Sml & Non-Gen Pub. Ent.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
BPA to IOU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small & Non-Gen Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Supplemental & Entitlement Capacity															
-Deliveries-															
BPA To AVWP SupEntCap	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
BPA To CHPD SupEntCap	3	3	3	3	3	3	0	0	0	0	0	0	0	0	2
BPA To CLKM SupEntCap	2	2	2	2	2	2	0	0	0	0	0	0	0	0	1
BPA To COPD SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To DOPD SupEntCap	2	2	2	2	2	2	0	0	0	0	0	0	0	0	1
BPA To EWEB SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To FGRV SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To GCPD SupEntCap	8	8	8	8	8	8	0	0	0	0	0	0	0	0	4
BPA To KITT SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To MCMN SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To MTFR SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To OKPD SupEntCap	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
BPA To PGE SupEntCap	7	7	7	7	7	7	0	0	0	0	0	0	0	0	3
BPA To PPL SupEntCap	5	5	5	5	5	5	0	0	0	0	0	0	0	0	2
BPA To PSE SupEntCap	10	10	10	10	10	10	0	0	0	0	0	0	0	0	5
BPA To SCL SupEntCap	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
BPA To TPU SupEntCap	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
Total Deliveries	42	42	42	42	42	42	0	21							
-Replacement-															
AVWP To BPA SupEntRpl	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
CHPD To BPA SupEntRpl	3	3	3	3	3	3	0	0	0	0	0	0	0	0	2
CLKM To BPA SupEntRpl	2	2	2	2	2	2	0	0	0	0	0	0	0	0	1
COPD To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD To BPA SupEntRpl	2	2	2	2	2	2	0	0	0	0	0	0	0	0	1
EWEB To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD To BPA SupEntRpl	8	8	8	8	8	8	0	0	0	0	0	0	0	0	4
KITT To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD To BPA SupEntRpl	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
PGE To BPA SupEntRpl	7	7	7	7	7	7	0	0	0	0	0	0	0	0	3
PPL To BPA SupEntRpl	5	5	5	5	5	5	0	0	0	0	0	0	0	0	2
PSE To BPA SupEntRpl	10	10	10	10	10	10	0	0	0	0	0	0	0	0	5
SCL To BPA SupEntRpl	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
TPU To BPA SupEntRpl	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
Total Replacement	42	42	42	42	42	42	0	21							

**Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Total Deliveries-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	17	17	17	17	17	17	0	0	0	0	0	0	0	0	9
Investor-Owned Utilities	23	23	23	23	23	23	0	0	0	0	0	0	0	0	11
Other Entities	2	2	2	2	2	2	0	0	0	0	0	0	0	0	1
Total Deliveries	42	42	42	42	42	42	0	21							
-Total Replacement-															
Federal System	42	42	42	42	42	42	0	0	0	0	0	0	0	0	21
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	42	42	42	42	42	42	0	21							

**Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Supplemental & Entitlement Capacity															
<i>-Deliveries-</i>															
Total Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Replacement-</i>															
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total Deliveries-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	0														
<i>-Total Replacement-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0														

**Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Supplemental & Entitlement Capacity															
<i>-Deliveries-</i>															
Total Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Replacement-</i>															
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total Deliveries-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	0														
<i>-Total Replacement-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0														

**Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Supplemental & Entitlement Capacity															
<i>-Deliveries-</i>															
Total Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Replacement-</i>															
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total Deliveries-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	0														
<i>-Total Replacement-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0														

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-BPA Canada-															
BPA to BPA	215	215	215	215	215	215	392	392	392	392	392	395	395	395	304
BPA: Regional Totals	215	215	215	215	215	215	392	392	392	392	392	395	395	395	304
-Priest Rapids CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1
COPD to BPA	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0
EWEB to BPA	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	6	6	6	6	6	6	11	11	11	11	11	11	11	11	9
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	2	2	2	2	2	2	4	4	4	4	4	4	4	4	3
PPL to BPA	2	2	2	2	2	2	4	4	4	4	4	4	4	4	3
PSE to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
SCL to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
TPU to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
Priest Rapids: Reg. Totals	17	17	17	17	17	17	30	30	30	30	30	30	30	30	24
-Wanapum CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
COPD to BPA	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
EWEB to BPA	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	6	6	6	6	6	6	11	11	11	11	11	11	11	11	8
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	3	3	3	3	3	3	5	5	5	5	5	5	5	5	4
PPL to BPA	3	3	3	3	3	3	5	5	5	5	5	5	5	5	4
PSE to BPA	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2
Wanapum: Regional Totals	16	16	16	16	16	16	29	29	29	29	29	29	29	29	23
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	3	3	3	3	3	3	6	6	6	6	6	6	6	6	4
PSE to BPA	3	3	3	3	3	3	6	6	6	6	6	6	6	6	4
Rock Island P.H. #1: Reg. Totals	6	6	6	6	6	6	11	11	11	11	11	11	11	11	9
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	1	1	1	1	1	1	2	2	2	2	3	3	3	3	2
PSE to BPA	3	3	3	3	3	3	5	5	5	5	4	4	4	4	4
Rock Island P.H. #2: Reg. Totals	4	4	4	4	4	4	7	7	7	7	7	7	7	7	6

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Rocky Reach CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CHPD to BPA	3	3	3	3	3	3	6	6	6	6	6	6	6	6	5
CLKM to BPA	5	5	5	5	5	5	9	9	9	9	9	9	9	9	7
DOPD to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PGE to BPA	3	3	3	3	3	3	5	5	5	5	5	5	5	5	4
PPL to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
PSE to BPA	8	8	8	8	8	8	15	15	15	15	15	15	15	15	12
Rocky Reach: Regional Totals	22	22	22	22	22	22	39	39	39	39	39	39	39	39	30
-Wells CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DOPD to BPA	4	4	4	4	4	4	7	7	7	7	7	7	7	7	5
OKPD to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
PGE to BPA	3	3	3	3	3	3	5	5	5	5	5	5	5	5	4
PPL to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1
PSE to BPA	4	4	4	4	4	4	8	8	8	8	8	8	8	8	6
Wells: Regional Totals	14	14	14	14	14	14	25	25	25	25	25	25	25	25	19
-Total CER For Canada-															
Federal System	215	215	215	215	215	215	392	392	392	392	392	395	395	395	304
Public Agencies	30	30	30	30	30	30	54	54	54	54	55	55	55	55	42
Investor-Owned Utilities	44	44	44	44	44	44	79	79	79	79	78	78	78	78	61
Other Entities	5	5	5	5	5	5	9	9	9	9	9	9	9	9	7
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	293	293	293	293	293	293	535	535	535	535	535	537	537	537	414

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-BPA Canada-															
BPA to BPA	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395
BPA: Regional Totals	395														
-Priest Rapids CER for Canada-															
AVWP to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
COPD to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EWEB to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PPL to BPA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PSE to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SCL to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TPU to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Priest Rapids: Reg. Totals	30														
-Wanapum CER for Canada-															
AVWP to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
COPD to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EWEB to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PPL to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PSE to BPA	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Wanapum: Regional Totals	29														
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
PSE to BPA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Rock Island P.H. #1: Reg. Totals	11														
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	3	3	3	3	3	3	3	3	3	3	4	4	4	4	3
PSE to BPA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Rock Island P.H. #2: Reg. Totals	7														

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Rocky Reach CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CHPD to BPA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
CLKM to BPA	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
DOPD to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PGE to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PPL to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PSE to BPA	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Rocky Reach: Regional Totals	39														
-Wells CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DOPD to BPA	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
OKPD to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PGE to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PPL to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PSE to BPA	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Wells: Regional Totals	25														
-Total CER For Canada-															
Federal System	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395
Public Agencies	55	55	55	55	55	55	55	55	55	55	56	56	56	56	55
Investor-Owned Utilities	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Other Entities	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	537														

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-BPA Canada-															
BPA to BPA	395	395	395	395	395	395	397	397	397	397	397	395	395	395	396
BPA: Regional Totals	395	395	395	395	395	395	397	397	397	397	397	395	395	395	396
-Priest Rapids CER for Canada-															
AVWP to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
COPD to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EWEB to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PPL to BPA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PSE to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SCL to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TPU to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Priest Rapids: Reg. Totals	30														
-Wanapum CER for Canada-															
AVWP to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
COPD to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EWEB to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PPL to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PSE to BPA	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Wanapum: Regional Totals	29														
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
PSE to BPA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Rock Island P.H. #1: Reg. Totals	11														
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PSE to BPA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Rock Island P.H. #2: Reg. Totals	7														

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Rocky Reach CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CHPD to BPA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
CLKM to BPA	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
DOPD to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PGE to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PPL to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PSE to BPA	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Rocky Reach: Regional Totals	39	39	39	39	39	39	38	39							
-Wells CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DOPD to BPA	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
OKPD to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PGE to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PPL to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PSE to BPA	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Wells: Regional Totals	25														
-Total CER For Canada-															
Federal System	395	395	395	395	395	395	397	397	397	397	397	395	395	395	396
Public Agencies	56	56	56	56	56	56	55	55	55	55	55	55	55	55	55
Investor-Owned Utilities	78	78	78	78	78	78	77	77	77	77	77	77	77	77	77
Other Entities	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	537	535	535	535	537										

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-BPA Canada-															
BPA to BPA	395	395	395	395	395	395	396	396	396	396	396	393	393	393	395
BPA: Regional Totals	395	395	395	395	395	395	396	396	396	396	396	393	393	393	395
-Priest Rapids CER for Canada-															
AVWP to BPA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	11	30	30	30	30	30	30	30	30	30	30	30	30	30	28
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCL to BPA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU to BPA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priest Rapids: Reg. Totals	30														
-Wanapum CER for Canada-															
AVWP to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
COPD to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EWEB to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	11	11	11	11	11	11	10	10	10	10	10	10	10	10	11
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PPL to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PSE to BPA	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Wanapum: Regional Totals	29														
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
PSE to BPA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Rock Island P.H. #1: Reg. Totals	11														
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PSE to BPA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Rock Island P.H. #2: Reg. Totals	7														

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Rocky Reach CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CHPD to BPA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
CLKM to BPA	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
DOPD to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PGE to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PPL to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PSE to BPA	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Rocky Reach: Regional Totals	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
-Wells CER for Canada-															
AVWP to BPA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DOPD to BPA	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
OKPD to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PGE to BPA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PPL to BPA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PSE to BPA	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Wells: Regional Totals	25	25	25	25	25	25	24	24	24	24	24	24	24	24	24
-Total CER For Canada-															
Federal System	395	395	395	395	395	395	396	396	396	396	396	393	393	393	395
Public Agencies	55	67	67	67	67	67	67	67	67	67	67	67	67	67	66
Investor-Owned Utilities	77	64	64	64	64	64	63	63	63	63	63	63	63	63	65
Other Entities	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	535	535	535	535	535	535	535	535	535	535	535	532	532	532	535

Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	101	101	101	101	51	51	51	0	0	0	0	0	0	42
BPA To EMPD ChPS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPA To Other Entities	1,660	1,684	1,720	1,335	914	1,167	639	639	870	820	746	694	686	560	1,067
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
BPA To PPL CapS	294	368	302	340	321	285	278	278	268	280	207	240	241	253	286
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	87	84	0	0	0	14
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	46	23	0	0	0	6
BPA To PSE WP3Set	0	101	101	101	101	51	51	51	0	0	0	0	0	0	42
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCPD3 To BPA PwrS(a)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	2,268	2,169	2,325	2,188	2,085	1,927	1,541	1,141	1,001	1,001	1,852	1,854	1,850	1,840	1,821
PPL To BPA S/Pwr/X	56	58	0	0	0	0	0	0	0	0	0	0	0	58	14
PPL To BPA S/N/X	0	0	0	0	0	34	0	0	0	0	0	0	0	0	3
PPL To BPA PkRepl	294	368	302	340	321	285	278	278	268	280	207	240	241	253	286
SUB To BPA PwrS	24	24	24	24	24	24	24	24	24	24	24	0	0	0	20
TPU To BPA PwrX	0	0	0	35	35	35	35	35	35	35	35	35	35	35	26
-Total Contracts Out-															
Federal System	2,063	2,416	2,440	2,067	1,583	1,672	1,109	1,109	1,140	1,252	1,095	948	941	856	1,553
Total Contracts Out	2,063	2,416	2,440	2,067	1,583	1,672	1,109	1,109	1,140	1,252	1,095	948	941	856	1,553
-Total Contracts In-															
Federal System	2,642	2,619	2,650	2,588	2,465	2,305	1,878	1,478	1,328	1,340	2,118	2,128	2,125	2,186	2,170
Total Contracts In	2,642	2,619	2,650	2,588	2,465	2,305	1,878	1,478	1,328	1,340	2,118	2,128	2,125	2,186	2,170

Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	101	101	101	101	51	51	51	0	0	0	0	0	0	42
BPA To Other Entities	254	254	254	54	54	54	4	4	4	4	54	54	54	54	91
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	87	84	0	0	0	14
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	46	22	0	0	0	6
BPA To PPL CapS	238	298	245	276	251	231	226	225	218	227	159	184	184	194	229
BPA To PSE WP3Set	0	101	101	101	101	51	51	51	0	0	0	0	0	0	42
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	1,827	1,824	1,826	1,769	1,769	1,770	1,469	1,069	919	921	1,771	1,771	1,771	1,770	1,600
PPL To BPA S/Pwr/X	56	58	0	0	0	0	0	0	0	0	0	0	0	58	14
PPL To BPA PkRepl	238	298	245	276	251	231	226	225	218	227	159	184	184	194	229
PPL To BPA S/N/X	0	0	0	0	0	34	0	0	0	0	0	0	0	0	3
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	35	35	35	35	35	35	35	35	35	35	35	26
-Total Contracts Out-															
Federal System	600	915	915	720	652	503	420	420	221	382	353	250	251	290	518
Total Contracts Out	600	915	915	720	652	503	420	420	221	382	353	250	251	290	518
-Total Contracts In-															
Federal System	2,122	2,180	2,071	2,080	2,055	2,070	1,730	1,330	1,171	1,183	1,964	1,989	1,990	2,057	1,873
Total Contracts In	2,122	2,180	2,071	2,080	2,055	2,070	1,730	1,330	1,171	1,183	1,964	1,989	1,990	2,057	1,873

Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	101	101	101	101	51	51	51	0	0	0	0	0	0	42
BPA To Other Entities	54	54	54	54	54	54	4	4	4	4	54	54	54	54	41
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
BPA To PPL CapS	183	229	187	211	199	177	173	173	167	174	159	184	184	194	186
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	87	84	0	0	0	14
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	45	24	0	0	0	6
BPA To PSE WP3Set	0	101	101	101	101	51	51	51	0	0	0	0	0	0	42
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	1,769	1,770	1,770	1,744	1,744	1,745	1,444	1,044	894	896	1,746	1,746	1,746	1,745	1,568
PPL To BPA S/Pwr/X	56	58	0	0	0	0	0	0	0	0	0	0	0	58	14
PPL To BPA PkRepl	183	229	187	211	199	177	173	173	167	174	159	184	184	194	186
PPL To BPA S/N/X	0	0	0	0	0	34	0	0	0	0	0	0	0	0	3
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	35	35	35	35	35	35	35	35	35	35	35	26
-Total Contracts Out-															
Federal System	344	645	658	656	600	449	367	367	170	327	354	250	251	290	426
Total Contracts Out	344	645	658	656	600	449	367	367	170	327	354	250	251	290	426
-Total Contracts In-															
Federal System	2,008	2,057	1,957	1,990	1,978	1,991	1,652	1,252	1,095	1,105	1,939	1,964	1,965	2,032	1,797
Total Contracts In	2,008	2,057	1,957	1,990	1,978	1,991	1,652	1,252	1,095	1,105	1,939	1,964	1,965	2,032	1,797

Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	101	101	101	101	51	51	51	0	0	0	0	0	0	42
BPA To Other Entities	54	54	54	54	54	54	4	4	4	4	54	54	54	54	41
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
BPA To PPL CapS	183	229	187	211	199	177	173	173	167	174	159	184	184	194	186
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	87	84	0	0	0	14
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	45	24	0	0	0	6
BPA To PSE WP3Set	0	101	101	101	101	51	51	51	0	0	0	0	0	0	42
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	1,745	1,745	1,745	1,343	1,346	1,345	1,045	1,042	895	896	1,345	1,348	1,346	1,346	1,345
PPL To BPA PkRepl	183	229	187	211	199	177	173	173	167	174	159	184	184	194	186
PPL To BPA S/N/X	0	0	0	0	0	34	0	0	0	0	0	0	0	0	3
PPL To BPA S/Pwr/X	56	58	0	0	0	0	0	0	0	0	0	0	0	58	14
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	35	35	35	35	35	35	35	35	35	35	35	26
-Total Contracts Out-															
Federal System	344	645	658	656	600	449	367	367	170	327	354	250	251	290	426
Total Contracts Out	344	645	658	656	600	449	367	367	170	327	354	250	251	290	426
-Total Contracts In-															
Federal System	1,983	2,032	1,932	1,589	1,580	1,591	1,253	1,250	1,097	1,105	1,538	1,567	1,565	1,632	1,575
Total Contracts In	1,983	2,032	1,932	1,589	1,580	1,591	1,253	1,250	1,097	1,105	1,538	1,567	1,565	1,632	1,575

Table A-17: Capacity Reserves
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Hydro Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-17: Capacity Reserves
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Hydro Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-17: Capacity Reserves
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Hydro Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-17: Capacity Reserves
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Hydro Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Average Energy in Megawatts</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Avg</i>
-Federal Entities-															
Federal Entities	109	126	141	143	133	126	116	116	113	119	117	114	114	107	122
Total Federal Entities	109	126	141	143	133	126	116	116	113	119	117	114	114	107	122
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Total U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
-Direct Service Industry-															
Direct Service Industry	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Total Direct Service Industry	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
-Generating Public Entities-															
Generating Public Entities	1,855	2,212	2,483	2,513	2,477	2,291	2,317	2,310	2,080	1,952	1,731	1,783	1,783	1,855	2,129
Total Generating Public Entities	1,855	2,212	2,483	2,513	2,477	2,291	2,317	2,310	2,080	1,952	1,731	1,783	1,783	1,855	2,129
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	1,000	1,136	1,099	1,049	823	902	872	859	958	1,206	1,119	1,399	1,032	831	1,017
Total Generating Public Entities (Slice)	1,000	1,136	1,099	1,049	823	902	872	859	958	1,206	1,119	1,399	1,032	831	1,017
-Non-Generating Public Entities-															
Non-Generating Public Entities	2,347	2,664	3,020	3,115	2,960	2,607	2,518	2,511	2,421	2,476	2,522	2,516	2,515	2,328	2,624
Total Non-Generating Public Entities	2,347	2,664	3,020	3,115	2,960	2,607	2,518	2,511	2,421	2,476	2,522	2,516	2,515	2,328	2,624
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	600	682	660	630	494	542	523	516	575	724	672	840	620	499	611
Total Non-Generating Public Entities (Slice)	600	682	660	630	494	542	523	516	575	724	672	840	620	499	611
-Investor-Owned Entities-															
Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Total Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	109	126	141	143	133	126	116	116	113	119	117	114	114	107	122
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Direct Service Industry	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Generating Public Entities	2,854	3,348	3,583	3,562	3,300	3,193	3,189	3,170	3,039	3,158	2,850	3,182	2,815	2,686	3,146
Non-Generating Public Entities	2,947	3,346	3,680	3,745	3,454	3,148	3,041	3,027	2,996	3,200	3,194	3,357	3,135	2,827	3,235
Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	6,424	7,261	7,836	7,881	7,317	6,920	6,976	6,943	6,835	7,180	6,906	7,347	6,759	6,228	7,067

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Federal Entities-															
Federal Entities	114	132	146	148	139	131	121	121	118	124	122	119	119	112	127
Total Federal Entities	114	132	146	148	139	131	121	121	118	124	122	119	119	112	127
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Total U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
-Direct Service Industry-															
Direct Service Industry	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Total Direct Service Industry	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
-Generating Public Entities-															
Generating Public Entities	1,949	2,316	2,617	2,632	2,555	2,397	2,139	2,133	2,038	1,782	1,794	1,850	1,850	1,917	2,165
Total Generating Public Entities	1,949	2,316	2,617	2,632	2,555	2,397	2,139	2,133	2,038	1,782	1,794	1,850	1,850	1,917	2,165
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	987	1,124	1,086	1,036	810	889	874	861	1,058	1,313	1,121	1,327	966	832	1,023
Total Generating Public Entities (Slice)	987	1,124	1,086	1,036	810	889	874	861	1,058	1,313	1,121	1,327	966	832	1,023
-Non-Generating Public Entities-															
Non-Generating Public Entities	2,496	2,829	3,193	3,290	3,119	2,761	2,668	2,662	2,574	2,630	2,680	2,675	2,675	2,484	2,783
Total Non-Generating Public Entities	2,496	2,829	3,193	3,290	3,119	2,761	2,668	2,662	2,574	2,630	2,680	2,675	2,675	2,484	2,783
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	592	675	652	622	486	534	525	517	636	789	673	797	580	500	614
Total Non-Generating Public Entities (Slice)	592	675	652	622	486	534	525	517	636	789	673	797	580	500	614
-Investor-Owned Entities-															
Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Total Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	114	132	146	148	139	131	121	121	118	124	122	119	119	112	127
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Direct Service Industry	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Generating Public Entities	2,936	3,440	3,704	3,669	3,364	3,286	3,012	2,994	3,096	3,096	2,914	3,177	2,816	2,749	3,188
Non-Generating Public Entities	3,089	3,504	3,845	3,912	3,606	3,294	3,193	3,179	3,209	3,419	3,353	3,472	3,255	2,984	3,397
Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	6,967	7,832	8,443	8,476	7,854	7,480	7,272	7,240	7,426	7,658	7,450	7,778	7,201	6,770	7,592

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Federal Entities-															
Federal Entities	114	132	147	149	140	131	121	121	118	124	123	120	120	112	128
Total Federal Entities	114	132	147	149	140	131	121	121	118	124	123	120	120	112	128
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Total U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
-Direct Service Industry-															
Direct Service Industry	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Total Direct Service Industry	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
-Generating Public Entities-															
Generating Public Entities	1,953	2,336	2,630	2,640	2,602	2,412	2,151	2,146	2,050	1,794	1,800	1,856	1,856	1,918	2,178
Total Generating Public Entities	1,953	2,336	2,630	2,640	2,602	2,412	2,151	2,146	2,050	1,794	1,800	1,856	1,856	1,918	2,178
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	995	1,132	1,095	1,045	818	897	880	870	994	1,208	1,052	1,349	979	840	1,010
Total Generating Public Entities (Slice)	995	1,132	1,095	1,045	818	897	880	870	994	1,208	1,052	1,349	979	840	1,010
-Non-Generating Public Entities-															
Non-Generating Public Entities	2,523	2,861	3,230	3,323	3,184	2,784	2,691	2,685	2,594	2,651	2,702	2,697	2,697	2,504	2,812
Total Non-Generating Public Entities	2,523	2,861	3,230	3,323	3,184	2,784	2,691	2,685	2,594	2,651	2,702	2,697	2,697	2,504	2,812
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	598	680	658	627	491	539	528	522	597	725	632	810	588	504	606
Total Non-Generating Public Entities (Slice)	598	680	658	627	491	539	528	522	597	725	632	810	588	504	606
-Investor-Owned Entities-															
Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Total Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	114	132	147	149	140	131	121	121	118	124	123	120	120	112	128
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Direct Service Industry	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Generating Public Entities	2,948	3,468	3,725	3,685	3,421	3,309	3,031	3,015	3,043	3,001	2,852	3,205	2,835	2,758	3,188
Non-Generating Public Entities	3,121	3,541	3,888	3,950	3,676	3,323	3,219	3,207	3,190	3,376	3,334	3,507	3,285	3,009	3,418
Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	7,012	7,897	8,507	8,531	7,981	7,531	7,318	7,290	7,355	7,521	7,369	7,841	7,250	6,804	7,613

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Federal Entities-															
Federal Entities	115	133	147	150	140	132	122	121	119	125	123	120	120	113	128
Total Federal Entities	115	133	147	150	140	132	122	121	119	125	123	120	120	113	128
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Total U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
-Direct Service Industry-															
Direct Service Industry	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Total Direct Service Industry	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
-Generating Public Entities-															
Generating Public Entities	1,958	2,340	2,634	2,643	2,606	2,415	2,099	2,093	2,009	1,746	1,754	1,818	1,818	1,879	2,158
Total Generating Public Entities	1,958	2,340	2,634	2,643	2,606	2,415	2,099	2,093	2,009	1,746	1,754	1,818	1,818	1,879	2,158
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	997	1,132	1,095	1,044	817	896	876	866	1,075	1,327	1,073	1,353	983	843	1,028
Total Generating Public Entities (Slice)	997	1,132	1,095	1,044	817	896	876	866	1,075	1,327	1,073	1,353	983	843	1,028
-Non-Generating Public Entities-															
Non-Generating Public Entities	2,563	2,906	3,280	3,382	3,242	2,835	2,740	2,733	2,640	2,698	2,750	2,745	2,745	2,550	2,861
Total Non-Generating Public Entities	2,563	2,906	3,280	3,382	3,242	2,835	2,740	2,733	2,640	2,698	2,750	2,745	2,745	2,550	2,861
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	598	680	657	627	491	538	526	520	645	797	645	812	590	506	617
Total Non-Generating Public Entities (Slice)	598	680	657	627	491	538	526	520	645	797	645	812	590	506	617
-Investor-Owned Entities-															
Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Total Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	115	133	147	150	140	132	122	121	119	125	123	120	120	113	128
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Direct Service Industry	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Generating Public Entities	2,955	3,473	3,729	3,687	3,423	3,312	2,975	2,959	3,084	3,073	2,828	3,171	2,800	2,722	3,186
Non-Generating Public Entities	3,161	3,586	3,937	4,008	3,732	3,373	3,266	3,253	3,286	3,495	3,394	3,557	3,335	3,057	3,478
Investor-Owned Entities	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	7,060	7,947	8,561	8,592	8,041	7,585	7,310	7,280	7,492	7,712	7,406	7,858	7,266	6,817	7,672

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dworshak Small Hydropower	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Elwha Hydro	4	10	11	12	9	9	17	17	9	8	5	8	8	2	9
Glines Hydro	7	14	16	15	14	14	25	25	30	16	11	16	15	4	15
Total NUG Hydro	14	27	31	30	27	26	46	46	42	28	20	28	26	10	27
-NUG: Renewable-															
Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Condon Wind Project	11	13	14	13	13	12	14	14	12	15	11	10	10	10	12
Foote Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Foote Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Foote Creek 4	7	10	12	12	11	8	7	7	5	5	4	4	4	4	7
Klondike Phase 1	8	9	8	8	8	8	9	9	9	9	8	8	8	6	8
Nine Canyon Wind Project	2	3	3	3	2	2	1	1	1	1	1	1	1	1	2
Stateline Wind Project	30	33	29	32	29	29	33	33	33	34	30	30	30	24	31
Total NUG: Renewable	64	77	77	80	74	67	70	70	66	69	57	57	57	50	67
-Total Non-Utility Generating Resources-															
Federal Entities	78	104	108	110	101	93	115	115	109	96	77	85	83	60	95
Total Federal Entities	78	104	108	110	101	93	115	115	109	96	77	85	83	60	95

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dworshak Small Hydropower	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Elwha Hydro	4	10	11	12	9	9	17	17	9	8	5	8	8	2	9
Glines Hydro	7	14	16	15	13	14	25	25	30	16	11	16	15	4	15
Total NUG Hydro	14	27	31	30	26	26	46	46	42	28	20	28	26	10	27
-NUG: Renewable-															
Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Condon Wind Project	11	13	14	13	13	12	14	14	12	15	11	10	10	10	12
Foote Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Foote Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Foote Creek 4	7	10	12	12	11	8	7	7	5	5	4	4	4	4	7
Klondike Phase 1	8	9	8	8	8	8	9	9	9	9	8	8	8	6	8
Nine Canyon Wind Project	2	3	3	3	2	2	1	1	1	1	1	1	1	1	2
Stateline Wind Project	31	33	29	31	29	29	32	32	33	34	30	29	29	23	30
Total NUG: Renewable	64	77	76	79	74	67	69	69	66	68	57	56	56	49	67
-Total Non-Utility Generating Resources-															
Federal Entities	78	104	107	110	100	93	115	115	108	96	76	84	82	59	94
Total Federal Entities	78	104	107	110	100	93	115	115	108	96	76	84	82	59	94

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dworshak Small Hydropower	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Elwha Hydro	4	10	11	12	9	9	17	17	9	8	5	0	0	0	8
Glines Hydro	7	14	16	15	14	14	25	25	30	16	11	0	0	0	13
Total NUG Hydro	14	27	31	30	27	26	46	46	42	28	20	4	4	4	25
-NUG: Renewable-															
Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Condon Wind Project	11	13	14	13	13	12	14	14	12	15	11	10	10	10	12
Foote Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Foote Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Foote Creek 4	7	10	12	12	11	8	7	7	5	5	4	4	4	4	7
Fourmile Hill Geothermal	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Klondike Phase 1	8	9	8	8	8	8	9	9	9	9	8	8	8	6	8
Nine Canyon Wind Project	2	3	3	3	2	2	1	1	1	1	1	1	1	1	2
Stateline Wind Project	30	33	29	31	29	29	32	32	33	34	30	29	29	23	30
Total NUG: Renewable	114	126	126	129	124	117	119	119	116	118	107	106	106	99	117
-Total Non-Utility Generating Resources-															
Federal Entities	128	154	157	160	150	143	165	165	158	146	126	110	110	103	141
Total Federal Entities	128	154	157	160	150	143	165	165	158	146	126	110	110	103	141

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dworshak Small Hydropower	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total NUG Hydro	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-NUG: Renewable-															
Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Condon Wind Project	11	13	14	13	13	12	14	14	12	15	11	10	10	10	12
Foote Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Foote Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Foote Creek 4	7	10	12	12	11	8	7	7	5	5	4	4	4	4	7
Fourmile Hill Geothermal	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Klondike Phase 1	8	9	8	8	8	8	9	9	9	9	8	8	8	6	8
Nine Canyon Wind Project	2	3	3	3	2	2	1	1	1	1	1	1	1	1	2
Stateline Wind Project	30	33	29	31	29	29	32	32	33	34	30	29	29	23	30
Total NUG: Renewable	114	126	126	129	124	117	119	119	116	118	107	106	106	99	117
-Total Non-Utility Generating Resources-															
Federal Entities	117	130	130	133	127	120	123	123	119	122	110	110	110	103	120
Total Federal Entities	117	130	130	133	127	120	123	123	119	122	110	110	110	103	120

2.7.3 HLH SUPPORTING DATA

Monthly Heavy Load Energy

In Megawatt Hours Analysis

For FY 2003-2006

Table A-2: Exports
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total	
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	8,320	4,160	4,160	8,000	24,640	
BPA to AZUS CapS	0	0	0	0	0	0	0	0	0	0	0	965	1,029	1,930	3,924	
BPA to AZUS PwrS	0	0	0	0	0	0	0	0	0	2,570	2,656	385	411	770	6,793	
BPA to BANN CapS	0	0	0	0	0	0	0	0	0	0	0	320	342	641	1,303	
BPA to BANN PwrS	0	0	0	0	0	0	0	0	0	857	885	130	138	259	2,269	
BPA to BART PwrS	18,253	17,640	18,228	20,832	18,816	20,832	10,052	10,080	20,832	20,160	16,926	8,190	8,736	16,380	225,957	
BPA to BCHP CanEnt	218,360	211,032	218,066	218,066	196,963	218,066	191,886	192,420	397,668	384,840	397,668	193,428	206,323	386,856	3,631,643	
BPA to BURB C/N/X	2,993	1,929	1,993	1,993	1,800	1,993	962	964	2,989	3,857	3,986	1,929	2,057	3,857	33,302	
BPA to CLTN CapS	0	0	0	0	0	0	0	0	0	0	0	965	1,029	1,930	3,924	
BPA to CLTN PwrX	0	0	0	0	0	0	0	0	0	2,570	2,656	385	411	770	6,793	
BPA to GLEN C/N/X	3,326	2,143	2,215	2,215	2,001	2,215	1,069	1,072	3,322	4,286	4,429	2,143	2,286	4,286	37,008	
BPA to MSR PwrS	54,162	41,760	56,544	55,726	49,661	33,331	16,370	16,416	33,034	60,000	62,400	31,200	31,200	60,000	601,803	
BPA to Other ECD Entities	26,912	32,712	39,852	39,051	33,857	34,522	15,343	15,343	26,756	27,556	31,349	13,871	14,804	25,241	377,169	
BPA to PASA C/N/X	1,996	1,286	1,329	1,329	1,200	1,329	641	643	1,993	2,571	2,657	1,286	1,371	2,571	22,202	
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848	
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	1,659	1,606	0	0	0	0	3,265	
BPA to PSW Other Entities	226,800	222,240	210,000	124,800	115,200	124,800	62,400	62,400	124,800	120,000	124,800	62,400	62,400	120,000	1,763,040	
BPA to RVSD C/N/X	5,066	0	0	0	0	0	0	0	0	0	4,896	5,059	2,448	2,611	4,896	24,976
BPA to RVSD C/N/X	7,972	1,944	2,009	2,009	1,814	2,009	969	972	0	0	7,961	3,852	4,109	7,704	43,323	
BPA to RVSD CapS	0	3,456	3,571	3,571	3,226	3,571	1,723	1,728	5,059	0	0	0	0	0	25,906	
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	18,972	18,360	0	0	0	0	37,332	
BPA to SPP PwrS	19,440	18,000	18,000	18,720	17,280	18,720	15,600	15,600	31,200	30,000	31,200	15,600	15,600	30,000	294,960	
BPA NW-SW Intertie Losses	9,617	8,772	8,877	6,374	5,812	5,702	2,826	2,828	6,380	7,252	7,382	3,671	3,720	7,116	86,328	
Federal Entities	594,895	562,914	580,684	494,686	447,629	467,091	319,841	320,466	674,664	691,381	713,652	348,933	364,450	686,418	7,267,706	

Table A-2: Exports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	8,320	3,840	4,480	8,000	24,640
BPA to BART PwrS	16,949	16,380	16,926	16,926	15,834	16,926	8,167	8,190	16,926	16,380	16,926	8,190	8,736	16,380	199,836
BPA to BCHP CanEnt	400,289	386,856	399,751	399,751	373,961	399,751	192,891	193,428	399,751	386,856	399,751	193,428	206,323	386,856	4,719,643
BPA to BURB C/N/X	2,993	1,929	1,993	1,993	1,865	1,993	962	964	2,989	3,857	3,986	1,929	2,057	3,857	33,367
BPA to GLEN C/N/X	3,326	2,143	2,215	2,215	2,074	2,215	1,069	1,072	3,322	4,286	4,429	2,143	2,286	4,286	37,081
BPA to MSR PwrS	54,162	41,760	56,544	55,726	51,434	33,331	16,370	16,416	33,034	62,400	62,400	28,800	33,600	60,000	605,977
BPA to Other ECD Entities	28,263	34,272	41,694	40,877	35,455	36,170	16,091	16,091	28,097	28,916	32,872	14,560	15,531	26,511	395,400
BPA to Other PSW Entities	129,600	115,200	124,800	72,800	67,200	75,600	36,400	36,400	70,000	72,800	72,800	33,600	39,200	70,000	1,016,400
BPA to PASA C/N/X	1,996	1,286	1,329	1,329	1,246	1,329	641	643	1,993	2,571	2,657	1,286	1,371	2,571	22,248
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	1,659	1,606	0	0	0	0	3,265
BPA to RVSD C/N/X	5,066	0	0	0	0	0	0	0	0	4,896	5,059	2,448	2,611	4,896	24,976
BPA to RVSD C/N/X	7,972	1,944	2,009	2,009	1,879	2,009	969	972	0	0	7,961	3,852	4,109	7,704	43,388
BPA to RVSD CapS	0	3,456	3,571	3,571	3,341	3,571	1,723	1,728	5,059	0	0	0	0	0	26,021
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	18,972	18,360	0	0	0	0	37,332
BPA to SPP PwrS	19,440	17,280	18,720	18,720	17,280	19,440	15,600	15,600	30,000	31,200	31,200	14,400	16,800	30,000	295,680
BPA NW-SW Intertie Losses	6,662	5,523	6,282	4,697	4,346	4,109	1,989	1,992	4,619	5,615	5,636	2,631	3,005	5,427	62,531
Federal Entities	676,716	628,029	675,834	620,614	575,916	596,444	292,873	293,496	616,421	639,743	657,315	312,713	341,822	629,699	7,557,633

Table A-2: Exports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BART PwrS	16,949	16,380	16,926	16,926	15,288	16,926	8,167	8,190	16,926	16,380	16,926	8,190	8,736	16,380	199,290
BPA to BCHP CanEnt	400,289	386,856	399,751	399,751	361,066	399,751	192,891	193,428	399,751	386,856	399,751	192,600	205,440	385,200	4,703,381
BPA to BURB C/N/X	2,993	1,929	1,993	1,993	1,800	1,993	962	964	2,989	3,857	3,986	1,929	2,057	3,857	33,302
BPA to GLEN C/N/X	3,326	2,143	2,215	2,215	2,001	2,215	1,069	1,072	3,322	4,286	4,429	2,143	2,286	4,286	37,008
BPA to MSR PwrS	54,162	41,760	56,544	55,726	49,661	33,331	16,370	16,416	33,034	62,400	60,000	31,200	33,600	60,000	604,203
BPA to Other ECD Entities	29,384	35,632	43,350	42,497	36,859	37,603	16,729	16,729	29,212	30,062	34,161	15,130	16,139	27,551	411,039
BPA to Other PSW Entities	72,800	70,000	72,800	70,000	67,200	75,600	36,400	36,400	70,000	72,800	70,000	36,400	39,200	70,000	859,600
BPA to PASA C/N/X	1,996	1,286	1,329	1,329	1,200	1,329	641	643	1,993	2,571	2,657	1,286	1,371	2,571	22,202
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	1,659	1,606	0	0	0	0	3,265
BPA to RVSD C/N/X	5,066	0	0	0	0	0	0	0	0	4,896	5,059	2,448	2,611	4,896	24,976
BPA to RVSD C/N/X	7,972	1,944	2,009	2,009	1,814	2,009	969	972	0	0	7,961	3,852	4,109	7,704	43,323
BPA to RVSD CapS	0	3,456	3,571	3,571	3,226	3,571	1,723	1,728	5,059	0	0	0	0	0	25,906
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	18,972	18,360	0	0	0	0	37,332
BPA to SPP PwrS	18,720	18,000	18,720	18,000	17,280	19,440	15,600	15,600	30,000	31,200	30,000	15,600	16,800	30,000	294,960
BPA NW-SW Intertie Losses	4,958	4,167	4,722	4,613	4,266	4,109	1,989	1,992	4,619	5,615	5,230	2,672	2,870	5,187	57,008
Federal Entities	618,614	583,553	623,929	618,630	561,661	597,878	293,511	294,134	617,535	640,888	643,479	315,055	336,932	620,844	7,366,643

Table A-2: Exports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to BART PwrS	16,949	16,380	16,926	16,926	15,288	16,926	8,167	8,190	16,926	16,380	546	0	0	0	149,604
BPA to BCHP CanEnt	398,575	385,200	398,040	398,040	359,520	398,040	192,065	192,600	398,040	385,200	398,040	191,520	204,288	383,040	4,682,208
BPA to BURB C/N/X	2,993	1,929	1,993	1,993	1,800	1,993	962	964	2,989	3,857	3,986	1,929	2,057	3,857	33,302
BPA to GLEN C/N/X	3,326	2,143	2,215	2,215	2,001	2,215	1,069	1,072	3,322	4,286	4,429	2,143	2,286	4,286	37,008
BPA to Other ECD Entities	30,534	37,027	45,047	44,161	38,302	39,077	17,386	17,386	30,360	31,240	35,618	15,779	16,831	28,723	427,471
BPA to Other PSW Entities	87,360	84,000	87,360	84,000	80,640	90,720	43,680	40,320	87,360	87,360	84,000	43,680	47,040	84,000	1,031,520
BPA to PASA C/N/X	1,996	1,286	1,329	1,329	1,200	1,329	641	643	1,993	2,571	2,657	1,286	1,371	2,571	22,202
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	1,659	1,606	0	0	0	0	3,265
BPA to RVSD C/N/X	5,066	0	0	0	0	0	0	0	0	4,896	5,059	2,448	2,611	4,896	24,976
BPA to RVSD C/N/X	7,972	1,944	2,009	2,009	1,814	2,009	969	972	0	0	7,961	3,852	4,109	7,704	43,323
BPA to RVSD CapS	0	3,456	3,571	3,571	3,226	3,571	1,723	1,728	5,059	0	0	0	0	0	25,906
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	18,972	18,360	0	0	0	0	37,332
BPA to SPP PwrS	18,720	18,000	18,720	18,000	17,280	19,440	15,600	14,400	31,200	31,200	30,000	15,600	16,800	30,000	294,960
BPA NW-SW Intertie Losses	3,770	3,334	3,462	3,361	3,179	3,563	1,716	1,617	4,148	4,179	3,359	1,708	1,836	3,316	42,549
Federal Entities	577,260	554,699	580,672	575,605	524,250	578,883	283,980	279,892	602,029	591,135	578,973	281,551	300,941	555,604	6,865,473

Table A-5: Imports
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
ANHM To BPA PwrX	8,640	8,000	8,000	8,320	7,680	8,320	0	0	0	0	0	0	0	0	48,960
BURB To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BURB To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLTN To BPA PwrX	0	1,200	1,200	1,248	1,152	0	0	0	0	0	0	0	0	0	4,800
GLEN To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLEN To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other ISW Entities To BPA	21,600	20,000	20,000	20,800	19,200	20,800	10,400	10,400	0	0	20,800	10,400	10,400	20,000	204,800
Other PSW Entities To BPA	21,600	20,000	20,000	10,400	9,600	10,400	5,200	5,200	10,400	10,000	10,400	5,200	5,200	10,000	153,600
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPLE To BPA PwrS	46,742	64,320	86,120	78,541	55,680	48,630	18,637	18,637	42	7,280	14,061	2,683	2,683	16,840	460,896
PWRX To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	965	1,029	1,930	3,924
PWRX To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	320	342	641	1,303
PWRX To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	965	1,029	1,930	3,924
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPP To BPA PwrS	19,440	18,000	18,000	18,720	17,280	18,720	15,600	15,600	31,200	30,000	31,200	15,600	15,600	30,000	294,960
Federal System	118,022	131,520	153,320	138,029	110,592	106,870	49,837	49,837	41,642	47,280	76,461	36,133	36,283	81,340	1,177,166

Table A-5: Imports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
ANHM To BPA PwrX	8,640	7,680	8,320	8,320	7,680	8,640	0	0	0	0	0	0	0	0	49,280
BURB To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BURB To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLTN To BPA PwrX	0	1,152	1,248	1,248	1,152	0	0	0	0	0	0	0	0	0	4,800
GLEN To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLEN To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other ISW Entities To BPA	21,600	19,200	20,800	20,800	19,200	21,600	10,400	10,400	0	0	20,800	9,600	11,200	20,000	205,600
Other PSW Entities To BPA	10,800	9,600	10,400	0	0	0	0	0	0	0	0	0	0	0	30,800
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPLE To BPA PwrS	46,742	61,747	89,565	78,541	55,680	50,501	18,637	18,637	40	7,571	14,061	2,477	2,890	16,840	463,928
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPP To BPA PwrS	19,440	17,280	18,720	18,720	17,280	19,440	15,600	15,600	30,000	31,200	31,200	14,400	16,800	30,000	295,680
Federal System	107,222	116,659	149,053	127,629	100,992	100,181	44,637	44,637	30,040	38,771	66,061	26,477	30,890	66,840	1,050,088

Table A-5: Imports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
ANHM To BPA PwrX	8,320	8,000	8,320	8,000	7,680	8,640	0	0	0	0	0	0	0	0	48,960
BURB To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BURB To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLEN To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLEN To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other ISW Entities To BPA	20,800	20,000	20,800	20,000	19,200	21,600	10,400	10,400	0	0	20,000	10,400	11,200	20,000	204,800
Other PSW Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPLE To BPA PwrS	45,011	64,320	89,565	75,520	55,680	50,501	18,637	18,637	40	7,571	13,520	2,683	2,890	16,840	461,414
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPP To BPA PwrS	18,720	18,000	18,720	18,000	17,280	19,440	15,600	15,600	30,000	31,200	30,000	15,600	16,800	30,000	294,960
Federal System	92,851	110,320	137,405	121,520	99,840	100,181	44,637	44,637	30,040	38,771	63,520	28,683	30,890	66,840	1,010,134

Table A-5: Imports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BURB To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BURB To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLEN To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLEN To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other ISW Entities To BPA	20,800	20,000	20,800	20,000	19,200	21,600	10,400	9,600	0	0	20,000	10,400	11,200	20,000	204,000
Other PSW Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPLE To BPA PwrS	45,011	64,320	89,565	75,520	55,680	50,501	18,637	17,203	42	7,571	13,520	2,683	2,890	16,840	459,982
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPP To BPA PwrS	18,720	18,000	18,720	18,000	17,280	19,440	15,600	14,400	31,200	31,200	30,000	15,600	16,800	30,000	294,960
Federal System	84,531	102,320	129,085	113,520	92,160	91,541	44,637	41,203	31,242	38,771	63,520	28,683	30,890	66,840	958,942

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Sum</i>
James River Wauna	12,096	11,600	12,400	13,312	11,904	12,896	6,240	6,240	11,232	10,800	11,232	5,616	5,616	10,800	141,984
Total Federal System	12,096	11,600	12,400	13,312	11,904	12,896	6,240	6,240	11,232	10,800	11,232	5,616	5,616	10,800	141,984

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Sum</i>
James River Wauna	12,096	11,136	12,896	13,312	11,904	13,392	6,240	6,240	10,800	11,232	11,232	5,184	6,048	10,800	142,512
Total Federal System	12,096	11,136	12,896	13,312	11,904	13,392	6,240	6,240	10,800	11,232	11,232	5,184	6,048	10,800	142,512

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Sum</i>
James River Wauna	11,648	11,600	12,896	12,800	11,904	13,392	6,240	6,240	10,800	11,232	10,800	5,616	6,048	10,800	142,016
Total Federal System	11,648	11,600	12,896	12,800	11,904	13,392	6,240	6,240	10,800	11,232	10,800	5,616	6,048	10,800	142,016

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Sum</i>
James River Wauna	11,648	11,600	12,896	12,800	11,904	13,392	6,240	5,760	11,232	11,232	10,800	5,616	6,048	10,800	141,968
Total Federal System	11,648	11,600	12,896	12,800	11,904	13,392	6,240	5,760	11,232	11,232	10,800	5,616	6,048	10,800	141,968

**Table A-10: Large Thermal
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
Columbia Generating Station	432,000	400,000	400,000	416,000	384,000	416,000	208,000	208,000	120,774	93,333	416,000	208,000	208,000	400,000	4,310,108
Total Federal System	432,000	400,000	400,000	416,000	384,000	416,000	208,000	208,000	120,774	93,333	416,000	208,000	208,000	400,000	4,310,108

**Table A-10: Large Thermal
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	Total
Columbia Generating Station	432,000	384,000	416,000	416,000	384,000	432,000	208,000	208,000	400,000	416,000	416,000	192,000	224,000	400,000	4,928,000
Total Federal System	432,000	384,000	416,000	416,000	384,000	432,000	208,000	208,000	400,000	416,000	416,000	192,000	224,000	400,000	4,928,000

**Table A-10: Large Thermal
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	Total
Columbia Generating Station	416,000	400,000	416,000	400,000	384,000	432,000	208,000	208,000	154,839	55,467	400,000	208,000	224,000	400,000	4,306,305
Total Federal System	416,000	400,000	416,000	400,000	384,000	432,000	208,000	208,000	154,839	55,467	400,000	208,000	224,000	400,000	4,306,305

**Table A-10: Large Thermal
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	Total
Columbia Generating Station	416,000	400,000	416,000	400,000	384,000	432,000	208,000	192,000	416,000	416,000	400,000	208,000	224,000	400,000	4,912,000
Total Federal System	416,000	400,000	416,000	400,000	384,000	432,000	208,000	192,000	416,000	416,000	400,000	208,000	224,000	400,000	4,912,000

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA CER for CSPE-															
BPA to BPA	2,575	2,281	2,464	2,411	2,274	1,446	0	0	0	0	0	0	0	0	13,451
BPA: Regional Totals	2,575	2,281	2,464	2,411	2,274	1,446	0	0	0	0	0	0	0	0	13,451
-Priest Rapids CER for CSPE-															
AVWP to BPA	7	6	6	6	6	4	0	0	0	0	0	0	0	0	34
COPD to BPA	2	2	2	2	2	1	0	0	0	0	0	0	0	0	11
EWEB to BPA	2	2	2	2	2	1	0	0	0	0	0	0	0	0	10
FGRV to BPA	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3
GCPD to BPA	39	35	37	37	35	22	0	0	0	0	0	0	0	0	205
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
MCMN to BPA	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3
MTFR to BPA	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3
PGE to BPA	15	13	14	14	13	8	0	0	0	0	0	0	0	0	78
PPL to BPA	15	13	14	14	13	8	0	0	0	0	0	0	0	0	78
PSE to BPA	9	8	8	8	8	5	0	0	0	0	0	0	0	0	45
SCL to BPA	9	8	8	8	8	5	0	0	0	0	0	0	0	0	45
TPU to BPA	9	8	8	8	8	5	0	0	0	0	0	0	0	0	45
Priest Rapids: Reg. Totals	107	95	103	100	95	60	0	0	0	0	0	0	0	0	560
-Wanapum CER for CSPE-															
AVWP to BPA	12	10	11	11	10	7	0	0	0	0	0	0	0	0	61
COPD to BPA	4	3	4	4	3	2	0	0	0	0	0	0	0	0	20
EWEB to BPA	3	3	3	3	3	2	0	0	0	0	0	0	0	0	17
FGRV to BPA	1	1	1	1	1	1	0	0	0	0	0	0	0	0	5
GCPD to BPA	52	46	50	49	46	29	0	0	0	0	0	0	0	0	273
MCMN to BPA	1	1	1	1	1	1	0	0	0	0	0	0	0	0	5
MTFR to BPA	1	1	1	1	1	1	0	0	0	0	0	0	0	0	5
PGE to BPA	27	24	26	25	24	15	0	0	0	0	0	0	0	0	140
PPL to BPA	27	24	26	25	24	15	0	0	0	0	0	0	0	0	140
PSE to BPA	15	14	15	14	14	9	0	0	0	0	0	0	0	0	81
Wanapum: Regional Totals	143	127	137	134	126	80	0	0	0	0	0	0	0	0	747
-Rock Island P.H. #1 CER for CSPE-															
CHPD to BPA	10	9	10	10	9	6	0	0	0	0	0	0	0	0	54
PSE to BPA	10	9	10	10	9	6	0	0	0	0	0	0	0	0	54
Rock Island P.H. #1: Reg. Totals	21	18	20	19	18	12	0	0	0	0	0	0	0	0	108
-Rock Island P.H. #2 CER for CSPE-															
CHPD to BPA	5	4	4	4	4	3	0	0	0	0	0	0	0	0	24
PSE to BPA	11	9	10	10	9	6	0	0	0	0	0	0	0	0	55
Rock Island P.H. #2: Reg. Totals	15	13	14	14	13	8	0	0	0	0	0	0	0	0	78

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rocky Reach CER for CSPE-															
AVWP to BPA	8	7	8	8	7	5	0	0	0	0	0	0	0	0	43
CHPD to BPA	43	38	41	41	38	24	0	0	0	0	0	0	0	0	226
CLKM to BPA	66	58	63	62	58	37	0	0	0	0	0	0	0	0	344
DOPD to BPA	8	7	8	7	7	4	0	0	0	0	0	0	0	0	41
PGE to BPA	34	30	33	32	30	19	0	0	0	0	0	0	0	0	179
PPL to BPA	15	13	15	14	13	9	0	0	0	0	0	0	0	0	79
PSE to BPA	111	99	107	104	98	63	0	0	0	0	0	0	0	0	581
Rocky Reach: Regional Totals	286	253	274	268	253	161	0	0	0	0	0	0	0	0	1,495
-Wells CER for CSPE-															
AWWP to BPA	7	6	6	6	6	4	0	0	0	0	0	0	0	0	35
DOPD to BPA	50	44	47	46	44	28	0	0	0	0	0	0	0	0	259
OKPD to BPA	14	13	14	13	13	8	0	0	0	0	0	0	0	0	75
PGE to BPA	38	33	36	35	33	21	0	0	0	0	0	0	0	0	197
PPL to BPA	13	11	12	12	11	7	0	0	0	0	0	0	0	0	67
PSE to BPA	58	51	55	54	51	32	0	0	0	0	0	0	0	0	302
Wells: Regional Totals	179	158	171	167	158	100	0	0	0	0	0	0	0	0	934
-Total CER For CSPE-															
Federal System	2,575	2,281	2,464	2,411	2,274	1,446	0	0	0	0	0	0	0	0	13,451
Public Agencies	255	226	244	238	225	143	0	0	0	0	0	0	0	0	1,330
Investor-Owned Utilities	431	381	412	403	380	242	0	0	0	0	0	0	0	0	2,249
Other Entities	66	58	63	62	58	37	0	0	0	0	0	0	0	0	344
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	3,326	2,946	3,183	3,114	2,937	1,868	0	0	0	0	0	0	0	0	17,374

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-BPA CER for CSPE-															
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for CSPE-															
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wanapum CER for CSPE-															
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for CSPE-															
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for CSPE-															
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rocky Reach CER for CSPE-															
Rocky Reach: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wells CER for CSPE-															
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total CER For CSPE-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	0	0	0	0	0	0	0	0	0						

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-BPA CER for CSPE-															
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for CSPE-															
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wanapum CER for CSPE-															
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for CSPE-															
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for CSPE-															
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rocky Reach CER for CSPE-															
Rocky Reach: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wells CER for CSPE-															
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total CER For CSPE-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	0	0	0	0	0	0	0	0	0						

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-BPA CER for CSPE-															
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for CSPE-															
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wanapum CER for CSPE-															
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for CSPE-															
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for CSPE-															
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rocky Reach CER for CSPE-															
Rocky Reach: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wells CER for CSPE-															
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total CER For CSPE-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	0	0	0	0	0	0	0	0	0						

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Generating Public Entities-															
BPA to GPE	25,781	24,529	23,434	24,919	23,461	25,746	0	0	0	0	0	0	0	0	147,870
Tot. Generating Public Entities	25,781	24,529	23,434	24,919	23,461	25,746	0	0	0	0	0	0	0	0	147,870
-Small & Non-Gen Public Entities-															
BPA to S&NGE	5,406	5,144	4,914	5,225	4,920	5,399	0	0	0	0	0	0	0	0	31,008
Tot. Sml & Non-Gen Pub. Ent.	5,406	5,144	4,914	5,225	4,920	5,399	0	0	0	0	0	0	0	0	31,008
-Investor-Owned Entities-															
BPA to IOU	31,248	29,730	28,403	30,202	28,436	31,206	0	0	0	0	0	0	0	0	179,225
Total Investor-Owned Entities	31,248	29,730	28,403	30,202	28,436	31,206	0	0	0	0	0	0	0	0	179,225
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	25,781	24,529	23,434	24,919	23,461	25,746	0	0	0	0	0	0	0	0	147,870
Sml & Non-Gen Public Agencies	5,406	5,144	4,914	5,225	4,920	5,399	0	0	0	0	0	0	0	0	31,008
Investor-Owned Utilities	31,248	29,730	28,403	30,202	28,436	31,206	0	0	0	0	0	0	0	0	179,225
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	62,435	59,403	56,752	60,346	56,816	62,351	0	0	0	0	0	0	0	0	358,102

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Generating Public Entities-															
BPA to GPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small & Non-Gen Public Entities-															
BPA to S&NGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Sml & Non-Gen Pub. Ent.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
BPA to IOU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small & Non-Gen Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	0	0	0	0	0	0	0	0	0						

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Generating Public Entities-															
BPA to GPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small & Non-Gen Public Entities-															
BPA to S&NGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Sml & Non-Gen Pub. Ent.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
BPA to IOU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small & Non-Gen Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	0	0	0	0	0	0	0	0	0						

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Generating Public Entities-															
BPA to GPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small & Non-Gen Public Entities-															
BPA to S&NGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Sml & Non-Gen Pub. Ent.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
BPA to IOU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small & Non-Gen Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	0	0	0	0	0	0	0	0	0						

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
Supplemental & Entitlement Capacity															
-Deliveries-															
BPA To AVWP SupEntCap	820	792	818	818	739	818	0	0	0	0	0	0	0	0	4,806
BPA To CHPD SupEntCap	2,533	2,448	2,530	2,530	2,285	2,530	0	0	0	0	0	0	0	0	14,855
BPA To CLKM SupEntCap	1,714	1,600	1,600	1,664	1,536	1,664	0	0	0	0	0	0	0	0	9,778
BPA To COPD SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To DOPD SupEntCap	1,714	1,600	1,600	1,664	1,536	1,664	0	0	0	0	0	0	0	0	9,778
BPA To EWEB SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To FGRV SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To GCPD SupEntCap	5,960	5,760	5,952	5,952	5,376	5,952	0	0	0	0	0	0	0	0	34,952
BPA To KITT SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To MCMN SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To MTFR SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To OKPD SupEntCap	820	792	818	818	739	818	0	0	0	0	0	0	0	0	4,806
BPA To PGE SupEntCap	5,141	4,800	4,800	4,992	4,608	4,992	0	0	0	0	0	0	0	0	29,333
BPA To PPL SupEntCap	3,427	3,200	3,200	3,328	3,072	3,328	0	0	0	0	0	0	0	0	19,555
BPA To PSE SupEntCap	7,674	7,200	7,200	7,488	6,912	7,488	0	0	0	0	0	0	0	0	43,962
BPA To SCL SupEntCap	820	792	818	818	739	818	0	0	0	0	0	0	0	0	4,806
BPA To TPU SupEntCap	820	792	818	818	739	818	0	0	0	0	0	0	0	0	4,806
Total Deliveries	31,439	29,776	30,155	30,891	28,282	30,891	0	0	0	0	0	0	0	0	181,434
-Replacement-															
AVWP To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHPD To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLKM To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KITT To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCL To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Total Deliveries-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	12,665	12,184	12,537	12,601	11,414	12,601	0	0	0	0	0	0	0	0	74,002
Investor-Owned Utilities	17,061	15,992	16,018	16,626	15,331	16,626	0	0	0	0	0	0	0	0	97,655
Other Entities	1,714	1,600	1,600	1,664	1,536	1,664	0	0	0	0	0	0	0	0	9,778
Total Deliveries	31,439	29,776	30,155	30,891	28,282	30,891	0	0	0	0	0	0	0	0	181,434
-Total Replacement-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Supplemental & Entitlement Capacity															
-Deliveries-															
Total Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Replacement-															
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Deliveries-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	0	0	0	0	0	0	0	0	0						
-Total Replacement-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0	0	0	0	0	0	0	0	0						

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Supplemental & Entitlement Capacity															
-Deliveries-															
Total Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Replacement-															
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Deliveries-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	0	0	0	0	0	0	0	0	0						
-Total Replacement-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0	0	0	0	0	0	0	0	0						

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Supplemental & Entitlement Capacity															
-Deliveries-															
Total Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Replacement-															
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Deliveries-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	0	0	0	0	0	0	0	0	0						
-Total Replacement-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0	0	0	0	0	0	0	0	0						

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	159,803	154,440	159,588	159,588	144,144	159,588	140,836	141,228	291,871	282,456	291,871	142,236	151,718	284,472	2,663,839
BPA: Regional Totals	159,803	154,440	159,588	159,588	144,144	159,588	140,836	141,228	291,871	282,456	291,871	142,236	151,718	284,472	2,663,839
-Priest Rapids CER for Canada-															
AVWP to BPA	763	738	762	762	689	762	666	668	1,380	1,335	1,380	668	712	1,335	12,620
COPD to BPA	250	242	250	250	226	250	218	219	452	438	452	219	233	438	4,138
EWEB to BPA	213	206	212	212	192	212	186	186	384	372	384	186	198	372	3,517
FGRV to BPA	63	60	62	62	56	62	55	55	113	109	113	55	58	109	1,034
GCPD to BPA	4,568	4,415	4,562	4,562	4,121	4,562	3,983	3,995	8,255	7,989	8,255	3,995	4,261	7,989	75,513
KITT to BPA	50	48	50	50	45	50	44	44	90	88	90	44	47	88	828
MCMN to BPA	63	60	62	62	56	62	55	55	113	109	113	55	58	109	1,034
MTFR to BPA	63	60	62	62	56	62	55	55	113	109	113	55	58	109	1,034
PGE to BPA	1,740	1,681	1,737	1,737	1,569	1,737	1,517	1,521	3,144	3,042	3,144	1,521	1,623	3,042	28,757
PPL to BPA	1,740	1,681	1,737	1,737	1,569	1,737	1,517	1,521	3,144	3,042	3,144	1,521	1,623	3,042	28,757
PSE to BPA	1,001	968	1,000	1,000	903	1,000	873	876	1,809	1,751	1,809	876	934	1,751	16,551
SCL to BPA	1,001	968	1,000	1,000	903	1,000	873	876	1,809	1,751	1,809	876	934	1,751	16,551
TPU to BPA	1,001	968	1,000	1,000	903	1,000	873	876	1,809	1,751	1,809	876	934	1,751	16,551
Priest Rapids: Reg. Totals	12,516	12,096	12,499	12,499	11,290	12,499	10,914	10,944	22,618	21,888	22,618	10,944	11,674	21,888	206,886
-Wanapum CER for Canada-															
AVWP to BPA	990	956	988	988	893	988	863	865	1,788	1,730	1,788	865	923	1,730	16,354
COPD to BPA	326	315	325	325	294	325	284	285	589	570	589	285	304	570	5,385
EWEB to BPA	278	268	277	277	250	277	242	243	501	485	501	243	259	485	4,587
FGRV to BPA	84	82	84	84	76	84	74	74	153	148	153	74	79	148	1,396
GCPD to BPA	4,405	4,257	4,399	4,399	3,974	4,399	3,839	3,850	7,957	7,700	7,957	3,850	4,107	7,700	72,793
MCMN to BPA	84	82	84	84	76	84	74	74	153	148	153	74	79	148	1,396
MTFR to BPA	84	82	84	84	76	84	74	74	153	148	153	74	79	148	1,396
PGE to BPA	2,257	2,181	2,254	2,254	2,036	2,254	1,967	1,972	4,076	3,945	4,076	1,972	2,104	3,945	37,294
PPL to BPA	2,257	2,181	2,254	2,254	2,036	2,254	1,967	1,972	4,076	3,945	4,076	1,972	2,104	3,945	37,294
PSE to BPA	1,303	1,260	1,302	1,302	1,176	1,302	1,136	1,139	2,354	2,278	2,354	1,139	1,215	2,278	21,539
Wanapum: Regional Totals	12,069	11,664	12,053	12,053	10,886	12,053	10,519	10,548	21,799	21,096	21,799	10,548	11,251	21,096	199,434
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	2,363	2,284	2,360	2,360	2,132	2,360	2,059	2,064	4,266	4,128	4,266	2,064	2,202	4,128	39,036
PSE to BPA	2,363	2,284	2,360	2,360	2,132	2,360	2,059	2,064	4,266	4,128	4,266	2,064	2,202	4,128	39,036
Rock Island P.H. #1: Reg. Totals	4,726	4,568	4,720	4,720	4,263	4,720	4,117	4,128	8,532	8,257	8,532	4,128	4,404	8,257	78,073
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	907	876	905	905	818	905	790	792	1,637	1,584	2,182	1,056	1,126	2,112	16,594
PSE to BPA	2,115	2,044	2,112	2,112	1,908	2,112	1,843	1,848	3,819	3,695	3,273	1,584	1,689	3,167	33,322
Rock Island P.H. #2: Reg. Totals	3,022	2,920	3,018	3,018	2,726	3,018	2,632	2,640	5,455	5,279	5,455	2,640	2,815	5,279	49,915

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rocky Reach CER for Canada-															
AVWP to BPA	464	449	464	464	419	464	404	405	837	810	837	405	432	810	7,664
CHPD to BPA	2,418	2,342	2,420	2,420	2,185	2,420	2,107	2,113	4,368	4,227	4,368	2,113	2,254	4,227	39,983
CLKM to BPA	3,676	3,560	3,679	3,679	3,321	3,679	3,204	3,213	6,639	6,425	6,639	3,213	3,427	6,425	60,780
DOPD to BPA	443	429	443	443	400	443	386	387	800	774	800	387	413	774	7,320
PGE to BPA	1,918	1,858	1,920	1,920	1,733	1,920	1,672	1,676	3,464	3,352	3,464	1,676	1,788	3,352	31,711
PPL to BPA	847	820	848	848	765	848	738	740	1,530	1,481	1,530	740	790	1,481	14,006
PSE to BPA	6,218	6,022	6,222	6,222	5,617	6,222	5,418	5,434	11,229	10,867	11,229	5,434	5,796	10,867	102,798
Rocky Reach: Regional Totals	15,984	15,480	15,996	15,996	14,438	15,996	13,929	13,968	28,867	27,936	28,867	13,968	14,899	27,936	264,261
-Wells CER for Canada-															
AVWP to BPA	380	368	380	380	343	380	331	332	685	663	685	332	354	663	6,276
DOPD to BPA	2,848	2,752	2,844	2,844	2,569	2,844	2,476	2,483	5,132	4,966	5,132	2,483	2,649	4,966	46,987
OKPD to BPA	822	795	821	821	742	821	715	717	1,482	1,434	1,482	717	765	1,434	13,570
PGE to BPA	2,169	2,096	2,166	2,166	1,957	2,166	1,886	1,891	3,909	3,783	3,909	1,891	2,017	3,783	35,792
PPL to BPA	740	715	739	739	668	739	644	645	1,334	1,291	1,334	645	688	1,291	12,213
PSE to BPA	3,321	3,209	3,316	3,316	2,995	3,316	2,887	2,895	5,984	5,791	5,984	2,895	3,088	5,791	54,790
Wells: Regional Totals	10,281	9,936	10,267	10,267	9,274	10,267	8,939	8,964	18,526	17,928	18,526	8,964	9,562	17,928	169,628
-Total CER For Canada-															
Federal System	159,803	154,440	159,588	159,588	144,144	159,588	140,836	141,228	291,871	282,456	291,871	142,236	151,718	284,472	2,663,839
Public Agencies	22,335	21,591	22,311	22,311	20,150	22,311	19,460	19,514	40,329	39,028	40,874	19,778	21,096	39,556	370,644
Investor-Owned Utilities	32,587	31,512	32,563	32,563	29,406	32,563	28,386	28,465	58,829	56,931	58,283	28,202	30,082	56,403	536,774
Other Entities	3,676	3,560	3,679	3,679	3,321	3,679	3,204	3,213	6,639	6,425	6,639	3,213	3,427	6,425	60,780
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	218,401	211,104	218,141	218,141	197,021	218,141	191,886	192,420	397,668	384,840	397,668	193,428	206,323	386,856	3,632,036

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	294,350	284,472	293,954	293,954	274,990	293,954	141,913	142,308	294,103	284,616	294,103	142,308	151,795	284,616	3,471,437
BPA: Regional Totals	294,350	284,472	293,954	293,954	274,990	293,954	141,913	142,308	294,103	284,616	294,103	142,308	151,795	284,616	3,471,437
-Priest Rapids CER for Canada-															
AVWP to BPA	1,382	1,335	1,380	1,380	1,291	1,380	665	667	1,380	1,335	1,380	668	712	1,335	16,287
COPD to BPA	453	438	452	452	423	452	218	219	452	438	452	219	233	438	5,340
EWEB to BPA	385	372	384	384	360	384	185	186	384	372	384	186	198	372	4,539
FGRV to BPA	113	109	113	113	106	113	54	55	113	109	113	55	58	109	1,335
GCPD to BPA	8,267	7,989	8,255	8,255	7,723	8,255	3,978	3,993	8,255	7,987	8,255	3,995	4,260	7,989	97,457
KITT to BPA	91	88	90	90	85	90	44	44	90	88	90	44	47	88	1,068
MCMN to BPA	113	109	113	113	106	113	54	55	113	109	113	55	58	109	1,335
MTFR to BPA	113	109	113	113	106	113	54	55	113	109	113	55	58	109	1,335
PGE to BPA	3,148	3,042	3,144	3,144	2,941	3,144	1,515	1,521	3,144	3,042	3,144	1,521	1,622	3,042	37,114
PPL to BPA	3,148	3,042	3,144	3,144	2,941	3,144	1,515	1,521	3,144	3,042	3,144	1,521	1,622	3,042	37,114
PSE to BPA	1,812	1,751	1,809	1,809	1,693	1,809	872	875	1,809	1,751	1,809	876	934	1,751	21,361
SCL to BPA	1,812	1,751	1,809	1,809	1,693	1,809	872	875	1,809	1,751	1,809	876	934	1,751	21,361
TPU to BPA	1,812	1,751	1,809	1,809	1,693	1,809	872	875	1,809	1,751	1,809	876	934	1,751	21,361
Priest Rapids: Reg. Totals	22,648	21,888	22,618	22,618	21,158	22,618	10,899	10,941	22,618	21,882	22,618	10,944	11,670	21,888	267,006
-Wanapum CER for Canada-															
AVWP to BPA	1,790	1,730	1,788	1,788	1,672	1,788	863	865	1,788	1,730	1,788	865	923	1,730	21,104
COPD to BPA	589	570	589	589	551	589	284	285	589	570	589	285	304	570	6,949
EWEB to BPA	502	485	501	501	469	501	242	243	501	485	501	243	259	485	5,920
FGRV to BPA	153	148	153	153	143	153	74	74	153	148	153	74	79	148	1,802
GCPD to BPA	7,967	7,700	7,957	7,957	7,443	7,957	3,839	3,850	7,957	7,700	7,957	3,850	4,107	7,700	93,940
MCMN to BPA	153	148	153	153	143	153	74	74	153	148	153	74	79	148	1,802
MTFR to BPA	153	148	153	153	143	153	74	74	153	148	153	74	79	148	1,802
PGE to BPA	4,082	3,945	4,076	4,076	3,813	4,076	1,967	1,972	4,076	3,945	4,076	1,972	2,104	3,945	48,128
PPL to BPA	4,082	3,945	4,076	4,076	3,813	4,076	1,967	1,972	4,076	3,945	4,076	1,972	2,104	3,945	48,128
PSE to BPA	2,357	2,278	2,354	2,354	2,202	2,354	1,136	1,139	2,354	2,278	2,354	1,139	1,215	2,278	27,796
Wanapum: Regional Totals	21,829	21,096	21,799	21,799	20,393	21,799	10,519	10,548	21,799	21,096	21,799	10,548	11,251	21,096	257,371
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	4,272	4,128	4,266	4,266	3,991	4,266	2,048	2,053	4,243	4,107	4,243	2,053	2,190	4,107	50,234
PSE to BPA	4,272	4,128	4,266	4,266	3,991	4,266	2,048	2,053	4,243	4,107	4,243	2,053	2,190	4,107	50,234
Rock Island P.H. #1: Reg. Totals	8,544	8,257	8,532	8,532	7,982	8,532	4,095	4,107	8,487	8,213	8,487	4,107	4,380	8,213	100,467
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	2,185	2,112	2,182	2,182	2,041	2,182	1,047	1,050	2,170	2,100	2,713	1,313	1,400	2,625	27,304
PSE to BPA	3,277	3,167	3,273	3,273	3,062	3,273	1,571	1,575	3,256	3,151	2,713	1,313	1,400	2,625	36,930
Rock Island P.H. #2: Reg. Totals	5,462	5,279	5,455	5,455	5,103	5,455	2,618	2,625	5,426	5,251	5,426	2,625	2,801	5,251	64,233

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rocky Reach CER for Canada-															
AVWP to BPA	838	810	837	837	783	837	404	405	837	809	837	405	432	810	9,882
CHPD to BPA	4,373	4,227	4,368	4,368	4,086	4,368	2,105	2,112	4,368	4,223	4,368	2,113	2,254	4,227	51,557
CLKM to BPA	6,647	6,425	6,639	6,639	6,211	6,639	3,200	3,210	6,639	6,420	6,639	3,213	3,426	6,425	78,376
DOPD to BPA	801	774	800	800	748	800	385	387	800	773	800	387	413	774	9,439
PGE to BPA	3,468	3,352	3,464	3,464	3,241	3,464	1,670	1,675	3,464	3,350	3,464	1,676	1,788	3,352	40,892
PPL to BPA	1,532	1,481	1,530	1,530	1,431	1,530	738	740	1,530	1,479	1,530	740	789	1,481	18,060
PSE to BPA	11,242	10,867	11,229	11,229	10,505	11,229	5,413	5,429	11,229	10,858	11,229	5,434	5,795	10,867	132,557
Rocky Reach: Regional Totals	28,901	27,936	28,867	28,867	27,005	28,867	13,915	13,957	28,867	27,914	28,867	13,968	14,896	27,936	340,763
-Wells CER for Canada-															
AVWP to BPA	686	663	685	685	641	685	331	332	685	663	685	332	354	663	8,093
DOPD to BPA	5,138	4,966	5,132	5,132	4,801	5,132	2,476	2,483	5,132	4,966	5,132	2,483	2,649	4,966	60,586
OKPD to BPA	1,484	1,434	1,482	1,482	1,386	1,482	715	717	1,482	1,434	1,482	717	765	1,434	17,498
PGE to BPA	3,914	3,783	3,909	3,909	3,657	3,909	1,886	1,891	3,909	3,783	3,909	1,891	2,017	3,783	46,150
PPL to BPA	1,336	1,291	1,334	1,334	1,248	1,334	644	645	1,334	1,291	1,334	645	688	1,291	15,748
PSE to BPA	5,992	5,791	5,984	5,984	5,598	5,984	2,887	2,895	5,984	5,791	5,984	2,895	3,088	5,791	70,647
Wells: Regional Totals	18,551	17,928	18,526	18,526	17,330	18,526	8,939	8,964	18,526	17,928	18,526	8,964	9,562	17,928	218,722
-Total CER For Canada-															
Federal System	294,350	284,472	293,954	293,954	274,990	293,954	141,913	142,308	294,103	284,616	294,103	142,308	151,795	284,616	3,471,437
Public Agencies	40,928	39,556	40,874	40,874	38,237	40,874	19,696	19,757	40,840	39,515	41,383	20,024	21,356	40,048	483,962
Investor-Owned Utilities	58,358	56,403	58,283	58,283	54,523	58,283	28,090	28,174	58,243	56,348	57,700	27,920	29,778	55,839	686,225
Other Entities	6,647	6,425	6,639	6,639	6,211	6,639	3,200	3,210	6,639	6,420	6,639	3,213	3,426	6,425	78,376
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	400,283	386,856	399,751	399,751	373,961	399,751	192,898	193,450	399,826	386,899	399,826	193,464	206,355	386,928	4,719,999

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year**

2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-BPA Canada-															
BPA to BPA	294,499	284,616	294,103	294,103	265,642	294,103	142,487	142,884	295,294	285,768	295,294	142,056	151,526	284,112	3,466,486
BPA: Regional Totals	294,499	284,616	294,103	294,103	265,642	294,103	142,487	142,884	295,294	285,768	295,294	142,056	151,526	284,112	3,466,486
-Priest Rapids CER for Canada-															
AVWP to BPA	1,382	1,335	1,380	1,380	1,246	1,378	657	659	1,362	1,318	1,362	659	703	1,318	16,136
COPD to BPA	453	438	452	452	409	452	215	216	446	432	446	216	230	432	5,290
EWEB to BPA	385	372	384	384	347	384	183	184	379	367	379	184	196	367	4,497
FGRV to BPA	113	109	113	113	102	113	54	54	112	108	112	54	58	108	1,323
GCPD to BPA	8,267	7,989	8,255	8,255	7,457	8,247	3,931	3,942	8,147	7,884	8,147	3,942	4,205	7,884	96,551
KITT to BPA	91	88	90	90	82	90	43	43	89	86	89	43	46	86	1,058
MCMN to BPA	113	109	113	113	102	113	54	54	112	108	112	54	58	108	1,323
MTFR to BPA	113	109	113	113	102	113	54	54	112	108	112	54	58	108	1,323
PGE to BPA	3,148	3,042	3,144	3,144	2,840	3,141	1,497	1,501	3,102	3,002	3,102	1,501	1,601	3,002	36,769
PPL to BPA	3,148	3,042	3,144	3,144	2,840	3,141	1,497	1,501	3,102	3,002	3,102	1,501	1,601	3,002	36,769
PSE to BPA	1,812	1,751	1,809	1,809	1,634	1,807	862	864	1,786	1,728	1,786	864	922	1,728	21,162
SCL to BPA	1,812	1,751	1,809	1,809	1,634	1,807	862	864	1,786	1,728	1,786	864	922	1,728	21,162
TPU to BPA	1,812	1,751	1,809	1,809	1,634	1,807	862	864	1,786	1,728	1,786	864	922	1,728	21,162
Priest Rapids: Reg. Totals	22,648	21,888	22,618	22,618	20,429	22,594	10,770	10,800	22,320	21,600	22,320	10,800	11,520	21,600	264,524
-Wanapum CER for Canada-															
AVWP to BPA	1,790	1,730	1,788	1,788	1,615	1,788	851	853	1,763	1,706	1,763	853	910	1,706	20,903
COPD to BPA	589	570	589	589	532	589	280	281	581	562	581	281	300	562	6,883
EWEB to BPA	502	485	501	501	453	501	239	239	495	479	495	239	255	479	5,863
FGRV to BPA	153	148	153	153	138	153	73	73	151	146	151	73	78	146	1,784
GCPD to BPA	7,967	7,700	7,957	7,957	7,187	7,957	3,787	3,797	7,848	7,595	7,848	3,797	4,051	7,595	93,043
MCMN to BPA	153	148	153	153	138	153	73	73	151	146	151	73	78	146	1,784
MTFR to BPA	153	148	153	153	138	153	73	73	151	146	151	73	78	146	1,784
PGE to BPA	4,082	3,945	4,076	4,076	3,682	4,076	1,940	1,946	4,021	3,891	4,021	1,946	2,075	3,891	47,668
PPL to BPA	4,082	3,945	4,076	4,076	3,682	4,076	1,940	1,946	4,021	3,891	4,021	1,946	2,075	3,891	47,668
PSE to BPA	2,357	2,278	2,354	2,354	2,126	2,354	1,121	1,124	2,322	2,247	2,322	1,124	1,199	2,247	27,530
Wanapum: Regional Totals	21,829	21,096	21,799	21,799	19,690	21,799	10,375	10,404	21,502	20,808	21,502	10,404	11,098	20,808	254,912
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	4,249	4,107	4,243	4,243	3,833	4,243	2,026	2,031	4,198	4,063	4,198	2,031	2,167	4,063	49,695
PSE to BPA	4,249	4,107	4,243	4,243	3,833	4,243	2,026	2,031	4,198	4,063	4,198	2,031	2,167	4,063	49,695
Rock Island P.H. #1: Reg. Totals	8,498	8,213	8,487	8,487	7,666	8,487	4,051	4,063	8,396	8,125	8,396	4,063	4,333	8,125	99,390
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	2,717	2,625	2,713	2,713	2,450	2,713	1,295	1,299	2,684	2,597	2,684	1,299	1,385	2,597	31,772
PSE to BPA	2,717	2,625	2,713	2,713	2,450	2,713	1,295	1,299	2,684	2,597	2,684	1,299	1,385	2,597	31,772
Rock Island P.H. #2: Reg. Totals	5,433	5,251	5,426	5,426	4,901	5,426	2,590	2,597	5,368	5,195	5,368	2,597	2,771	5,195	63,544

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year**

2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rocky Reach CER for Canada-															
AVWP to BPA	838	810	837	837	755	837	399	400	826	800	826	400	427	800	9,792
CHPD to BPA	4,373	4,227	4,368	4,368	3,939	4,366	2,080	2,086	4,311	4,172	4,311	2,086	2,225	4,172	51,086
CLKM to BPA	6,648	6,425	6,639	6,639	5,988	6,637	3,162	3,171	6,554	6,342	6,554	3,171	3,383	6,342	77,658
DOPD to BPA	801	774	800	800	721	799	381	382	789	764	789	382	407	764	9,353
PGE to BPA	3,469	3,352	3,464	3,464	3,124	3,463	1,650	1,655	3,419	3,309	3,419	1,655	1,765	3,309	40,517
PPL to BPA	1,532	1,481	1,530	1,530	1,380	1,529	729	731	1,510	1,462	1,510	731	779	1,462	17,895
PSE to BPA	11,244	10,867	11,229	11,229	10,128	11,226	5,349	5,364	11,085	10,727	11,085	5,364	5,721	10,727	131,344
Rocky Reach: Regional Totals	28,906	27,936	28,867	28,867	26,035	28,858	13,750	13,788	28,495	27,576	28,495	13,788	14,707	27,576	337,645
-Wells CER for Canada-															
AVWP to BPA	686	663	685	685	619	685	327	328	677	655	677	328	350	655	8,022
DOPD to BPA	5,138	4,966	5,132	5,132	4,635	5,132	2,446	2,453	5,070	4,906	5,070	2,453	2,617	4,906	60,055
OKPD to BPA	1,484	1,434	1,482	1,482	1,339	1,482	707	708	1,464	1,417	1,464	708	756	1,417	17,345
PGE to BPA	3,914	3,783	3,909	3,909	3,531	3,909	1,863	1,869	3,862	3,737	3,862	1,869	1,993	3,737	45,746
PPL to BPA	1,336	1,291	1,334	1,334	1,205	1,334	636	638	1,318	1,275	1,318	638	680	1,275	15,610
PSE to BPA	5,992	5,791	5,984	5,984	5,405	5,984	2,853	2,860	5,912	5,721	5,912	2,860	3,051	5,721	70,029
Wells: Regional Totals	18,551	17,928	18,526	18,526	16,733	18,526	8,831	8,856	18,302	17,712	18,302	8,856	9,446	17,712	216,807
-Total CER For Canada-															
Federal System	294,499	284,616	294,103	294,103	265,642	294,103	142,487	142,884	295,294	285,768	295,294	142,056	151,526	284,112	3,466,486
Public Agencies	41,438	40,048	41,383	41,383	37,371	41,367	19,716	19,771	40,859	39,541	40,859	19,771	21,089	39,541	484,135
Investor-Owned Utilities	57,778	55,839	57,700	57,700	52,094	57,685	27,490	27,566	56,970	55,132	56,970	27,566	29,404	55,132	675,027
Other Entities	6,648	6,425	6,639	6,639	5,988	6,637	3,162	3,171	6,554	6,342	6,554	3,171	3,383	6,342	77,658
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	400,363	386,928	399,826	399,826	361,094	399,792	192,855	193,392	399,677	386,784	399,677	192,564	205,402	385,128	4,703,307

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	293,977	284,112	293,582	293,582	265,171	293,582	142,128	142,524	294,550	285,048	294,550	141,444	150,874	282,888	3,458,012
BPA: Regional Totals	293,977	284,112	293,582	293,582	265,171	293,582	142,128	142,524	294,550	285,048	294,550	141,444	150,874	282,888	3,458,012
-Priest Rapids CER for Canada-															
AVWP to BPA	1,363	0	0	0	0	0	0	0	0	0	0	0	0	0	1,363
COPD to BPA	447	0	0	0	0	0	0	0	0	0	0	0	0	0	447
EWEB to BPA	380	0	0	0	0	0	0	0	0	0	0	0	0	0	380
FGRV to BPA	112	0	0	0	0	0	0	0	0	0	0	0	0	0	112
GCPD to BPA	8,158	21,600	22,320	22,320	20,160	22,320	10,691	10,728	22,171	21,424	22,171	10,712	11,424	21,456	247,655
KITT to BPA	89	0	0	0	0	0	0	0	0	0	0	0	0	0	89
MCMN to BPA	112	0	0	0	0	0	0	0	0	0	0	0	0	0	112
MTFR to BPA	112	0	0	0	0	0	0	0	0	0	0	0	0	0	112
PGE to BPA	3,107	0	0	0	0	0	0	0	0	0	0	0	0	0	3,107
PPL to BPA	3,107	0	0	0	0	0	0	0	0	0	0	0	0	0	3,107
PSE to BPA	1,788	0	0	0	0	0	0	0	0	0	0	0	0	0	1,788
SCL to BPA	1,788	0	0	0	0	0	0	0	0	0	0	0	0	0	1,788
TPU to BPA	1,788	0	0	0	0	0	0	0	0	0	0	0	0	0	1,788
Priest Rapids: Reg. Totals	22,350	21,600	22,320	22,320	20,160	22,320	10,691	10,728	22,171	21,424	22,171	10,712	11,424	21,456	261,848
-Wanapum CER for Canada-															
AVWP to BPA	1,766	1,706	1,763	1,763	1,593	1,763	845	847	1,751	1,694	1,751	847	904	1,694	20,687
COPD to BPA	581	562	581	581	524	581	278	279	577	558	577	279	298	558	6,812
EWEB to BPA	495	479	495	495	447	495	237	238	491	475	491	238	253	475	5,803
FGRV to BPA	151	146	151	151	136	151	72	72	149	145	149	72	77	145	1,766
GCPD to BPA	7,859	7,595	7,848	7,848	7,089	7,848	3,761	3,771	7,794	7,542	7,794	3,771	4,023	7,542	92,084
MCMN to BPA	151	146	151	151	136	151	72	72	149	145	149	72	77	145	1,766
MTFR to BPA	151	146	151	151	136	151	72	72	149	145	149	72	77	145	1,766
PGE to BPA	4,026	3,891	4,021	4,021	3,632	4,021	1,927	1,932	3,993	3,864	3,993	1,932	2,061	3,864	47,177
PPL to BPA	4,026	3,891	4,021	4,021	3,632	4,021	1,927	1,932	3,993	3,864	3,993	1,932	2,061	3,864	47,177
PSE to BPA	2,325	2,247	2,322	2,322	2,097	2,322	1,113	1,116	2,306	2,232	2,306	1,116	1,190	2,232	27,247
Wanapum: Regional Totals	21,531	20,808	21,502	21,502	19,421	21,502	10,303	10,332	21,353	20,664	21,353	10,332	11,021	20,664	252,286
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	4,204	4,063	4,198	4,198	3,792	4,198	2,015	2,020	4,175	4,041	4,175	2,020	2,155	4,041	49,294
PSE to BPA	4,204	4,063	4,198	4,198	3,792	4,198	2,015	2,020	4,175	4,041	4,175	2,020	2,155	4,041	49,294
Rock Island P.H. #1: Reg. Totals	8,407	8,125	8,396	8,396	7,584	8,396	4,029	4,041	8,351	8,081	8,351	4,041	4,310	8,081	98,589
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	2,688	2,597	2,684	2,684	2,424	2,684	1,288	1,292	2,669	2,583	2,669	1,292	1,378	2,583	31,516
PSE to BPA	2,688	2,597	2,684	2,684	2,424	2,684	1,288	1,292	2,669	2,583	2,669	1,292	1,378	2,583	31,516
Rock Island P.H. #2: Reg. Totals	5,375	5,195	5,368	5,368	4,848	5,368	2,576	2,583	5,339	5,167	5,339	2,583	2,756	5,167	63,032

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1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in Mwhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rocky Reach CER for Canada-															
AVWP to BPA	827	800	826	826	746	826	395	397	820	793	820	396	423	793	9,689
CHPD to BPA	4,317	4,172	4,311	4,311	3,894	4,311	2,061	2,070	4,278	4,135	4,278	2,068	2,206	4,140	50,552
CLKM to BPA	6,563	6,342	6,554	6,554	5,920	6,554	3,134	3,146	6,503	6,286	6,503	3,143	3,354	6,293	76,848
DOPD to BPA	790	764	789	789	713	789	377	379	783	757	783	379	404	758	9,255
PGE to BPA	3,424	3,309	3,419	3,419	3,089	3,419	1,635	1,642	3,393	3,280	3,393	1,640	1,750	3,283	40,094
PPL to BPA	1,512	1,462	1,510	1,510	1,364	1,510	722	725	1,498	1,449	1,498	724	773	1,450	17,708
PSE to BPA	11,100	10,727	11,085	11,085	10,012	11,085	5,300	5,322	10,998	10,632	10,998	5,316	5,673	10,643	129,973
Rocky Reach: Regional Totals	28,534	27,576	28,495	28,495	25,738	28,495	13,624	13,680	28,272	27,331	28,272	13,666	14,582	27,360	334,120
-Wells CER for Canada-															
AVWP to BPA	678	655	677	677	612	677	323	324	669	647	669	324	345	647	7,925
DOPD to BPA	5,077	4,906	5,070	5,070	4,579	5,070	2,416	2,423	5,008	4,846	5,008	2,423	2,585	4,846	59,328
OKPD to BPA	1,466	1,417	1,464	1,464	1,322	1,464	698	700	1,446	1,400	1,446	700	746	1,400	17,134
PGE to BPA	3,867	3,737	3,862	3,862	3,488	3,862	1,841	1,846	3,815	3,692	3,815	1,846	1,969	3,692	45,192
PPL to BPA	1,320	1,275	1,318	1,318	1,190	1,318	628	630	1,302	1,260	1,302	630	672	1,260	15,421
PSE to BPA	5,920	5,721	5,912	5,912	5,340	5,912	2,818	2,826	5,840	5,651	5,840	2,826	3,014	5,651	69,180
Wells: Regional Totals	18,327	17,712	18,302	18,302	16,531	18,302	8,724	8,748	18,079	17,496	18,079	8,748	9,331	17,496	214,179
-Total CER For Canada-															
Federal System	293,977	284,112	293,582	293,582	265,171	293,582	142,128	142,524	294,550	285,048	294,550	141,444	150,874	282,888	3,458,012
Public Agencies	40,914	48,592	50,211	50,211	45,352	50,211	24,039	24,117	49,841	48,196	49,841	24,098	25,703	48,233	579,559
Investor-Owned Utilities	57,047	46,082	47,618	47,618	43,010	47,618	22,775	22,849	47,221	45,681	47,221	22,841	24,367	45,698	567,646
Other Entities	6,563	6,342	6,554	6,554	5,920	6,554	3,134	3,146	6,503	6,286	6,503	3,143	3,354	6,293	76,848
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	398,501	385,128	397,966	397,966	359,453	397,966	192,076	192,636	398,114	385,211	398,114	191,526	204,298	383,112	4,682,065

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	32,800	32,800	34,112	31,488	17,056	8,528	8,528	0	0	0	0	0	0	165,312
BPA To EMPD ChPS	595	575	593	594	536	593	287	287	594	575	594	287	306	575	6,990
BPA To Other Entities	777,082	802,856	818,456	644,576	404,544	542,256	130,728	130,728	384,056	349,400	365,056	161,956	161,928	241,400	5,915,023
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL CapS	158,208	173,308	160,558	173,056	142,705	148,860	70,087	70,087	155,827	151,286	108,970	64,359	69,310	125,771	1,772,392
BPA To PPL PwrS	46,742	64,320	86,120	78,541	55,680	48,630	18,637	18,637	42	7,280	14,061	2,683	2,683	16,840	460,896
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	34,722	34,946	0	0	0	69,668
BPA To PSE WP3Set	0	32,800	32,800	34,112	31,488	17,056	8,528	8,528	0	0	0	0	0	0	165,312
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCPD3 To BPA PwrS(a)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	987,376	886,000	986,000	952,208	841,728	829,504	331,344	248,144	435,120	418,800	789,136	394,576	394,576	758,800	9,253,312
PPL To BPA PkRepl	13,066	44,299	33,812	22,266	35,572	40,753	9,078	9,042	16,642	19,446	34,103	19,313	21,048	20,417	338,857
PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL To BPA S/Pwr/X	24,192	23,148	0	0	0	0	0	0	0	0	0	0	0	23,148	70,488
SUB To BPA PwrS	10,368	9,600	9,600	9,984	9,216	9,984	4,992	4,992	9,984	9,600	9,984	0	0	0	98,304
TPU To BPA PwrX	0	0	0	14,560	13,440	14,560	7,280	7,280	14,560	14,000	14,560	7,280	7,280	14,000	128,800
-Total Contracts Out-															
Federal System	982,627	1,106,659	1,131,327	964,991	666,442	774,452	236,795	236,795	540,519	543,263	523,627	229,285	234,227	384,585	8,555,593
Total Contracts Out	982,627	1,106,659	1,131,327	964,991	666,442	774,452	236,795	236,795	540,519	543,263	523,627	229,285	234,227	384,585	8,555,593
-Total Contracts In-															
Federal System	1,035,002	963,047	1,029,412	999,018	899,956	894,801	352,694	269,458	476,306	461,846	847,783	421,169	422,904	816,365	9,889,761
Total Contracts In	1,035,002	963,047	1,029,412	999,018	899,956	894,801	352,694	269,458	476,306	461,846	847,783	421,169	422,904	816,365	9,889,761

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	31,488	34,112	34,112	31,488	17,712	8,528	8,528	0	0	0	0	0	0	165,968
BPA To Other Entities	109,512	97,344	105,456	22,256	20,544	23,112	728	728	1,400	1,456	22,256	10,272	11,984	21,400	448,449
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL Caps	128,276	140,520	130,182	140,316	115,707	120,698	56,828	56,828	126,347	122,664	83,544	49,342	53,137	96,424	1,420,811
BPA To PPL PwrS	46,742	61,747	89,565	78,541	55,680	50,501	18,637	18,637	40	7,571	14,061	2,477	2,890	16,840	463,928
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	36,111	34,946	0	0	0	71,057
BPA To PSE WP3Set	0	31,488	34,112	34,112	31,488	17,712	8,528	8,528	0	0	0	0	0	0	165,968
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	807,408	719,248	778,320	736,320	679,296	764,640	305,552	222,352	368,000	383,136	736,736	340,224	396,928	708,400	7,946,560
PPL To BPA PkRepl	10,594	35,918	27,415	18,053	28,842	33,043	7,361	7,331	13,493	15,767	26,146	14,806	16,136	15,653	270,559
PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL To BPA S/Pwr/X	24,192	22,222	0	0	0	0	0	0	0	0	0	0	0	23,148	69,562
TPU To SCL S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	14,560	13,440	15,120	7,280	7,280	14,000	14,560	14,560	6,720	7,840	14,000	129,360
-Total Contracts Out-															
Federal System	284,531	362,587	393,427	309,336	254,907	229,734	93,248	93,248	127,787	167,803	154,807	62,091	68,011	134,664	2,736,181
Total Contracts Out	284,531	362,587	393,427	309,336	254,907	229,734	93,248	93,248	127,787	167,803	154,807	62,091	68,011	134,664	2,736,181
-Total Contracts In-															
Federal System	842,194	777,388	805,735	768,933	721,578	812,803	320,193	236,963	395,493	413,463	777,442	361,750	420,904	761,201	8,416,041
Total Contracts In	842,194	777,388	805,735	768,933	721,578	812,803	320,193	236,963	395,493	413,463	777,442	361,750	420,904	761,201	8,416,041

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	32,800	34,112	32,800	31,488	17,712	8,528	8,528	0	0	0	0	0	0	165,968
BPA To Other Entities	22,256	21,400	22,256	21,400	20,544	23,112	728	728	1,400	1,456	21,400	11,156	11,984	21,400	201,221
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL PwrS	45,011	64,320	89,565	75,520	55,680	50,501	18,637	18,637	40	7,571	13,520	2,683	2,890	16,840	461,414
BPA To PPL CapS	98,345	107,732	99,806	107,575	88,709	92,535	43,568	43,568	96,866	94,043	83,544	49,342	53,137	96,424	1,155,193
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	36,111	33,602	0	0	0	69,713
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PSE WP3Set	0	32,800	34,112	32,800	31,488	17,712	8,528	8,528	0	0	0	0	0	0	165,968
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	736,320	708,400	736,320	698,000	669,696	753,840	300,352	217,152	358,000	372,736	698,800	363,168	391,104	698,400	7,702,288
PPL To BPA S/Pwr/X	23,296	23,148	0	0	0	0	0	0	0	0	0	0	0	0	69,592
PPL To BPA PkRepl	8,122	27,537	21,018	13,841	22,112	25,333	5,643	5,621	10,345	12,088	26,146	14,806	16,136	15,653	224,402
PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	14,000	13,440	15,120	7,280	7,280	14,000	14,560	14,000	7,280	7,840	14,000	128,800
-Total Contracts Out-															
Federal System	165,613	259,052	279,851	270,095	227,909	201,572	79,989	79,989	98,306	139,181	152,066	63,181	68,011	134,664	2,219,477
Total Contracts Out	165,613	259,052	279,851	270,095	227,909	201,572	79,989	79,989	98,306	139,181	152,066	63,181	68,011	134,664	2,219,477
-Total Contracts In-															
Federal System	767,738	759,085	757,338	725,841	705,248	794,293	313,275	230,053	382,345	399,384	738,946	385,254	415,080	751,201	8,125,082
Total Contracts In	767,738	759,085	757,338	725,841	705,248	794,293	313,275	230,053	382,345	399,384	738,946	385,254	415,080	751,201	8,125,082

Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	32,800	34,112	32,800	31,488	17,712	8,528	7,872	0	0	0	0	0	0	165,312
BPA To Other Entities	22,256	21,400	22,256	21,400	20,544	23,112	728	672	1,456	1,456	21,400	11,128	11,984	21,400	201,193
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL Caps	98,345	107,732	99,806	107,575	88,709	92,535	43,568	43,568	96,866	94,043	83,544	49,342	53,137	96,424	1,155,193
BPA To PPL PwrS	45,011	64,320	89,565	75,520	55,680	50,501	18,637	17,203	42	7,571	13,520	2,683	2,890	16,840	459,982
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	36,111	33,602	0	0	0	69,713
BPA To PSE WP3Set	0	32,800	34,112	32,800	31,488	17,712	8,528	7,872	0	0	0	0	0	0	165,312
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	725,920	698,400	725,920	538,000	516,096	581,040	217,360	200,640	372,320	372,736	538,800	279,968	301,504	538,400	6,607,104
PPL To BPA PkRepl	8,122	27,537	21,018	13,841	22,112	25,333	5,643	5,621	10,345	12,088	26,146	14,806	16,136	15,653	224,402
PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL To BPA S/Pwr/X	23,296	23,148	0	0	0	0	0	0	0	0	0	0	0	23,148	69,592
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	14,000	13,440	15,120	7,280	6,720	14,560	14,560	14,000	7,280	7,840	14,000	128,800
-Total Contracts Out-															
Federal System	165,613	259,052	279,851	270,095	227,909	201,572	79,989	77,187	98,363	139,181	152,066	63,153	68,011	134,664	2,216,705
Total Contracts Out	165,613	259,052	279,851	270,095	227,909	201,572	79,989	77,187	98,363	139,181	152,066	63,153	68,011	134,664	2,216,705
-Total Contracts In-															
Federal System	757,338	749,085	746,938	565,841	551,648	621,493	230,283	212,981	397,225	399,384	578,946	302,054	325,480	591,201	7,029,898
Total Contracts In	757,338	749,085	746,938	565,841	551,648	621,493	230,283	212,981	397,225	399,384	578,946	302,054	325,480	591,201	7,029,898

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	49,772	55,413	62,669	64,060	53,761	55,892	25,487	25,487	51,617	52,108	54,287	24,990	26,682	47,626	649,850
Total Federal Entities	49,772	55,413	62,669	64,060	53,761	55,892	25,487	25,487	51,617	52,108	54,287	24,990	26,682	47,626	649,850
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	42,370	9,790	6,078	6,116	5,007	15,721	44,887	44,910	114,995	117,573	139,834	58,506	59,630	78,679	744,095
Total U.S. Bureau of Reclamation	42,370	9,790	6,078	6,116	5,007	15,721	44,887	44,910	114,995	117,573	139,834	58,506	59,630	78,679	744,095
-Direct Service Industry-															
Direct Service Industry	14,688	13,600	13,600	14,144	13,056	14,144	7,072	7,072	14,144	13,600	14,144	7,072	7,072	13,600	167,008
Total Direct Service Industry	14,688	13,600	13,600	14,144	13,056	14,144	7,072	7,072	14,144	13,600	14,144	7,072	7,072	13,600	167,008
-Generating Public Entities-															
Generating Public Entities	822,480	946,485	1,093,259	1,112,181	986,401	1,000,036	494,824	494,824	918,373	820,785	776,061	382,470	407,274	810,675	11,066,129
Total Generating Public Entities	822,480	946,485	1,093,259	1,112,181	986,401	1,000,036	494,824	494,824	918,373	820,785	776,061	382,470	407,274	810,675	11,066,129
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	498,437	537,358	550,124	506,044	357,311	412,773	188,830	189,436	464,721	577,281	543,203	332,630	254,254	395,199	5,807,602
Total Generating Public Entities (Slice)	498,437	537,358	550,124	506,044	357,311	412,773	188,830	189,436	464,721	577,281	543,203	332,630	254,254	395,199	5,807,602
-Non-Generating Public Entities-															
Non-Generating Public Entities	1,081,537	1,175,367	1,370,305	1,419,612	1,210,451	1,171,598	552,261	552,261	1,104,551	1,079,309	1,157,387	555,325	590,869	1,040,909	14,061,742
Total Non-Generating Public Entities	1,081,537	1,175,367	1,370,305	1,419,612	1,210,451	1,171,598	552,261	552,261	1,104,551	1,079,309	1,157,387	555,325	590,869	1,040,909	14,061,742
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	299,287	322,657	330,322	303,854	214,547	247,850	113,383	113,747	279,042	346,628	326,166	199,728	152,667	237,297	3,487,174
Total Non-Generating Public Entities (Slice)	299,287	322,657	330,322	303,854	214,547	247,850	113,383	113,747	279,042	346,628	326,166	199,728	152,667	237,297	3,487,174
-Investor-Owned Entities-															
Investor-Owned Entities	165,024	152,800	152,800	158,912	146,688	158,912	79,456	79,456	158,912	152,800	158,912	79,456	79,456	152,800	1,876,384
Total Investor-Owned Entities	165,024	152,800	152,800	158,912	146,688	158,912	79,456	79,456	158,912	152,800	158,912	79,456	79,456	152,800	1,876,384
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
-Power Sales Contracts-															
Federal System	49,772	55,413	62,669	64,060	53,761	55,892	25,487	25,487	51,617	52,108	54,287	24,990	26,682	47,626	649,850
U.S. Bureau of Reclamation	42,370	9,790	6,078	6,116	5,007	15,721	44,887	44,910	114,995	117,573	139,834	58,506	59,630	78,679	744,095
Direct Service Industry	14,688	13,600	13,600	14,144	13,056	14,144	7,072	7,072	14,144	13,600	14,144	7,072	7,072	13,600	167,008
Generating Public Entities	1,320,918	1,483,843	1,643,383	1,618,225	1,343,712	1,412,809	683,654	684,260	1,383,094	1,398,066	1,319,263	715,100	661,529	1,205,874	16,873,732
Non-Generating Public Entities	1,380,823	1,498,023	1,700,627	1,723,466	1,424,999	1,419,448	665,644	666,008	1,383,593	1,425,937	1,483,553	755,053	743,536	1,278,206	17,548,916
Investor-Owned Entities	165,024	152,800	152,800	158,912	146,688	158,912	79,456	79,456	158,912	152,800	158,912	79,456	79,456	152,800	1,876,384
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	2,973,595	3,213,469	3,579,157	3,584,923	2,987,222	3,076,925	1,506,199	1,507,193	3,106,356	3,160,083	3,169,994	1,640,176	1,577,904	2,776,786	37,859,984

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	51,813	56,735	65,826	66,363	55,976	58,870	26,503	26,503	52,866	54,926	56,398	26,042	27,805	49,652	676,281
Total Federal Entities	51,813	56,735	65,826	66,363	55,976	58,870	26,503	26,503	52,866	54,926	56,398	26,042	27,805	49,652	676,281
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	42,370	9,398	6,321	6,116	5,021	16,102	44,887	44,910	111,809	120,928	139,834	55,302	62,834	78,679	744,510
Total U.S. Bureau of Reclamation	42,370	9,398	6,321	6,116	5,021	16,102	44,887	44,910	111,809	120,928	139,834	55,302	62,834	78,679	744,510
-Direct Service Industry-															
Direct Service Industry	151,200	134,400	145,600	145,600	134,400	151,200	72,800	72,800	140,000	145,600	145,600	67,200	78,400	140,000	1,724,800
Total Direct Service Industry	151,200	134,400	145,600	145,600	134,400	151,200	72,800	72,800	140,000	145,600	145,600	67,200	78,400	140,000	1,724,800
-Generating Public Entities-															
Generating Public Entities	865,177	980,134	1,163,631	1,161,996	1,042,747	1,058,872	458,411	458,411	888,715	767,055	802,282	397,194	424,634	836,564	11,305,821
Total Generating Public Entities	865,177	980,134	1,163,631	1,161,996	1,042,747	1,058,872	458,411	458,411	888,715	767,055	802,282	397,194	424,634	836,564	11,305,821
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	493,611	530,044	546,699	500,725	351,501	410,247	189,116	189,754	504,234	622,301	544,017	312,885	239,198	395,731	5,830,063
Total Generating Public Entities (Slice)	493,611	530,044	546,699	500,725	351,501	410,247	189,116	189,754	504,234	622,301	544,017	312,885	239,198	395,731	5,830,063
-Non-Generating Public Entities-															
Non-Generating Public Entities	1,149,522	1,238,015	1,459,303	1,499,233	1,289,595	1,250,278	585,001	585,001	1,163,752	1,155,577	1,229,164	588,219	629,564	1,109,756	14,931,979
Total Non-Generating Public Entities	1,149,522	1,238,015	1,459,303	1,499,233	1,289,595	1,250,278	585,001	585,001	1,163,752	1,155,577	1,229,164	588,219	629,564	1,109,756	14,931,979
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	296,389	318,265	328,265	300,660	211,058	246,333	113,555	113,938	302,767	373,660	326,655	187,871	143,626	237,616	3,500,660
Total Non-Generating Public Entities (Slice)	296,389	318,265	328,265	300,660	211,058	246,333	113,555	113,938	302,767	373,660	326,655	187,871	143,626	237,616	3,500,660
-Investor-Owned Entities-															
Investor-Owned Entities	165,024	146,688	158,912	158,912	146,688	165,024	79,456	79,456	152,800	158,912	158,912	73,344	85,568	152,800	1,882,496
Total Investor-Owned Entities	165,024	146,688	158,912	158,912	146,688	165,024	79,456	79,456	152,800	158,912	158,912	73,344	85,568	152,800	1,882,496
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
-Power Sales Contracts-															
Federal System	51,813	56,735	65,826	66,363	55,976	58,870	26,503	26,503	52,866	54,926	56,398	26,042	27,805	49,652	676,281
U.S. Bureau of Reclamation	42,370	9,398	6,321	6,116	5,021	16,102	44,887	44,910	111,809	120,928	139,834	55,302	62,834	78,679	744,510
Direct Service Industry	151,200	134,400	145,600	145,600	134,400	151,200	72,800	72,800	140,000	145,600	145,600	67,200	78,400	140,000	1,724,800
Generating Public Entities	1,358,788	1,510,178	1,710,330	1,662,720	1,394,247	1,469,119	647,528	648,166	1,392,949	1,389,355	1,346,299	710,078	663,832	1,232,295	17,135,884
Non-Generating Public Entities	1,445,911	1,556,280	1,787,569	1,799,893	1,500,653	1,496,610	698,556	698,939	1,466,519	1,529,238	1,555,819	776,091	773,190	1,347,373	18,432,638
Investor-Owned Entities	165,024	146,688	158,912	158,912	146,688	165,024	79,456	79,456	152,800	158,912	158,912	73,344	85,568	152,800	1,882,496
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	3,215,106	3,413,679	3,874,558	3,839,604	3,236,985	3,356,926	1,569,730	1,570,774	3,316,943	3,398,959	3,402,862	1,708,057	1,691,629	3,000,799	40,596,608

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	51,217	57,825	66,084	65,720	56,240	59,083	26,599	26,599	53,063	55,114	55,860	26,546	28,343	49,852	678,148
Total Federal Entities	51,217	57,825	66,084	65,720	56,240	59,083	26,599	26,599	53,063	55,114	55,860	26,546	28,343	49,852	678,148
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	41,182	9,790	6,321	5,880	5,007	16,102	44,887	44,910	111,809	120,928	136,207	58,506	62,834	78,679	743,041
Total U.S. Bureau of Reclamation	41,182	9,790	6,321	5,880	5,007	16,102	44,887	44,910	111,809	120,928	136,207	58,506	62,834	78,679	743,041
-Direct Service Industry-															
Direct Service Industry	145,600	140,000	145,600	140,000	134,400	151,200	72,800	72,800	140,000	145,600	140,000	72,800	78,400	140,000	1,719,200
Total Direct Service Industry	145,600	140,000	145,600	140,000	134,400	151,200	72,800	72,800	140,000	145,600	140,000	72,800	78,400	140,000	1,719,200
-Generating Public Entities-															
Generating Public Entities	856,432	999,927	1,169,466	1,153,243	1,033,762	1,065,435	461,170	461,170	894,237	772,054	796,273	403,304	430,298	837,016	11,333,787
Total Generating Public Entities	856,432	999,927	1,169,466	1,153,243	1,033,762	1,065,435	461,170	461,170	894,237	772,054	796,273	403,304	430,298	837,016	11,333,787
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	494,882	536,015	550,412	501,659	345,005	413,810	190,296	191,485	479,308	578,539	506,170	319,883	242,213	399,051	5,748,728
Total Generating Public Entities (Slice)	494,882	536,015	550,412	501,659	345,005	413,810	190,296	191,485	479,308	578,539	506,170	319,883	242,213	399,051	5,748,728
-Non-Generating Public Entities-															
Non-Generating Public Entities	1,153,650	1,262,275	1,476,890	1,503,227	1,302,045	1,261,952	590,349	590,349	1,173,763	1,165,578	1,229,675	599,196	639,379	1,119,362	15,067,688
Total Non-Generating Public Entities	1,153,650	1,262,275	1,476,890	1,503,227	1,302,045	1,261,952	590,349	590,349	1,173,763	1,165,578	1,229,675	599,196	639,379	1,119,362	15,067,688
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	297,152	321,850	330,495	301,221	207,158	248,472	114,263	114,977	287,801	347,384	303,930	192,073	145,437	239,610	3,451,823
Total Non-Generating Public Entities (Slice)	297,152	321,850	330,495	301,221	207,158	248,472	114,263	114,977	287,801	347,384	303,930	192,073	145,437	239,610	3,451,823
-Investor-Owned Entities-															
Investor-Owned Entities	158,912	152,800	158,912	152,800	146,688	165,024	79,456	79,456	152,800	158,912	152,800	79,456	85,568	152,800	1,876,384
Total Investor-Owned Entities	158,912	152,800	158,912	152,800	146,688	165,024	79,456	79,456	152,800	158,912	152,800	79,456	85,568	152,800	1,876,384
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
-Power Sales Contracts-															
Federal System	51,217	57,825	66,084	65,720	56,240	59,083	26,599	26,599	53,063	55,114	55,860	26,546	28,343	49,852	678,148
U.S. Bureau of Reclamation	41,182	9,790	6,321	5,880	5,007	16,102	44,887	44,910	111,809	120,928	136,207	58,506	62,834	78,679	743,041
Direct Service Industry	145,600	140,000	145,600	140,000	134,400	151,200	72,800	72,800	140,000	145,600	140,000	72,800	78,400	140,000	1,719,200
Generating Public Entities	1,351,314	1,535,942	1,719,879	1,654,901	1,378,767	1,479,245	651,466	652,654	1,373,545	1,350,593	1,302,443	723,187	672,511	1,236,067	17,082,514
Non-Generating Public Entities	1,450,802	1,584,125	1,807,385	1,804,448	1,509,203	1,510,424	704,613	705,326	1,461,563	1,512,961	1,533,605	791,269	784,815	1,358,972	18,519,510
Investor-Owned Entities	158,912	152,800	158,912	152,800	146,688	165,024	79,456	79,456	152,800	158,912	152,800	79,456	85,568	152,800	1,876,384
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	3,199,027	3,480,481	3,904,181	3,823,750	3,230,306	3,381,079	1,579,820	1,581,746	3,292,780	3,344,109	3,320,916	1,751,765	1,712,471	3,016,369	40,618,796

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	51,425	58,067	66,342	65,986	56,505	59,296	26,274	26,274	54,065	55,302	56,067	26,677	28,483	50,051	680,816
Total Federal Entities	51,425	58,067	66,342	65,986	56,505	59,296	26,274	26,274	54,065	55,302	56,067	26,677	28,483	50,051	680,816
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	41,182	9,790	6,321	5,880	5,007	16,102	44,887	42,103	114,995	120,928	136,207	58,506	62,834	78,679	743,421
Total U.S. Bureau of Reclamation	41,182	9,790	6,321	5,880	5,007	16,102	44,887	42,103	114,995	120,928	136,207	58,506	62,834	78,679	743,421
-Direct Service Industry-															
Direct Service Industry	145,600	140,000	145,600	140,000	134,400	151,200	72,800	67,200	145,600	145,600	140,000	72,800	78,400	140,000	1,719,200
Total Direct Service Industry	145,600	140,000	145,600	140,000	134,400	151,200	72,800	67,200	145,600	145,600	140,000	72,800	78,400	140,000	1,719,200
-Generating Public Entities-															
Generating Public Entities	859,109	1,002,158	1,171,430	1,155,257	1,035,519	1,067,251	445,781	445,781	885,892	752,516	778,488	395,422	421,783	822,457	11,238,845
Total Generating Public Entities	859,109	1,002,158	1,171,430	1,155,257	1,035,519	1,067,251	445,781	445,781	885,892	752,516	778,488	395,422	421,783	822,457	11,238,845
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	495,427	535,958	550,217	501,130	344,705	413,556	189,642	188,550	513,933	628,057	516,967	320,852	243,084	400,440	5,842,517
Total Generating Public Entities (Slice)	495,427	535,958	550,217	501,130	344,705	413,556	189,642	188,550	513,933	628,057	516,967	320,852	243,084	400,440	5,842,517
-Non-Generating Public Entities-															
Non-Generating Public Entities	1,171,773	1,282,207	1,500,005	1,530,079	1,325,383	1,284,957	597,029	595,606	1,204,773	1,186,483	1,251,652	609,932	650,830	1,139,997	15,330,705
Total Non-Generating Public Entities	1,171,773	1,282,207	1,500,005	1,530,079	1,325,383	1,284,957	597,029	595,606	1,204,773	1,186,483	1,251,652	609,932	650,830	1,139,997	15,330,705
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	297,479	321,816	330,378	300,903	206,978	248,320	113,870	113,215	308,591	377,117	310,413	192,656	145,960	240,444	3,508,138
Total Non-Generating Public Entities (Slice)	297,479	321,816	330,378	300,903	206,978	248,320	113,870	113,215	308,591	377,117	310,413	192,656	145,960	240,444	3,508,138
-Investor-Owned Entities-															
Investor-Owned Entities	158,912	152,800	158,912	152,800	146,688	165,024	79,456	73,344	158,912	158,912	152,800	79,456	85,568	152,800	1,876,384
Total Investor-Owned Entities	158,912	152,800	158,912	152,800	146,688	165,024	79,456	73,344	158,912	158,912	152,800	79,456	85,568	152,800	1,876,384
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	51,425	58,067	66,342	65,986	56,505	59,296	26,274	26,274	54,065	55,302	56,067	26,677	28,483	50,051	680,816
U.S. Bureau of Reclamation	41,182	9,790	6,321	5,880	5,007	16,102	44,887	42,103	114,995	120,928	136,207	58,506	62,834	78,679	743,421
Direct Service Industry	145,600	140,000	145,600	140,000	134,400	151,200	72,800	67,200	145,600	145,600	140,000	72,800	78,400	140,000	1,719,200
Generating Public Entities	1,354,536	1,538,116	1,721,647	1,656,387	1,380,224	1,480,807	635,423	634,331	1,399,825	1,380,572	1,295,455	716,274	664,867	1,222,897	17,081,362
Non-Generating Public Entities	1,469,252	1,604,023	1,830,383	1,830,982	1,532,361	1,533,277	710,899	708,820	1,513,364	1,563,600	1,562,065	802,587	796,790	1,380,441	18,838,844
Investor-Owned Entities	158,912	152,800	158,912	152,800	146,688	165,024	79,456	73,344	158,912	158,912	152,800	79,456	85,568	152,800	1,876,384
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	3,220,907	3,502,795	3,929,206	3,852,035	3,255,184	3,405,706	1,569,739	1,552,073	3,386,761	3,424,915	3,342,594	1,756,301	1,716,943	3,024,869	40,940,024

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	432	400	400	416	384	416	208	208	416	400	416	208	208	400	4,912
Dworshak Small Hydropower	1,136	1,052	1,052	1,094	1,010	1,094	547	547	1,094	1,052	1,094	547	547	1,052	12,919
Elwha Hydro	1,586	4,027	4,584	5,057	3,507	3,703	3,531	3,531	3,848	3,526	2,202	1,731	1,731	895	43,458
Glines Hydro	2,864	6,028	6,726	6,314	5,379	5,638	5,285	5,285	12,801	6,452	4,317	3,367	3,367	1,533	75,355
Total NUG Hydro	6,018	11,507	12,763	12,881	10,280	10,851	9,571	9,571	18,159	11,430	8,030	5,852	5,852	3,880	136,644
-NUG: Renewable-															
Ashland Solar Project	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
Condon Wind Project	4,838	5,320	5,480	5,366	4,800	4,992	2,891	2,891	5,158	5,840	4,410	2,142	2,142	4,040	60,312
Foote Creek 1	2,419	3,320	4,039	4,409	3,686	2,995	1,206	1,206	1,913	1,640	1,373	686	686	1,520	31,098
Foote Creek 2	302	400	520	541	461	374	146	146	208	200	166	83	83	200	3,830
Foote Creek 4	2,808	3,880	4,720	5,117	4,339	3,494	1,394	1,394	2,246	1,920	1,581	811	811	1,760	36,275
Klondike Phase 1	3,499	3,520	3,120	3,453	2,995	3,245	1,789	1,789	3,661	3,640	3,328	1,643	1,643	2,480	39,805
Nine Canyon Wind Project	668	1,082	1,091	1,250	949	682	293	293	585	537	408	222	222	409	8,691
Stateline Wind Project	13,078	13,116	11,740	13,116	11,305	12,247	6,804	6,804	13,797	13,738	12,587	6,199	6,199	9,449	150,177
Total NUG: Renewable	27,615	30,638	30,711	33,252	28,536	28,031	14,522	14,522	27,571	27,517	23,854	11,788	11,788	19,860	330,204
-Total Non-Utility Generating Resources-															
Federal Entities	33,632	42,146	43,473	46,133	38,816	38,882	24,093	24,093	45,730	38,946	31,884	17,640	17,640	23,740	466,848
Total Federal Entities	33,632	42,146	43,473	46,133	38,816	38,882	24,093	24,093	45,730	38,946	31,884	17,640	17,640	23,740	466,848

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	432	384	416	416	384	432	208	208	400	416	416	192	224	400	4,928
Dworshak Small Hydropower	1,136	1,010	1,094	1,094	1,010	1,136	547	547	1,052	1,094	1,094	505	589	1,052	12,961
Elwha Hydro	1,586	4,027	4,584	5,057	3,507	3,703	3,531	3,531	3,848	3,526	2,202	1,731	1,731	895	43,458
Glines Hydro	2,864	6,028	6,726	6,314	5,379	5,638	5,285	5,285	12,801	6,452	4,317	3,367	3,367	1,533	75,355
Total NUG Hydro	6,018	11,449	12,821	12,881	10,280	10,909	9,571	9,571	18,101	11,488	8,030	5,794	5,910	3,880	136,702
-NUG: Renewable-															
Ashland Solar Project	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
Condon Wind Project	4,838	5,107	5,699	5,366	4,800	5,184	2,891	2,891	4,960	6,074	4,410	1,978	2,307	4,040	60,546
Foote Creek 1	2,419	3,187	4,201	4,409	3,686	3,110	1,206	1,206	1,840	1,705	1,373	634	739	1,520	31,234
Foote Creek 2	302	384	541	541	461	389	146	146	200	208	166	77	90	200	3,850
Foote Creek 4	2,808	3,725	4,909	5,117	4,339	3,629	1,394	1,394	2,160	1,997	1,581	749	874	1,760	36,434
Klondike Phase 1	3,499	3,379	3,245	3,453	2,995	3,370	1,789	1,789	3,520	3,786	3,328	1,517	1,770	2,480	39,918
Nine Canyon Wind Project	668	1,039	1,135	1,250	949	709	293	293	563	559	408	205	239	409	8,716
Stateline Wind Project	13,228	12,736	11,992	12,883	11,103	12,491	6,683	6,683	13,030	14,034	12,363	5,620	6,557	9,281	148,684
Total NUG: Renewable	27,765	29,557	31,722	33,019	28,334	28,882	14,401	14,401	26,274	28,363	23,630	10,779	12,576	19,691	329,397
-Total Non-Utility Generating Resources-															
Federal Entities	33,782	41,007	44,542	45,901	38,614	39,792	23,972	23,972	44,375	39,851	31,660	16,573	18,486	23,571	466,099
Total Federal Entities	33,782	41,007	44,542	45,901	38,614	39,792	23,972	23,972	44,375	39,851	31,660	16,573	18,486	23,571	466,099

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	416	400	416	400	384	432	208	208	400	416	400	208	224	400	4,912
Dworshak Small Hydropower	1,094	1,052	1,094	1,052	1,010	1,136	547	547	1,052	1,094	1,052	547	589	1,052	12,919
Elwha Hydro	1,586	4,027	4,584	5,057	3,507	3,703	3,531	3,531	3,848	3,526	2,202	0	0	0	39,102
Glines Hydro	2,864	6,028	6,726	6,314	5,379	5,638	5,285	5,285	12,801	6,452	4,317	0	0	0	67,089
Total NUG Hydro	5,960	11,507	12,821	12,823	10,280	10,909	9,571	9,571	18,101	11,488	7,972	755	813	1,452	124,022
-NUG: Renewable-															
Ashland Solar Project	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
Condon Wind Project	4,659	5,320	5,699	5,160	4,800	5,184	2,891	2,891	4,960	6,074	4,240	2,142	2,307	4,040	60,368
Foote Creek 1	2,329	3,320	4,201	4,239	3,686	3,110	1,206	1,206	1,840	1,705	1,320	686	739	1,520	31,108
Foote Creek 2	291	400	541	520	461	389	146	146	200	208	160	83	90	200	3,834
Foote Creek 4	2,704	3,880	4,909	4,920	4,339	3,629	1,394	1,394	2,160	1,997	1,520	811	874	1,760	36,290
Fourmile Hill Geothermal	20,758	19,960	20,758	19,960	19,162	21,557	10,379	10,379	19,960	20,758	19,960	10,379	11,178	19,960	245,109
Klondike Phase 1	3,370	3,520	3,245	3,320	2,995	3,370	1,789	1,789	3,520	3,786	3,200	1,643	1,770	2,480	39,795
Nine Canyon Wind Project	643	1,082	1,135	1,202	949	709	293	293	563	559	392	222	239	409	8,688
Stateline Wind Project	12,512	13,030	11,992	12,387	11,103	12,491	6,683	6,683	13,030	14,034	11,888	6,089	6,557	9,281	147,759
Total NUG: Renewable	47,268	50,513	52,480	51,709	47,496	50,439	24,781	24,781	46,234	49,122	42,682	22,057	23,753	39,651	572,965
-Total Non-Utility Generating Resources-															
Federal Entities	53,228	62,020	65,301	64,533	57,776	61,349	34,351	34,351	64,335	60,609	50,653	22,812	24,566	41,103	696,987
Total Federal Entities	53,228	62,020	65,301	64,533	57,776	61,349	34,351	34,351	64,335	60,609	50,653	22,812	24,566	41,103	696,987

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Heavy Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	416	400	416	400	384	432	208	192	416	416	400	208	224	400	4,912
Dworshak Small Hydropower	1,094	1,052	1,094	1,052	1,010	1,136	547	505	1,094	1,094	1,052	547	589	1,052	12,919
Total NUG Hydro	1,510	1,452	1,510	1,452	1,394	1,568	755	697	1,510	1,510	1,452	755	813	1,452	17,831
-NUG: Renewable-															
Ashland Solar Project	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
Condon Wind Project	4,659	5,320	5,699	5,160	4,800	5,184	2,891	2,669	5,158	6,074	4,240	2,142	2,307	4,040	60,344
Foote Creek 1	2,329	3,320	4,201	4,239	3,686	3,110	1,206	1,113	1,913	1,705	1,320	686	739	1,520	31,089
Foote Creek 2	291	400	541	520	461	389	146	134	208	208	160	83	90	200	3,830
Foote Creek 4	2,704	3,880	4,909	4,920	4,339	3,629	1,394	1,286	2,246	1,997	1,520	811	874	1,760	36,269
Fourmile Hill Geothermal	20,758	19,960	20,758	19,960	19,162	21,557	10,379	9,581	20,758	20,758	19,960	10,379	11,178	19,960	245,109
Klondike Phase 1	3,370	3,520	3,245	3,320	2,995	3,370	1,789	1,651	3,661	3,786	3,200	1,643	1,770	2,480	39,798
Nine Canyon Wind Project	643	1,082	1,135	1,202	949	709	293	270	585	559	392	222	239	409	8,688
Stateline Wind Project	12,512	13,030	11,992	12,387	11,103	12,491	6,683	6,169	13,551	14,034	11,888	6,089	6,557	9,281	147,766
Total NUG: Renewable	47,268	50,513	52,480	51,709	47,496	50,439	24,781	22,874	48,083	49,122	42,682	22,057	23,753	39,651	572,908
-Total Non-Utility Generating Resources-															
Federal Entities	48,778	51,965	53,990	53,161	48,890	52,007	25,536	23,571	49,593	50,632	44,134	22,812	24,566	41,103	590,739
Total Federal Entities	48,778	51,965	53,990	53,161	48,890	52,007	25,536	23,571	49,593	50,632	44,134	22,812	24,566	41,103	590,739

2.7.4 LLH SUPPORTING DATA

Monthly Light Load Energy

In Megawatt Hours Analysis

For FY 2003-2006

Table A-2: Exports
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	6,560	3,040	3,520	6,400	19,520
BPA to AZUS CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to AZUS PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BANN CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BANN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BART PwrS	7,823	7,560	7,812	8,928	8,064	8,928	4,308	4,320	8,928	8,640	7,254	3,510	3,744	7,020	96,839
BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to CLTN CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to CLTN PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to MSR PwrS	0	0	0	0	0	0	0	0	0	21,000	21,300	2,532	4,781	5,664	55,277
BPA to Other ECD Entities	17,925	21,774	26,519	26,001	22,551	22,982	10,221	10,220	17,805	18,337	20,867	9,239	9,846	16,793	251,078
BPA to Other PSW Entities	156,500	165,200	172,000	98,400	86,400	98,400	45,300	45,600	98,400	96,000	98,400	45,600	52,800	96,000	1,355,000
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to SPP PwrS	14,085	14,400	15,480	14,760	12,960	14,760	11,325	11,400	24,600	24,000	24,600	11,400	13,200	24,000	230,970
BPA NW-SW Intertie Losses	4,930	5,183	5,394	3,220	2,834	3,220	1,488	1,498	3,220	3,769	4,005	1,640	1,945	3,453	45,799
Federal Entities	201,262	214,117	227,205	151,309	132,809	148,290	72,642	73,038	152,953	171,746	182,986	76,961	89,836	159,329	2,054,482

Table A-2: Exports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	6,560	3,360	3,200	6,400	19,520
BPA to BART PwrS	7,264	7,020	7,254	7,254	6,786	7,254	3,500	3,510	7,254	7,020	7,254	3,510	3,744	7,020	85,644
BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to MSR PwrS	0	0	0	0	0	0	0	0	0	18,600	21,300	4,932	2,381	5,664	52,877
BPA to Other ECD Entities	18,842	22,848	27,796	27,252	23,637	24,113	10,728	10,728	18,731	19,278	21,915	9,707	10,354	17,674	263,600
BPA to Other PSW Entities	93,900	100,800	98,400	57,400	54,600	54,600	26,425	26,600	60,200	53,200	57,400	29,400	28,000	56,000	796,925
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to SPP PwrS	14,085	15,120	14,760	14,760	14,040	14,040	11,325	11,400	25,800	22,800	24,600	12,600	12,000	24,000	231,330
BPA NW-SW Intertie Losses	3,035	3,235	3,170	1,940	1,842	1,856	898	903	2,024	2,365	2,775	1,236	1,120	2,253	28,649
Federal Entities	137,126	149,022	151,380	108,605	100,904	101,863	52,876	53,141	114,009	123,262	141,804	64,745	60,798	119,010	1,478,545

Table A-2: Exports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BART PwrS	7,264	7,020	7,254	7,254	6,552	7,254	3,500	3,510	7,254	7,020	7,254	3,510	3,744	7,020	85,410
BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to MSR PwrS	0	0	0	0	0	0	0	0	0	18,600	23,700	2,532	2,381	5,664	52,877
BPA to Other ECD Entities	19,590	23,755	28,900	28,331	24,573	25,069	11,153	11,153	19,474	20,041	22,774	10,087	10,759	18,367	274,026
BPA to Other PSW Entities	57,575	56,000	57,400	60,200	50,400	54,600	26,425	26,600	60,200	53,200	60,200	26,600	28,000	56,000	673,400
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to SPP PwrS	14,805	14,400	14,760	15,480	12,960	14,040	11,325	11,400	25,800	22,800	25,800	11,400	12,000	24,000	230,970
BPA NW-SW Intertie Losses	1,945	1,891	1,940	2,024	1,709	1,856	898	903	2,024	2,365	2,735	979	1,024	2,061	24,351
Federal Entities	101,179	103,065	110,253	113,289	96,194	102,818	53,301	53,566	114,752	124,026	142,463	55,108	57,908	113,112	1,341,034

Table A-2: Exports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
BPA to BART PwrS	7,264	7,020	7,254	7,254	6,552	7,254	3,500	3,510	7,254	7,020	234	0	0	0	64,116
BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to Other ECD Entities	20,356	24,685	30,031	29,441	25,534	26,051	11,591	11,591	20,240	20,827	23,745	10,519	11,221	19,149	284,980
BPA to Other PSW Entities	69,090	67,200	68,880	72,240	60,480	65,520	31,710	35,280	68,880	63,840	72,240	31,920	33,600	67,200	808,080
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to SPP PwrS	14,805	14,400	14,760	15,480	12,960	14,040	11,325	12,600	24,600	22,800	25,800	11,400	12,000	24,000	230,970
BPA NW-SW Intertie Losses	2,291	2,227	2,284	2,385	2,011	2,183	1,056	1,164	2,284	2,126	2,174	958	1,008	2,016	26,166
Federal Entities	113,805	115,531	123,209	126,800	107,537	115,048	59,183	64,145	123,258	116,613	124,193	54,797	57,829	112,365	1,414,312

Table A-5: Imports
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
ANHM To BPA PwrX	6,260	6,400	6,880	6,560	5,760	6,560	0	0	0	0	0	0	0	0	38,420
BURB To BPA PkRepl	2,993	1,929	1,993	1,993	1,800	1,993	962	964	2,989	3,857	3,986	1,929	2,057	3,857	33,302
BURB To BPA XchgNrg	1,941	2,748	3,740	3,740	3,378	3,740	1,805	938	1,939	1,876	1,939	938	1,001	1,876	31,599
CLTN To BPA PwrX	0	960	1,032	984	864	0	0	0	0	0	0	0	0	0	3,840
GLEN To BPA PkRepl	3,326	2,143	2,215	2,215	2,001	2,215	1,069	1,072	3,322	4,286	4,429	2,143	2,286	4,286	37,008
GLEN To BPA XchgNrg	2,157	3,053	4,156	4,156	3,753	4,156	2,005	1,042	2,154	2,084	2,154	1,042	1,112	2,084	35,108
Other ISW Entities To BPA	15,650	16,000	17,200	16,400	14,400	16,400	7,550	7,600	0	0	16,400	7,600	8,800	16,000	160,000
Other PSW Entities To BPA	7,825	40,000	43,000	8,200	7,200	8,200	3,775	3,800	8,200	8,000	8,200	3,800	4,400	8,000	162,600
PASA To BPA PkRepl	1,996	1,286	1,329	1,329	1,200	1,329	641	643	1,993	2,571	2,657	1,286	1,371	2,571	22,202
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
PASA To BPA S/N/X	514	497	513	513	464	238	0	0	0	0	0	0	0	497	3,236
PASA To BPA XchgNrg	1,294	1,832	2,493	2,493	2,252	2,493	1,203	625	1,292	1,251	1,292	625	667	1,251	21,063
PASA To BPA XchgNrg	2,593	2,506	2,589	2,589	2,339	1,295	0	0	0	0	0	0	0	0	16,415
PPLE To BPA PwrS	33,867	51,456	74,063	61,926	41,760	38,343	13,530	13,619	33	5,824	11,086	1,961	2,270	13,472	363,211
PWRX To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PWRX To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PWRX To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RVSD To BPA PkRepl	0	3,456	3,571	3,571	3,226	3,571	1,723	1,728	5,059	0	0	0	0	0	25,906
RVSD To BPA PkRepl	5,066	0	0	0	0	0	0	0	0	4,896	5,059	2,448	2,611	4,896	24,976
RVSD To BPA PkRepl	7,972	1,944	2,009	2,009	1,814	2,009	969	972	0	0	7,961	3,852	4,109	7,704	43,323
RVSD To BPA S/Pwr/X	0	6,624	6,845	6,845	6,182	6,845	3,303	0	0	0	0	0	0	0	36,644
RVSD To BPA XchgNrg	4,321	4,176	4,315	4,315	3,898	4,315	2,082	0	0	0	0	0	0	0	27,422
RVSD To BPA XchgNrg	0	11,520	11,904	11,904	10,752	11,904	5,744	0	0	0	0	0	0	0	63,728
SPP To BPA PwrS	14,085	14,400	15,480	14,760	12,960	14,760	11,325	11,400	24,600	24,000	24,600	11,400	13,200	24,000	230,970
Federal System	111,859	172,929	205,328	156,503	126,002	130,366	57,686	44,403	51,581	58,645	93,082	40,629	45,597	96,211	1,390,821

Table A-5: Imports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
ANHM To BPA PwrX	6,260	6,720	6,560	6,560	6,240	6,240	0	0	0	0	0	0	0	0	38,580
BURB To BPA PkRepl	2,993	1,929	1,993	1,993	1,865	1,993	962	964	2,989	3,857	3,986	1,929	2,057	3,857	33,367
BURB To BPA XchgNrg	1,941	2,748	3,740	3,740	3,501	3,740	1,805	938	1,939	1,876	1,939	938	1,001	1,876	31,722
CLTN To BPA PwrX	0	1,008	984	984	936	0	0	0	0	0	0	0	0	0	3,912
GLEN To BPA PkRepl	3,326	2,143	2,215	2,215	2,074	2,215	1,069	1,072	3,322	4,286	4,429	2,143	2,286	4,286	37,081
GLEN To BPA XchgNrg	2,157	3,053	4,156	4,156	3,891	4,156	2,005	1,042	2,154	2,084	2,154	1,042	1,112	2,084	35,246
Other ISW Entities To BPA	15,650	16,800	16,400	16,400	15,600	15,600	7,550	7,600	0	0	16,400	8,400	8,000	16,000	160,400
Other PSW Entities To BPA	7,825	8,400	8,200	0	0	0	0	0	0	0	0	0	0	0	24,425
PASA To BPA PkRepl	1,996	1,286	1,329	1,329	1,246	1,329	641	643	1,993	2,571	2,657	1,286	1,371	2,571	22,248
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
PASA To BPA S/N/X	514	497	513	513	480	238	0	0	0	0	0	0	0	0	3,253
PASA To BPA XchgNrg	1,294	1,832	2,493	2,493	2,332	2,493	1,203	625	1,292	1,251	1,292	625	667	1,251	21,143
PASA To BPA XchgNrg	2,593	2,506	2,589	2,589	2,422	1,295	0	0	0	0	0	0	0	0	16,499
PPLE To BPA PwrS	33,867	54,029	70,618	61,926	45,240	36,473	13,530	13,619	34	5,533	11,086	2,167	2,064	13,472	363,659
RVSD To BPA PkRepl	0	3,456	3,571	3,571	3,341	3,571	1,723	1,728	5,059	0	0	0	0	0	26,021
RVSD To BPA PkRepl	5,066	0	0	0	0	0	0	0	0	4,896	5,059	2,448	2,611	4,896	24,976
RVSD To BPA PkRepl	7,972	1,944	2,009	2,009	1,879	2,009	969	972	0	0	7,961	3,852	4,109	7,704	43,388
RVSD To BPA S/Pwr/X	0	6,624	6,845	6,845	6,403	6,845	3,303	0	0	0	0	0	0	0	36,864
RVSD To BPA XchgNrg	4,321	4,176	4,315	4,315	4,037	4,315	2,082	0	0	0	0	0	0	0	27,562
RVSD To BPA XchgNrg	0	11,520	11,904	11,904	11,136	11,904	5,744	0	0	0	0	0	0	0	64,112
SPP To BPA PwrS	14,085	15,120	14,760	14,760	14,040	14,040	11,325	11,400	25,800	22,800	24,600	12,600	12,000	24,000	231,330
Federal System	111,859	145,790	165,195	148,303	126,663	118,455	53,911	40,603	44,583	49,154	84,882	39,036	38,991	88,211	1,255,635

Table A-5: Imports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
ANHM To BPA PwrX	6,580	6,400	6,560	6,880	5,760	6,240	0	0	0	0	0	0	0	0	38,420
BURB To BPA PkRepl	2,993	1,929	1,993	1,993	1,800	1,993	962	964	2,989	3,857	3,986	1,929	2,057	3,857	33,302
BURB To BPA XchgNrg	1,941	2,748	3,740	3,740	3,378	3,740	1,805	938	1,939	1,876	1,939	938	1,001	1,876	31,599
GLEN To BPA PkRepl	3,326	2,143	2,215	2,215	2,001	2,215	1,069	1,072	3,322	4,286	4,429	2,143	2,286	4,286	37,008
GLEN To BPA XchgNrg	2,157	3,053	4,156	4,156	3,753	4,156	2,005	1,042	2,154	2,084	2,154	1,042	1,112	2,084	35,108
Other ISW Entities To BPA	16,450	16,000	16,400	17,200	14,400	15,600	7,550	7,600	0	0	17,200	7,600	8,000	16,000	160,000
Other PSW Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	1,996	1,286	1,329	1,329	1,200	1,329	641	643	1,993	2,571	2,657	1,286	1,371	2,571	22,202
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
PASA To BPA S/N/X	514	497	513	513	464	238	0	0	0	0	0	0	0	497	3,236
PASA To BPA XchgNrg	1,294	1,832	2,493	2,493	2,252	2,493	1,203	625	1,292	1,251	1,292	625	667	1,251	21,063
PASA To BPA XchgNrg	2,593	2,506	2,589	2,589	2,339	1,295	0	0	0	0	0	0	0	2,506	16,415
PPLE To BPA PwrS	35,598	51,456	70,618	64,947	41,760	36,473	13,530	13,619	34	5,533	11,627	1,961	2,064	13,472	362,692
RVSD To BPA PkRepl	0	3,456	3,571	3,571	3,226	3,571	1,723	1,728	5,059	0	0	0	0	0	25,906
RVSD To BPA PkRepl	5,066	0	0	0	0	0	0	0	0	4,896	5,059	2,448	2,611	4,896	24,976
RVSD To BPA PkRepl	7,972	1,944	2,009	2,009	1,814	2,009	969	972	0	0	7,961	3,852	4,109	7,704	43,323
RVSD To BPA S/Pwr/X	0	6,624	6,845	6,845	6,182	6,845	3,303	0	0	0	0	0	0	0	36,644
RVSD To BPA XchgNrg	4,321	4,176	4,315	4,315	3,898	4,315	2,082	0	0	0	0	0	0	0	27,422
RVSD To BPA XchgNrg	0	11,520	11,904	11,904	10,752	11,904	5,744	0	0	0	0	0	0	0	63,728
SPP To BPA PwrS	14,805	14,400	14,760	15,480	12,960	14,040	11,325	11,400	25,800	22,800	25,800	11,400	12,000	24,000	230,970
Federal System	107,605	131,969	156,011	152,180	117,938	118,455	53,911	40,603	44,583	49,154	87,422	36,829	38,991	88,211	1,223,862

Table A-5: Imports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
BURB To BPA PkRepl	2,993	1,929	1,993	1,993	1,800	1,993	962	964	2,989	3,857	3,986	1,929	2,057	3,857	33,302
BURB To BPA XchgNrg	1,941	2,748	3,740	3,740	3,378	3,740	1,805	938	1,939	1,876	1,939	938	1,001	1,876	31,599
GLEN To BPA PkRepl	3,326	2,143	2,215	2,215	2,001	2,215	1,069	1,072	3,322	4,286	4,429	2,143	2,286	4,286	37,008
GLEN To BPA XchgNrg	2,157	3,053	4,156	4,156	3,753	4,156	2,005	1,042	2,154	2,084	2,154	1,042	1,112	2,084	35,108
Other ISW Entities To BPA	16,450	16,000	16,400	17,200	14,400	15,600	7,550	8,400	0	0	17,200	7,600	8,000	16,000	160,800
Other PSW Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	1,996	1,286	1,329	1,329	1,200	1,329	641	643	1,993	2,571	2,657	1,286	1,371	2,571	22,202
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
PASA To BPA S/N/X	514	497	513	513	464	238	0	0	0	0	0	0	0	497	3,236
PASA To BPA XchgNrg	1,294	1,832	2,493	2,493	2,252	2,493	1,203	625	1,292	1,251	1,292	625	667	1,251	21,063
PASA To BPA XchgNrg	2,593	2,506	2,589	2,589	2,339	1,295	0	0	0	0	0	0	0	0	2,506
PPLE To BPA PwrS	35,598	51,456	70,618	64,947	41,760	36,473	13,530	15,053	33	5,533	11,627	1,961	2,064	13,472	364,124
RVSD To BPA PkRepl	0	3,456	3,571	3,571	3,226	3,571	1,723	1,728	5,059	0	0	0	0	0	25,906
RVSD To BPA PkRepl	5,066	0	0	0	0	0	0	0	0	4,896	5,059	2,448	2,611	4,896	24,976
RVSD To BPA PkRepl	7,972	1,944	2,009	2,009	1,814	2,009	969	972	0	0	7,961	3,852	4,109	7,704	43,323
RVSD To BPA S/Pwr/X	0	6,624	6,845	6,845	6,182	6,845	3,303	0	0	0	0	0	0	0	36,644
RVSD To BPA XchgNrg	4,321	4,176	4,315	4,315	3,898	4,315	2,082	0	0	0	0	0	0	0	27,422
RVSD To BPA XchgNrg	0	11,520	11,904	11,904	10,752	11,904	5,744	0	0	0	0	0	0	0	63,728
SPP To BPA PwrS	14,805	14,400	14,760	15,480	12,960	14,040	11,325	12,600	24,600	22,800	25,800	11,400	12,000	24,000	230,970
Federal System	101,025	125,569	149,451	145,300	112,178	112,215	53,911	44,037	43,381	49,154	87,422	36,829	38,991	88,211	1,187,674

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Sum</i>
James River Wauna	8,764	9,280	10,664	10,496	8,928	10,168	4,530	4,560	8,856	8,640	8,856	4,104	4,752	8,640	111,238
Total Federal System	8,764	9,280	10,664	10,496	8,928	10,168	4,530	4,560	8,856	8,640	8,856	4,104	4,752	8,640	111,238

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Sum</i>
James River Wauna	8,764	9,744	10,168	10,496	9,672	9,672	4,530	4,560	9,288	8,208	8,856	4,536	4,320	8,640	111,454
Total Federal System	8,764	9,744	10,168	10,496	9,672	9,672	4,530	4,560	9,288	8,208	8,856	4,536	4,320	8,640	111,454

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Sum</i>
James River Wauna	9,212	9,280	10,168	11,008	8,928	9,672	4,530	4,560	9,288	8,208	9,288	4,104	4,320	8,640	111,206
Total Federal System	9,212	9,280	10,168	11,008	8,928	9,672	4,530	4,560	9,288	8,208	9,288	4,104	4,320	8,640	111,206

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Sum</i>
James River Wauna	9,212	9,280	10,168	11,008	8,928	9,672	4,530	5,040	8,856	8,208	9,288	4,104	4,320	8,640	111,254
Total Federal System	9,212	9,280	10,168	11,008	8,928	9,672	4,530	5,040	8,856	8,208	9,288	4,104	4,320	8,640	111,254

**Table A-10: Large Thermal
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Columbia Generating Station	313,000	320,000	344,000	328,000	288,000	328,000	151,000	152,000	95,226	74,667	328,000	152,000	176,000	320,000	3,369,892
Total Federal System	313,000	320,000	344,000	328,000	288,000	328,000	151,000	152,000	95,226	74,667	328,000	152,000	176,000	320,000	3,369,892

**Table A-10: Large Thermal
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Columbia Generating Station	313,000	336,000	328,000	328,000	312,000	312,000	151,000	152,000	344,000	304,000	328,000	168,000	160,000	320,000	3,856,000
Total Federal System	313,000	336,000	328,000	328,000	312,000	312,000	151,000	152,000	344,000	304,000	328,000	168,000	160,000	320,000	3,856,000

**Table A-10: Large Thermal
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Columbia Generating Station	329,000	320,000	328,000	344,000	288,000	312,000	151,000	152,000	133,161	40,533	344,000	152,000	160,000	320,000	3,373,695
Total Federal System	329,000	320,000	328,000	344,000	288,000	312,000	151,000	152,000	133,161	40,533	344,000	152,000	160,000	320,000	3,373,695

**Table A-10: Large Thermal
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Columbia Generating Station	329,000	320,000	328,000	344,000	288,000	312,000	151,000	168,000	328,000	304,000	344,000	152,000	160,000	320,000	3,848,000
Total Federal System	329,000	320,000	328,000	344,000	288,000	312,000	151,000	168,000	328,000	304,000	344,000	152,000	160,000	320,000	3,848,000

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-BPA CER for CSPE-															
BPA to BPA	51,065	49,559	51,104	51,157	46,110	52,122	0	0	0	0	0	0	0	0	301,117
BPA: Regional Totals	51,065	49,559	51,104	51,157	46,110	52,122	0	0	0	0	0	0	0	0	301,117
-Priest Rapids CER for CSPE-															
AVWP to BPA	130	126	130	130	117	132	0	0	0	0	0	0	0	0	765
COPD to BPA	43	41	43	43	38	43	0	0	0	0	0	0	0	0	251
EWEB to BPA	36	35	36	36	33	37	0	0	0	0	0	0	0	0	213
FGRV to BPA	11	10	11	11	10	11	0	0	0	0	0	0	0	0	63
GCPD to BPA	777	754	777	778	701	793	0	0	0	0	0	0	0	0	4,579
KITT to BPA	9	8	9	9	8	9	0	0	0	0	0	0	0	0	50
MCMN to BPA	11	10	11	11	10	11	0	0	0	0	0	0	0	0	63
MTFR to BPA	11	10	11	11	10	11	0	0	0	0	0	0	0	0	63
PGE to BPA	296	287	296	296	267	302	0	0	0	0	0	0	0	0	1,744
PPL to BPA	296	287	296	296	267	302	0	0	0	0	0	0	0	0	1,744
PSE to BPA	170	165	170	171	154	174	0	0	0	0	0	0	0	0	1,004
SCL to BPA	170	165	170	171	154	174	0	0	0	0	0	0	0	0	1,004
TPU to BPA	170	165	170	171	154	174	0	0	0	0	0	0	0	0	1,004
Priest Rapids: Reg. Totals	2,128	2,065	2,129	2,132	1,921	2,172	0	0	0	0	0	0	0	0	12,547
-Wanapum CER for CSPE-															
AVWP to BPA	233	226	233	233	210	237	0	0	0	0	0	0	0	0	1,372
COPD to BPA	77	74	77	77	69	78	0	0	0	0	0	0	0	0	452
EWEB to BPA	65	63	65	65	59	67	0	0	0	0	0	0	0	0	385
FGRV to BPA	20	19	20	20	18	20	0	0	0	0	0	0	0	0	117
GCPD to BPA	1,035	1,005	1,036	1,037	935	1,057	0	0	0	0	0	0	0	0	6,106
MCMN to BPA	20	19	20	20	18	20	0	0	0	0	0	0	0	0	117
MTFR to BPA	20	19	20	20	18	20	0	0	0	0	0	0	0	0	117
PGE to BPA	531	515	531	531	479	541	0	0	0	0	0	0	0	0	3,128
PPL to BPA	531	515	531	531	479	541	0	0	0	0	0	0	0	0	3,128
PSE to BPA	306	297	307	307	277	313	0	0	0	0	0	0	0	0	1,807
Wanapum: Regional Totals	2,837	2,753	2,839	2,842	2,562	2,896	0	0	0	0	0	0	0	0	16,729
-Rock Island P.H. #1 CER for CSPE-															
CHPD to BPA	206	200	206	206	186	210	0	0	0	0	0	0	0	0	1,213
PSE to BPA	206	200	206	206	186	210	0	0	0	0	0	0	0	0	1,213
Rock Island P.H. #1: Reg. Totals	411	399	412	412	371	420	0	0	0	0	0	0	0	0	2,426
-Rock Island P.H. #2 CER for CSPE-															
CHPD to BPA	89	87	89	90	81	91	0	0	0	0	0	0	0	0	527
PSE to BPA	209	202	209	209	188	213	0	0	0	0	0	0	0	0	1,230
Rock Island P.H. #2: Reg. Totals	298	289	298	298	269	304	0	0	0	0	0	0	0	0	1,757

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Rocky Reach CER for CSPE-															
AVWP to BPA	165	160	165	165	149	168	0	0	0	0	0	0	0	0	970
CHPD to BPA	858	833	859	860	775	876	0	0	0	0	0	0	0	0	5,062
CLKM to BPA	1,305	1,267	1,306	1,307	1,178	1,332	0	0	0	0	0	0	0	0	7,695
DOPD to BPA	157	153	157	157	142	160	0	0	0	0	0	0	0	0	927
PGE to BPA	681	661	681	682	615	695	0	0	0	0	0	0	0	0	4,015
PPL to BPA	301	292	301	301	272	307	0	0	0	0	0	0	0	0	1,773
PSE to BPA	2,207	2,142	2,209	2,211	1,993	2,253	0	0	0	0	0	0	0	0	13,015
Rocky Reach: Regional Totals	5,674	5,507	5,678	5,684	5,123	5,791	0	0	0	0	0	0	0	0	33,457
-Wells CER for CSPE-															
AVWP to BPA	131	127	131	131	118	134	0	0	0	0	0	0	0	0	774
DOPD to BPA	982	953	983	984	887	1,003	0	0	0	0	0	0	0	0	5,792
OKPD to BPA	284	275	284	284	256	290	0	0	0	0	0	0	0	0	1,673
PGE to BPA	748	726	749	750	676	764	0	0	0	0	0	0	0	0	4,412
PPL to BPA	255	248	256	256	231	261	0	0	0	0	0	0	0	0	1,506
PSE to BPA	1,145	1,112	1,146	1,147	1,034	1,169	0	0	0	0	0	0	0	0	6,754
Wells: Regional Totals	3,546	3,442	3,549	3,553	3,202	3,620	0	0	0	0	0	0	0	0	20,911
-Total CER For CSPE-															
Federal System	51,065	49,559	51,104	51,157	46,110	52,122	0	0	0	0	0	0	0	0	301,117
Public Agencies	5,050	4,901	5,054	5,059	4,560	5,154	0	0	0	0	0	0	0	0	29,777
Investor-Owned Utilities	8,539	8,287	8,546	8,555	7,711	8,716	0	0	0	0	0	0	0	0	50,353
Other Entities	1,305	1,267	1,306	1,307	1,178	1,332	0	0	0	0	0	0	0	0	7,695
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	65,959	64,014	66,009	66,078	59,559	67,324	0	0	0	0	0	0	0	0	388,943

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
<i>-BPA CER for CSPE-</i>															
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Priest Rapids CER for CSPE-</i>															
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Wanapum CER for CSPE-</i>															
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rock Island P.H. #1 CER for CSPE-</i>															
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rock Island P.H. #2 CER for CSPE-</i>															
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rocky Reach CER for CSPE-</i>															
Rocky Reach: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Wells CER for CSPE-</i>															
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total CER For CSPE-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	0	0	0	0	0	0	0	0	0						

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
<i>-BPA CER for CSPE-</i>															
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Priest Rapids CER for CSPE-</i>															
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Wanapum CER for CSPE-</i>															
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rock Island P.H. #1 CER for CSPE-</i>															
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rock Island P.H. #2 CER for CSPE-</i>															
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rocky Reach CER for CSPE-</i>															
Rocky Reach: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Wells CER for CSPE-</i>															
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total CER For CSPE-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	0	0	0	0	0	0	0	0	0						

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
<i>-BPA CER for CSPE-</i>															
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Priest Rapids CER for CSPE-</i>															
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Wanapum CER for CSPE-</i>															
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rock Island P.H. #1 CER for CSPE-</i>															
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rock Island P.H. #2 CER for CSPE-</i>															
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rocky Reach CER for CSPE-</i>															
Rocky Reach: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Wells CER for CSPE-</i>															
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total CER For CSPE-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	0	0	0	0	0	0	0	0	0						

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Generating Public Entities-															
BPA to GPE	2,801	3,094	5,109	3,625	2,320	2,797	0	0	0	0	0	0	0	0	19,747
Tot. Generating Public Entities	2,801	3,094	5,109	3,625	2,320	2,797	0	0	0	0	0	0	0	0	19,747
-Small & Non-Gen Public Entities-															
BPA to S&NGE	587	649	1,071	760	487	587	0	0	0	0	0	0	0	0	4,141
Tot. Sml & Non-Gen Pub. Ent.	587	649	1,071	760	487	587	0	0	0	0	0	0	0	0	4,141
-Investor-Owned Entities-															
BPA to IOU	3,395	3,750	6,193	4,394	2,812	3,390	0	0	0	0	0	0	0	0	23,934
Total Investor-Owned Entities	3,395	3,750	6,193	4,394	2,812	3,390	0	0	0	0	0	0	0	0	23,934
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	2,801	3,094	5,109	3,625	2,320	2,797	0	0	0	0	0	0	0	0	19,747
Sml & Non-Gen Public Agencies	587	649	1,071	760	487	587	0	0	0	0	0	0	0	0	4,141
Investor-Owned Utilities	3,395	3,750	6,193	4,394	2,812	3,390	0	0	0	0	0	0	0	0	23,934
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	6,783	7,492	12,373	8,779	5,619	6,774	0	0	0	0	0	0	0	0	47,821

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Generating Public Entities-															
BPA to GPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small & Non-Gen Public Entities-															
BPA to S&NGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Sml & Non-Gen Pub. Ent.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
BPA to IOU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small & Non-Gen Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	0	0	0	0	0	0	0	0	0						

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Generating Public Entities-															
BPA to GPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small & Non-Gen Public Entities-															
BPA to S&NGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Sml & Non-Gen Pub. Ent.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
BPA to IOU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small & Non-Gen Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	0	0	0	0	0	0	0	0	0						

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Generating Public Entities-															
BPA to GPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Small & Non-Gen Public Entities-															
BPA to S&NGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Sml & Non-Gen Pub. Ent.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-															
BPA to IOU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Other Entities-															
BPA to	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-CSPE-															
Generating Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small & Non-Gen Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CSPE	0	0	0	0	0	0	0	0	0						

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Supplemental & Entitlement Capacity															
-Deliveries-															
BPA To AVWP SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To CHPD SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To CLKM SupEntCap	0	56	111	47	10	47	0	0	0	0	0	0	0	0	271
BPA To COPD SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To DOPD SupEntCap	0	56	111	47	10	47	0	0	0	0	0	0	0	0	271
BPA To EWEB SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To FGRV SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To GCPD SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To KITT SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To MCMN SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To MTFR SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To OKPD SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PGE SupEntCap	0	168	334	142	29	142	0	0	0	0	0	0	0	0	814
BPA To PPL SupEntCap	0	112	222	94	19	94	0	0	0	0	0	0	0	0	542
BPA To PSE SupEntCap	0	216	463	175	10	175	0	0	0	0	0	0	0	0	1,039
BPA To SCL SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To TPU SupEntCap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	0	608	1,242	506	77	506	0	0	0	0	0	0	0	0	2,938
-Replacement-															
AVWP To BPA SupEntRpl	820	792	818	818	739	818	0	0	0	0	0	0	0	0	4,806
CHPD To BPA SupEntRpl	2,533	2,448	2,530	2,530	2,285	2,530	0	0	0	0	0	0	0	0	14,855
CLKM To BPA SupEntRpl	1,714	1,656	1,711	1,711	1,546	1,711	0	0	0	0	0	0	0	0	10,049
COPD To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD To BPA SupEntRpl	1,714	1,656	1,711	1,711	1,546	1,711	0	0	0	0	0	0	0	0	10,049
EWEB To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD To BPA SupEntRpl	5,960	5,760	5,952	5,952	5,376	5,952	0	0	0	0	0	0	0	0	34,952
KITT To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR To BPA SupEntRpl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD To BPA SupEntRpl	820	792	818	818	739	818	0	0	0	0	0	0	0	0	4,806
PGE To BPA SupEntRpl	5,141	4,968	5,134	5,134	4,637	5,134	0	0	0	0	0	0	0	0	30,146
PPL To BPA SupEntRpl	3,427	3,312	3,422	3,422	3,091	3,422	0	0	0	0	0	0	0	0	20,097
PSE To BPA SupEntRpl	7,674	7,416	7,663	7,663	6,922	7,663	0	0	0	0	0	0	0	0	45,001
SCL To BPA SupEntRpl	820	792	818	818	739	818	0	0	0	0	0	0	0	0	4,806
TPU To BPA SupEntRpl	820	792	818	818	739	818	0	0	0	0	0	0	0	0	4,806
Total Replacement	31,439	30,384	31,397	31,397	28,358	31,397	0	0	0	0	0	0	0	0	184,372

**Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Total Deliveries-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	56	111	47	10	47	0	0	0	0	0	0	0	0	271
Investor-Owned Utilities	0	496	1,019	411	58	411	0	0	0	0	0	0	0	0	2,395
Other Entities	0	56	111	47	10	47	0	0	0	0	0	0	0	0	271
Total Deliveries	0	608	1,242	506	77	506	0	0	0	0	0	0	0	0	2,938
-Total Replacement-															
Federal System	31,439	30,384	31,397	31,397	28,358	31,397	0	0	0	0	0	0	0	0	184,372
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	31,439	30,384	31,397	31,397	28,358	31,397	0	0	0	0	0	0	0	0	184,372

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Supplemental & Entitlement Capacity															
<i>-Deliveries-</i>															
Total Deliveries															
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>-Replacement-</i>															
Total Replacement															
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>-Total Deliveries-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>-Total Replacement-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Supplemental & Entitlement Capacity															
<i>-Deliveries-</i>															
Total Deliveries															
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Replacement-</i>															
Total Replacement															
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total Deliveries-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total Replacement-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
Supplemental & Entitlement Capacity															
<i>-Deliveries-</i>															
Total Deliveries															
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Replacement-</i>															
Total Replacement															
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total Deliveries-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total Replacement-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Investor-Owned Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Replacement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Wanapum CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rocky Reach CER for Canada-															
AVWP to BPA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CHPD to BPA	5	0	0	0	1	0	0	0	0	0	0	0	0	0	7
CLKM to BPA	8	0	0	0	2	0	0	0	0	0	0	0	0	0	10
DOPD to BPA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PGE to BPA	4	0	0	0	1	0	0	0	0	0	0	0	0	0	5
PPL to BPA	2	0	0	0	1	0	0	0	0	0	0	0	0	0	2
PSE to BPA	13	0	0	0	4	0	0	0	0	0	0	0	0	0	17
Rocky Reach: Regional Totals	34	0	0	0	10	0	0	0	0	0	0	0	0	0	43
-Wells CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wells: Regional Totals	0	0	0	0	0	0	0	0	0						
-Total CER For Canada-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	6	0	0	0	2	0	0	0	0	0	0	0	0	0	8
Investor-Owned Utilities	20	0	0	0	6	0	0	0	0	0	0	0	0	0	25
Other Entities	8	0	0	0	2	0	0	0	0	0	0	0	0	0	10
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	34	0	0	0	10	0	0	0	0	0	0	0	0	0	43

Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	5	1	0	2	0	0	1	0	10
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	2	0	0	1	0	0	0	0	4
PPL to BPA	0	0	0	0	0	0	2	0	0	1	0	0	0	0	4
PSE to BPA	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
SCL to BPA	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
TPU to BPA	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
Priest Rapids: Reg. Totals	0	0	0	0	0	0	14	3	0	6	0	0	3	0	27
-Wanapum CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rocky Reach CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
CHPD to BPA	1	0	0	0	0	0	2	2	0	3	0	0	0	0	8
CLKM to BPA	1	0	0	0	0	0	3	3	0	5	0	0	1	0	13
DOPD to BPA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
PGE to BPA	1	0	0	0	0	0	2	1	0	3	0	0	0	0	7
PPL to BPA	0	0	0	0	0	0	1	1	0	1	0	0	0	0	3
PSE to BPA	2	0	0	0	0	0	5	4	0	9	0	0	1	0	22
Rocky Reach: Regional Totals	5	0	0	0	0	0	14	11	0	22	0	0	3	0	56
-Wells CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wells: Regional Totals	0	0	0	0	0	0	0	0	0						
-Total CER For Canada-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	1	0	0	0	0	0	11	4	0	8	0	0	2	0	26
Investor-Owned Utilities	3	0	0	0	0	0	14	8	0	16	0	0	3	0	44
Other Entities	1	0	0	0	0	0	3	3	0	5	0	0	1	0	13
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	5	0	0	0	0	0	28	14	0	29	0	0	6	0	83

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-															
AVWP to BPA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
PPL to BPA	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
PSE to BPA	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
SCL to BPA	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
TPU to BPA	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Priest Rapids: Reg. Totals	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
-Wanapum CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rocky Reach CER for Canada-															
AVWP to BPA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
CHPD to BPA	0	0	0	0	6	1	0	0	0	0	0	0	0	0	7
CLKM to BPA	0	0	0	0	9	2	0	0	0	0	0	0	0	0	11
DOPD to BPA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
PGE to BPA	0	0	0	0	5	1	0	0	0	0	0	0	0	0	6
PPL to BPA	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
PSE to BPA	0	0	0	0	15	4	0	0	0	0	0	0	0	0	19
Rocky Reach: Regional Totals	0	0	0	0	38	10	0	0	0	0	0	0	0	0	48
-Wells CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total CER For Canada-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	7	16	0	0	0	0	0	0	0	0	23
Investor-Owned Utilities	0	0	0	0	23	16	0	0	0	0	0	0	0	0	38
Other Entities	0	0	0	0	9	2	0	0	0	0	0	0	0	0	11
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	0	0	0	0	38	34	0	0	0	0	0	0	0	0	72

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Priest Rapids CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	7	0	0	32	0	16	19	0	74
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priest Rapids: Reg. Totals	0	0	0	0	0	0	7	0	0	32	0	16	19	0	74
-Wanapum CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rocky Reach CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
CHPD to BPA	0	0	0	0	0	0	3	0	0	4	0	2	1	0	11
CLKM to BPA	0	0	0	0	0	0	4	0	0	7	0	3	2	0	16
DOPD to BPA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
PGE to BPA	0	0	0	0	0	0	2	0	0	3	0	2	1	0	8
PPL to BPA	0	0	0	0	0	0	1	0	0	2	0	1	1	0	4
PSE to BPA	0	0	0	0	0	0	7	0	0	11	0	6	4	0	28
Rocky Reach: Regional Totals	0	0	0	0	0	0	18	0	0	29	0	14	10	0	71
-Wells CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total CER For Canada-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	0	0	10	0	0	37	0	19	21	0	87
Investor-Owned Utilities	0	0	0	0	0	0	11	0	0	17	0	9	6	0	42
Other Entities	0	0	0	0	0	0	4	0	0	7	0	3	2	0	16
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	0	0	0	0	0	0	25	0	0	61	0	30	29	0	145

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	39,920	42,344	41,032	36,384	20,516	9,602	9,652	0	0	0	0	0	0	199,450
BPA To EMPD ChPS	448	433	448	448	405	448	216	216	448	433	448	217	231	433	5,273
BPA To Other Entities	459,331	417,477	461,096	348,428	209,808	326,148	98,679	99,332	263,548	241,120	189,748	87,904	101,416	161,520	3,465,554
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL CapS	60,742	91,657	63,828	80,073	72,767	63,419	29,794	29,991	43,806	50,324	45,158	21,938	23,093	56,451	733,041
BPA To PPL PwrS	33,867	51,456	74,063	61,926	41,760	38,343	13,530	13,619	33	5,824	11,086	1,961	2,270	13,472	363,211
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	32,787	17,213	0	0	0	50,000
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	27,778	27,554	0	0	0	55,332
BPA To PSE WP3Set	0	39,920	42,344	41,032	36,384	20,516	9,602	9,652	0	0	0	0	0	0	199,450
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCPD3 To BPA PwrS(a)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	702,059	675,520	743,728	676,008	559,296	604,504	221,819	162,488	309,304	302,080	588,760	272,688	315,744	566,080	6,700,078
PPL To BPA PkRepl	205,884	220,666	190,574	230,863	179,901	171,526	90,803	91,037	182,992	182,164	120,025	66,984	71,355	161,805	2,166,579
PPL To BPA S/N/X	0	0	0	0	0	24,998	0	0	0	0	0	0	0	0	24,998
PPL To BPA S/Pwr/X	17,528	18,518	0	0	0	0	0	0	0	0	0	0	0	18,518	54,565
SUB To BPA PwrS	7,512	7,680	8,256	7,872	6,912	7,872	3,624	3,648	7,872	7,680	7,872	0	0	0	76,800
TPU To BPA PwrX	0	0	0	11,480	10,080	11,480	5,285	5,320	11,480	11,200	11,480	5,320	6,160	11,200	100,485
-Total Contracts Out-															
Federal System	554,388	640,864	684,123	572,939	397,508	469,389	161,422	162,463	307,835	358,266	291,207	112,019	127,010	231,876	5,071,310
Total Contracts Out	554,388	640,864	684,123	572,939	397,508	469,389	161,422	162,463	307,835	358,266	291,207	112,019	127,010	231,876	5,071,310
-Total Contracts In-															
Federal System	932,983	922,384	942,558	926,223	756,189	820,380	321,531	262,493	511,648	503,124	728,137	344,992	393,259	757,603	9,123,505
Total Contracts In	932,983	922,384	942,558	926,223	756,189	820,380	321,531	262,493	511,648	503,124	728,137	344,992	393,259	757,603	9,123,505

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
<i>-Intra-Regional Transfers-</i>															
BPA To AVWP WP3Set	0	41,232	41,032	41,032	38,808	19,860	9,602	9,652	0	0	0	0	0	0	201,218
BPA To Other Entities	79,346	85,176	83,148	17,548	16,692	16,692	529	532	1,204	1,064	17,548	8,988	8,560	17,120	354,146
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL CapS	49,251	74,317	51,752	64,924	59,000	51,420	24,157	24,317	35,518	40,803	34,621	16,819	17,704	43,279	587,884
BPA To PPL PwrS	33,867	54,029	70,618	61,926	45,240	36,473	13,530	13,619	34	5,533	11,086	2,167	2,064	13,472	363,659
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	33,333	16,667	0	0	0	50,000
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	26,389	27,554	0	0	0	53,943
BPA To PSE WP3Set	0	41,232	41,032	41,032	38,808	19,860	9,602	9,652	0	0	0	0	0	0	201,218
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	554,010	594,048	580,560	579,904	551,616	551,928	221,970	162,640	315,448	279,680	580,560	297,192	283,040	566,080	6,118,676
PPL To BPA PkRepl	166,933	178,918	154,519	187,186	145,865	139,075	73,624	73,814	148,372	147,700	92,019	51,355	54,705	124,050	1,738,135
PPL To BPA S/N/X	0	0	0	0	0	24,998	0	0	0	0	0	0	0	0	24,998
PPL To BPA S/Pwr/X	17,528	19,444	0	0	0	0	0	0	0	0	0	0	0	18,518	55,491
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	11,480	10,920	10,920	5,285	5,320	12,040	10,640	11,480	5,880	5,600	11,200	100,765
<i>-Total Contracts Out-</i>															
Federal System	162,463	295,985	287,583	226,462	198,548	144,305	57,419	57,773	36,757	107,122	107,476	27,974	28,328	73,871	1,812,067
Total Contracts Out	162,463	295,985	287,583	226,462	198,548	144,305	57,419	57,773	36,757	107,122	107,476	27,974	28,328	73,871	1,812,067
<i>-Total Contracts In-</i>															
Federal System	738,471	792,410	735,079	778,570	708,401	726,921	300,879	241,774	475,860	438,020	684,059	354,427	343,345	719,849	8,038,065
Total Contracts In	738,471	792,410	735,079	778,570	708,401	726,921	300,879	241,774	475,860	438,020	684,059	354,427	343,345	719,849	8,038,065

Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	39,920	41,032	42,344	36,384	19,860	9,602	9,652	0	0	0	0	0	0	198,794
BPA To Other Entities	17,602	17,120	17,548	18,404	15,408	16,692	529	532	1,204	1,064	18,404	8,104	8,560	17,120	158,290
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL CapS	37,759	56,976	39,677	49,775	45,234	39,422	18,521	18,643	27,231	31,283	34,621	16,819	17,704	43,279	476,943
BPA To PPL PwrS	35,598	51,456	70,618	64,947	41,760	36,473	13,530	13,619	34	5,533	11,627	1,961	2,064	13,472	362,692
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	32,203	17,797	0	0	0	50,000
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	26,389	28,898	0	0	0	55,287
BPA To PSE WP3Set	0	39,920	41,032	42,344	36,384	19,860	9,602	9,652	0	0	0	0	0	0	198,794
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	581,672	566,080	580,560	599,248	502,272	544,928	218,195	158,840	306,048	272,880	599,136	265,240	280,000	558,080	6,033,179
PPL To BPA PkRepl	127,982	137,171	118,465	143,510	111,830	106,624	56,445	56,590	113,752	113,237	92,019	51,355	54,705	124,050	1,407,735
PPL To BPA S/N/X	0	0	0	0	0	24,998	0	0	0	0	0	0	0	0	24,998
PPL To BPA S/Pwr/X	18,424	18,518	0	0	0	0	0	0	0	0	0	0	0	18,518	55,461
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	12,040	10,080	10,920	5,285	5,320	12,040	10,640	12,040	5,320	5,600	11,200	100,485
-Total Contracts Out-															
Federal System	90,958	205,392	209,907	217,814	175,170	132,307	51,782	52,099	28,469	96,472	111,347	26,884	28,328	73,871	1,500,800
Total Contracts Out	90,958	205,392	209,907	217,814	175,170	132,307	51,782	52,099	28,469	96,472	111,347	26,884	28,328	73,871	1,500,800
-Total Contracts In-															
Federal System	728,078	721,769	699,025	754,798	624,182	687,471	279,925	220,750	431,840	396,757	703,195	321,915	340,305	711,849	7,621,858
Total Contracts In	728,078	721,769	699,025	754,798	624,182	687,471	279,925	220,750	431,840	396,757	703,195	321,915	340,305	711,849	7,621,858

Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	39,920	41,032	42,344	36,384	19,860	9,602	10,308	0	0	0	0	0	0	199,450
BPA To Other Entities	17,602	17,120	17,548	18,404	15,408	16,692	529	588	1,148	1,064	18,404	8,132	8,560	17,120	158,318
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL CapS	37,759	56,976	39,677	49,775	45,234	39,422	18,521	18,643	27,231	31,283	34,621	16,819	17,704	43,279	476,943
BPA To PPL PwrS	35,598	51,456	70,618	64,947	41,760	36,473	13,530	15,053	33	5,533	11,627	1,961	2,064	13,472	364,124
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	32,203	17,797	0	0	0	50,000
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	26,389	28,898	0	0	0	55,287
BPA To PSE WP3Set	0	39,920	41,032	42,344	36,384	19,860	9,602	10,308	0	0	0	0	0	0	199,450
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	572,976	558,880	572,360	460,848	388,272	419,328	157,644	174,592	293,704	272,080	461,536	205,240	215,200	430,400	5,183,060
PPL To BPA PkRepl	127,982	137,171	118,465	143,510	111,830	106,624	56,445	56,590	113,752	113,237	92,019	51,355	54,705	124,050	1,407,735
PPL To BPA S/N/X	0	0	0	0	0	24,998	0	0	0	0	0	0	0	0	24,998
PPL To BPA S/Pwr/X	18,424	18,518	0	0	0	0	0	0	0	0	0	0	0	18,518	55,461
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	12,040	10,080	10,920	5,285	5,880	11,480	10,640	12,040	5,320	5,600	11,200	100,485
-Total Contracts Out-															
Federal System	90,958	205,392	209,907	217,814	175,170	132,307	51,782	54,900	28,411	96,472	111,347	26,912	28,328	73,871	1,503,572
Total Contracts Out	90,958	205,392	209,907	217,814	175,170	132,307	51,782	54,900	28,411	96,472	111,347	26,912	28,328	73,871	1,503,572
-Total Contracts In-															
Federal System	719,382	714,569	690,825	616,398	510,182	561,871	219,374	237,062	418,936	395,957	565,595	261,915	275,505	584,169	6,771,739
Total Contracts In	719,382	714,569	690,825	616,398	510,182	561,871	219,374	237,062	418,936	395,957	565,595	261,915	275,505	584,169	6,771,739

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Federal Entities-															
Federal Entities	31,493	35,478	41,844	41,807	35,918	37,687	16,264	16,114	32,702	33,671	33,208	16,122	17,216	29,550	419,073
Total Federal Entities	31,493	35,478	41,844	41,807	35,918	37,687	16,264	16,114	32,702	33,671	33,208	16,122	17,216	29,550	419,073
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	30,103	7,832	5,227	4,822	3,722	11,688	32,088	32,279	86,755	89,566	104,708	41,675	47,230	60,178	557,872
Total U.S. Bureau of Reclamation	30,103	7,832	5,227	4,822	3,722	11,688	32,088	32,279	86,755	89,566	104,708	41,675	47,230	60,178	557,872
-Direct Service Industry-															
Direct Service Industry	10,642	10,880	11,696	11,152	9,792	11,152	5,134	5,168	11,152	10,880	11,152	5,168	5,984	10,880	130,832
Total Direct Service Industry	10,642	10,880	11,696	11,152	9,792	11,152	5,134	5,168	11,152	10,880	11,152	5,168	5,984	10,880	130,832
-Generating Public Entities-															
Generating Public Entities	559,325	646,077	754,369	757,325	678,197	704,273	336,898	336,948	629,373	584,546	512,023	259,532	277,528	525,026	7,561,440
Total Generating Public Entities	559,325	646,077	754,369	757,325	678,197	704,273	336,898	336,948	629,373	584,546	512,023	259,532	277,528	525,026	7,561,440
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	246,278	280,866	267,817	274,773	212,366	258,193	124,157	119,938	248,255	290,774	289,111	171,027	142,025	202,798	3,128,377
Total Generating Public Entities (Slice)	246,278	280,866	267,817	274,773	212,366	258,193	124,157	119,938	248,255	290,774	289,111	171,027	142,025	202,798	3,128,377
-Non-Generating Public Entities-															
Non-Generating Public Entities	667,008	742,705	876,863	897,689	778,752	767,769	351,432	351,538	696,558	703,220	719,126	350,573	374,951	635,125	8,913,309
Total Non-Generating Public Entities	667,008	742,705	876,863	897,689	778,752	767,769	351,432	351,538	696,558	703,220	719,126	350,573	374,951	635,125	8,913,309
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	147,878	168,646	160,810	164,987	127,515	155,032	74,550	72,017	149,065	174,595	173,596	102,693	85,279	121,770	1,878,434
Total Non-Generating Public Entities (Slice)	147,878	168,646	160,810	164,987	127,515	155,032	74,550	72,017	149,065	174,595	173,596	102,693	85,279	121,770	1,878,434
-Investor-Owned Entities-															
Investor-Owned Entities	119,566	122,240	131,408	125,296	110,016	125,296	57,682	58,064	125,296	122,240	125,296	58,064	67,232	122,240	1,469,936
Total Investor-Owned Entities	119,566	122,240	131,408	125,296	110,016	125,296	57,682	58,064	125,296	122,240	125,296	58,064	67,232	122,240	1,469,936
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	31,493	35,478	41,844	41,807	35,918	37,687	16,264	16,114	32,702	33,671	33,208	16,122	17,216	29,550	419,073
U.S. Bureau of Reclamation	30,103	7,832	5,227	4,822	3,722	11,688	32,088	32,279	86,755	89,566	104,708	41,675	47,230	60,178	557,872
Direct Service Industry	10,642	10,880	11,696	11,152	9,792	11,152	5,134	5,168	11,152	10,880	11,152	5,168	5,984	10,880	130,832
Generating Public Entities	805,602	926,943	1,022,185	1,032,098	890,563	962,466	461,056	456,886	877,628	875,320	801,134	430,559	419,553	727,825	10,689,817
Non-Generating Public Entities	814,886	911,351	1,037,673	1,062,676	906,267	922,801	425,982	423,554	845,623	877,816	892,722	453,266	460,230	756,895	10,791,742
Investor-Owned Entities	119,566	122,240	131,408	125,296	110,016	125,296	57,682	58,064	125,296	122,240	125,296	58,064	67,232	122,240	1,469,936
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	1,812,292	2,014,723	2,250,034	2,277,851	1,956,277	2,071,090	998,206	992,065	1,979,156	2,009,492	1,968,220	1,004,853	1,017,445	1,707,568	24,059,272

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	32,952	37,886	42,590	43,452	38,739	38,383	17,001	16,845	34,968	34,340	34,748	16,883	18,027	31,003	437,819
Total Federal Entities	32,952	37,886	42,590	43,452	38,739	38,383	17,001	16,845	34,968	34,340	34,748	16,883	18,027	31,003	437,819
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	30,103	8,223	4,984	4,822	4,019	11,307	32,088	32,279	89,941	86,211	104,708	44,879	44,026	60,178	557,768
Total U.S. Bureau of Reclamation	30,103	8,223	4,984	4,822	4,019	11,307	32,088	32,279	89,941	86,211	104,708	44,879	44,026	60,178	557,768
-Direct Service Industry-															
Direct Service Industry	109,550	117,600	114,800	114,800	109,200	109,200	52,850	53,200	120,400	106,400	114,800	58,800	56,000	112,000	1,349,600
Total Direct Service Industry	109,550	117,600	114,800	114,800	109,200	109,200	52,850	53,200	120,400	106,400	114,800	58,800	56,000	112,000	1,349,600
-Generating Public Entities-															
Generating Public Entities	586,643	687,610	783,598	796,444	732,934	724,664	309,385	309,435	627,318	516,023	532,070	268,775	285,733	543,657	7,704,287
Total Generating Public Entities	586,643	687,610	783,598	796,444	732,934	724,664	309,385	309,435	627,318	516,023	532,070	268,775	285,733	543,657	7,704,287
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	241,472	278,888	261,545	270,247	211,483	251,015	124,476	120,279	283,266	323,409	289,987	164,967	131,928	203,232	3,156,191
Total Generating Public Entities (Slice)	241,472	278,888	261,545	270,247	211,483	251,015	124,476	120,279	283,266	323,409	289,987	164,967	131,928	203,232	3,156,191
-Non-Generating Public Entities-															
Non-Generating Public Entities	710,036	799,119	916,401	948,886	846,152	803,380	373,013	373,123	750,964	737,904	764,557	374,629	397,474	679,255	9,474,890
Total Non-Generating Public Entities	710,036	799,119	916,401	948,886	846,152	803,380	373,013	373,123	750,964	737,904	764,557	374,629	397,474	679,255	9,474,890
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	144,992	167,458	157,044	162,270	126,985	150,722	74,741	72,221	170,087	194,191	174,123	99,054	79,216	122,030	1,895,135
Total Non-Generating Public Entities (Slice)	144,992	167,458	157,044	162,270	126,985	150,722	74,741	72,221	170,087	194,191	174,123	99,054	79,216	122,030	1,895,135
-Investor-Owned Entities-															
Investor-Owned Entities	119,566	128,352	125,296	125,296	119,184	119,184	57,682	58,064	131,408	116,128	125,296	64,176	61,120	122,240	1,472,992
Total Investor-Owned Entities	119,566	128,352	125,296	125,296	119,184	119,184	57,682	58,064	131,408	116,128	125,296	64,176	61,120	122,240	1,472,992
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	32,952	37,886	42,590	43,452	38,739	38,383	17,001	16,845	34,968	34,340	34,748	16,883	18,027	31,003	437,819
U.S. Bureau of Reclamation	30,103	8,223	4,984	4,822	4,019	11,307	32,088	32,279	89,941	86,211	104,708	44,879	44,026	60,178	557,768
Direct Service Industry	109,550	117,600	114,800	114,800	109,200	109,200	52,850	53,200	120,400	106,400	114,800	58,800	56,000	112,000	1,349,600
Generating Public Entities	828,114	966,497	1,045,143	1,066,691	944,416	975,680	433,860	429,713	910,584	839,432	822,057	433,741	417,661	746,889	10,860,478
Non-Generating Public Entities	855,028	966,577	1,073,445	1,111,155	973,137	954,102	447,754	445,344	921,051	932,095	938,679	473,683	476,690	801,286	11,370,024
Investor-Owned Entities	119,566	128,352	125,296	125,296	119,184	119,184	57,682	58,064	131,408	116,128	125,296	64,176	61,120	122,240	1,472,992
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	1,975,314	2,225,136	2,406,258	2,466,216	2,188,696	2,207,855	1,041,235	1,035,445	2,208,352	2,114,605	2,140,288	1,092,163	1,073,524	1,873,596	26,048,682

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	33,844	37,148	42,703	44,479	37,624	38,470	17,045	16,883	35,053	34,426	35,607	16,573	17,697	31,082	438,633
Total Federal Entities	33,844	37,148	42,703	44,479	37,624	38,470	17,045	16,883	35,053	34,426	35,607	16,573	17,697	31,082	438,633
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	32,279	89,941	86,211	108,335	41,675	44,026	60,178	558,925
Total U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	32,279	89,941	86,211	108,335	41,675	44,026	60,178	558,925
-Direct Service Industry-															
Direct Service Industry	115,150	112,000	114,800	120,400	100,800	109,200	52,850	53,200	120,400	106,400	120,400	53,200	56,000	112,000	1,346,800
Total Direct Service Industry	115,150	112,000	114,800	120,400	100,800	109,200	52,850	53,200	120,400	106,400	120,400	53,200	56,000	112,000	1,346,800
-Generating Public Entities-															
Generating Public Entities	598,130	681,763	787,379	811,210	714,983	728,755	311,199	311,249	630,839	519,316	542,796	264,871	282,422	543,571	7,728,482
Total Generating Public Entities	598,130	681,763	787,379	811,210	714,983	728,755	311,199	311,249	630,839	519,316	542,796	264,871	282,422	543,571	7,728,482
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	246,567	279,323	264,480	275,607	204,804	253,604	125,460	121,588	259,879	290,958	276,635	165,628	133,709	205,819	3,104,059
Total Generating Public Entities (Slice)	246,567	279,323	264,480	275,607	204,804	253,604	125,460	121,588	259,879	290,958	276,635	165,628	133,709	205,819	3,104,059
-Non-Generating Public Entities-															
Non-Generating Public Entities	726,356	797,638	926,501	969,125	838,024	809,854	375,888	375,998	756,307	743,129	780,100	371,526	396,057	683,832	9,550,334
Total Non-Generating Public Entities	726,356	797,638	926,501	969,125	838,024	809,854	375,888	375,998	756,307	743,129	780,100	371,526	396,057	683,832	9,550,334
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	148,051	167,719	158,807	165,488	122,975	152,277	75,332	73,007	156,044	174,706	166,105	99,451	80,285	123,584	1,863,832
Total Non-Generating Public Entities (Slice)	148,051	167,719	158,807	165,488	122,975	152,277	75,332	73,007	156,044	174,706	166,105	99,451	80,285	123,584	1,863,832
-Investor-Owned Entities-															
Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	58,064	131,408	116,128	131,408	58,064	61,120	122,240	1,469,936
Total Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	58,064	131,408	116,128	131,408	58,064	61,120	122,240	1,469,936
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
-Power Sales Contracts-															
Federal System	33,844	37,148	42,703	44,479	37,624	38,470	17,045	16,883	35,053	34,426	35,607	16,573	17,697	31,082	438,633
U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	32,279	89,941	86,211	108,335	41,675	44,026	60,178	558,925
Direct Service Industry	115,150	112,000	114,800	120,400	100,800	109,200	52,850	53,200	120,400	106,400	120,400	53,200	56,000	112,000	1,346,800
Generating Public Entities	844,697	961,086	1,051,860	1,086,817	919,787	982,359	436,659	432,837	890,718	810,274	819,431	430,498	416,131	749,389	10,832,542
Non-Generating Public Entities	874,407	965,357	1,085,308	1,134,613	960,998	962,131	451,220	449,005	912,351	917,835	946,205	470,977	476,343	807,416	11,414,166
Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	58,064	131,408	116,128	131,408	58,064	61,120	122,240	1,469,936
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	2,025,067	2,205,663	2,424,950	2,522,775	2,132,946	2,222,651	1,047,544	1,042,268	2,179,871	2,071,274	2,161,386	1,070,987	1,071,316	1,882,306	26,061,002

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	33,931	37,258	42,815	44,598	37,742	38,558	17,510	17,342	34,333	34,511	35,720	16,636	17,764	31,161	439,880
Total Federal Entities	33,931	37,258	42,815	44,598	37,742	38,558	17,510	17,342	34,333	34,511	35,720	16,636	17,764	31,161	439,880
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	35,086	86,755	86,211	108,335	41,675	44,026	60,178	558,545
Total U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	35,086	86,755	86,211	108,335	41,675	44,026	60,178	558,545
-Direct Service Industry-															
Direct Service Industry	115,150	112,000	114,800	120,400	100,800	109,200	52,850	58,800	114,800	106,400	120,400	53,200	56,000	112,000	1,346,800
Total Direct Service Industry	115,150	112,000	114,800	120,400	100,800	109,200	52,850	58,800	114,800	106,400	120,400	53,200	56,000	112,000	1,346,800
-Generating Public Entities-															
Generating Public Entities	599,648	683,003	788,346	811,487	715,846	729,729	307,794	307,794	608,703	504,675	526,735	258,912	276,173	530,533	7,649,377
Total Generating Public Entities	599,648	683,003	788,346	811,487	715,846	729,729	307,794	307,794	608,703	504,675	526,735	258,912	276,173	530,533	7,649,377
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	246,996	279,371	264,277	275,287	204,547	253,310	124,965	123,309	285,771	327,068	281,669	166,275	134,266	206,780	3,173,892
Total Generating Public Entities (Slice)	246,996	279,371	264,277	275,287	204,547	253,310	124,965	123,309	285,771	327,068	281,669	166,275	134,266	206,780	3,173,892
-Non-Generating Public Entities-															
Non-Generating Public Entities	737,522	810,062	940,793	985,881	852,677	824,324	386,768	388,302	760,047	756,074	793,540	378,043	403,009	696,161	9,713,204
Total Non-Generating Public Entities	737,522	810,062	940,793	985,881	852,677	824,324	386,768	388,302	760,047	756,074	793,540	378,043	403,009	696,161	9,713,204
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	148,309	167,748	158,685	165,296	122,820	152,100	75,035	74,041	171,591	196,388	169,128	99,840	80,620	124,161	1,905,763
Total Non-Generating Public Entities (Slice)	148,309	167,748	158,685	165,296	122,820	152,100	75,035	74,041	171,591	196,388	169,128	99,840	80,620	124,161	1,905,763
-Investor-Owned Entities-															
Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	64,176	125,296	116,128	131,408	58,064	61,120	122,240	1,469,936
Total Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	64,176	125,296	116,128	131,408	58,064	61,120	122,240	1,469,936
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	33,931	37,258	42,815	44,598	37,742	38,558	17,510	17,342	34,333	34,511	35,720	16,636	17,764	31,161	439,880
U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	35,086	86,755	86,211	108,335	41,675	44,026	60,178	558,545
Direct Service Industry	115,150	112,000	114,800	120,400	100,800	109,200	52,850	58,800	114,800	106,400	120,400	53,200	56,000	112,000	1,346,800
Generating Public Entities	846,644	962,375	1,052,624	1,086,774	920,394	983,039	432,759	431,104	894,473	831,743	808,404	425,187	410,439	737,313	10,823,269
Non-Generating Public Entities	885,831	977,810	1,099,479	1,151,177	975,498	976,424	461,803	462,343	931,638	952,462	962,668	477,882	483,629	820,322	11,618,966
Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	64,176	125,296	116,128	131,408	58,064	61,120	122,240	1,469,936
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	2,038,526	2,219,515	2,439,997	2,539,414	2,148,171	2,237,711	1,054,692	1,068,850	2,187,295	2,127,455	2,166,935	1,072,644	1,072,978	1,883,214	26,257,396

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	313	320	344	328	288	328	151	152	328	320	328	152	176	320	3,848
Dworshak Small Hydropower	823	842	905	863	757	863	397	400	863	842	863	400	463	842	10,120
Elwha Hydro	1,125	2,826	3,697	3,709	2,593	2,808	2,508	2,508	2,815	2,566	1,790	1,222	1,222	744	32,131
Glines Hydro	2,109	4,246	5,288	4,767	3,983	4,415	3,766	3,766	9,288	4,755	3,529	2,404	2,404	1,411	56,132
Total NUG Hydro	4,370	8,234	10,234	9,666	7,620	8,414	6,822	6,826	13,293	8,483	6,510	4,178	4,265	3,317	102,232
-NUG: Renewable-															
Ashland Solar Project	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
Condon Wind Project	3,506	4,256	4,713	4,231	3,600	3,936	2,099	2,113	4,067	4,672	3,477	1,566	1,813	3,232	47,280
Foote Creek 1	1,753	2,656	3,474	3,476	2,764	2,361	876	881	1,509	1,312	1,082	502	581	1,216	24,442
Foote Creek 2	219	320	447	426	346	295	106	106	164	160	131	61	70	160	3,012
Foote Creek 4	2,035	3,104	4,059	4,034	3,254	2,755	1,012	1,018	1,771	1,536	1,246	593	686	1,408	28,513
Klondike Phase 1	2,535	2,816	2,683	2,722	2,246	2,558	1,299	1,307	2,886	2,912	2,624	1,201	1,390	1,984	31,165
Nine Canyon Wind Project	484	866	938	986	712	538	212	214	461	430	322	162	188	327	6,839
Stateline Wind Project	9,476	10,493	10,096	10,341	8,478	9,656	4,939	4,972	10,878	10,990	9,924	4,530	5,245	7,560	117,579
Total NUG: Renewable	20,008	24,511	26,411	26,218	21,402	22,101	10,543	10,612	21,739	22,013	18,808	8,614	9,974	15,888	258,842
-Total Non-Utility Generating Resources-															
Federal Entities	24,378	32,744	36,645	35,884	29,022	30,515	17,365	17,438	35,032	30,496	25,318	12,792	14,239	19,205	361,074
Total Federal Entities	24,378	32,744	36,645	35,884	29,022	30,515	17,365	17,438	35,032	30,496	25,318	12,792	14,239	19,205	361,074

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	313	336	328	328	312	312	151	152	344	304	328	168	160	320	3,856
Dworshak Small Hydropower	823	884	863	863	821	821	397	400	905	800	863	442	421	842	10,141
Elwha Hydro	1,125	2,826	3,697	3,709	2,593	2,808	2,508	2,508	2,815	2,566	1,790	1,222	1,222	744	32,131
Glines Hydro	2,109	4,246	5,288	4,767	3,983	4,415	3,766	3,766	9,288	4,755	3,529	2,404	2,404	1,411	56,132
Total NUG Hydro	4,370	8,292	10,176	9,666	7,708	8,356	6,822	6,826	13,351	8,424	6,510	4,236	4,207	3,317	102,261
-NUG: Renewable-															
Ashland Solar Project	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
Condon Wind Project	3,506	4,469	4,494	4,231	3,900	3,744	2,099	2,113	4,266	4,438	3,477	1,730	1,648	3,232	47,346
Foote Creek 1	1,753	2,788	3,312	3,476	2,995	2,246	876	881	1,582	1,246	1,082	554	528	1,216	24,537
Foote Creek 2	219	336	426	426	374	281	106	106	172	152	131	67	64	160	3,022
Foote Creek 4	2,035	3,259	3,870	4,034	3,526	2,621	1,012	1,018	1,858	1,459	1,246	655	624	1,408	28,625
Klondike Phase 1	2,535	2,957	2,558	2,722	2,434	2,434	1,299	1,307	3,027	2,766	2,624	1,327	1,264	1,984	31,239
Nine Canyon Wind Project	484	909	895	986	771	512	212	214	484	408	322	179	170	327	6,873
Stateline Wind Project	9,584	11,144	9,455	10,158	9,021	9,021	4,851	4,883	11,206	10,255	9,748	4,918	4,684	7,425	116,354
Total NUG: Renewable	20,116	25,863	25,011	26,034	23,022	20,859	10,455	10,524	22,596	20,727	18,632	9,432	8,983	15,753	258,007
-Total Non-Utility Generating Resources-															
Federal Entities	24,487	34,154	35,187	35,701	30,729	29,215	17,277	17,350	35,947	29,152	25,142	13,668	13,189	19,070	360,268
Total Federal Entities	24,487	34,154	35,187	35,701	30,729	29,215	17,277	17,350	35,947	29,152	25,142	13,668	13,189	19,070	360,268

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2004 - 2005 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	329	320	328	344	288	312	151	152	344	304	344	152	160	320	3,848
Dworshak Small Hydropower	865	842	863	905	757	821	397	400	905	800	905	400	421	842	10,120
Elwha Hydro	1,125	2,826	3,697	3,709	2,593	2,808	2,508	2,508	2,815	2,566	1,790	0	0	0	28,944
Glines Hydro	2,109	4,246	5,288	4,767	3,983	4,415	3,766	3,766	9,288	4,755	3,529	0	0	0	49,913
Total NUG Hydro	4,428	8,234	10,176	9,724	7,620	8,356	6,822	6,826	13,351	8,424	6,568	552	581	1,162	92,825
-NUG: Renewable-															
Ashland Solar Project	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
Condon Wind Project	3,685	4,256	4,494	4,438	3,600	3,744	2,099	2,113	4,266	4,438	3,646	1,566	1,648	3,232	47,224
Foote Creek 1	1,842	2,656	3,312	3,646	2,764	2,246	876	881	1,582	1,246	1,135	502	528	1,216	24,433
Foote Creek 2	230	320	426	447	346	281	106	106	172	152	138	61	64	160	3,009
Foote Creek 4	2,139	3,104	3,870	4,231	3,254	2,621	1,012	1,018	1,858	1,459	1,307	593	624	1,408	28,498
Fourmile Hill Geothermal	16,417	15,968	16,367	17,166	14,371	15,569	7,535	7,585	17,166	15,170	17,166	7,585	7,984	15,968	192,015
Klondike Phase 1	2,665	2,816	2,558	2,855	2,246	2,434	1,299	1,307	3,027	2,766	2,752	1,201	1,264	1,984	31,175
Nine Canyon Wind Project	509	866	895	1,034	712	512	212	214	484	408	337	162	170	327	6,842
Stateline Wind Project	9,895	10,424	9,455	10,653	8,327	9,021	4,851	4,883	11,206	10,255	10,223	4,449	4,684	7,425	115,754
Total NUG: Renewable	37,383	40,410	41,379	44,470	35,622	36,428	17,990	18,109	39,761	35,897	36,706	16,118	16,967	31,721	448,960
-Total Non-Utility Generating Resources-															
Federal Entities	41,811	48,644	51,554	54,195	43,242	44,784	24,812	24,935	53,113	44,321	43,274	16,670	17,547	32,883	541,785
Total Federal Entities	41,811	48,644	51,554	54,195	43,242	44,784	24,812	24,935	53,113	44,321	43,274	16,670	17,547	32,883	541,785

Table A-23: Non-Utility Generating Resources
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	329	320	328	344	288	312	151	168	328	304	344	152	160	320	3,848
Dworshak Small Hydropower	865	842	863	905	757	821	397	442	863	800	905	400	421	842	10,120
Total NUG Hydro	1,194	1,162	1,191	1,249	1,045	1,133	548	610	1,191	1,104	1,249	552	581	1,162	13,968
-NUG: Renewable-															
Ashland Solar Project	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
Condon Wind Project	3,685	4,256	4,494	4,438	3,600	3,744	2,099	2,335	4,067	4,438	3,646	1,566	1,648	3,232	47,248
Foote Creek 1	1,842	2,656	3,312	3,646	2,764	2,246	876	974	1,509	1,246	1,135	502	528	1,216	24,452
Foote Creek 2	230	320	426	447	346	281	106	118	164	152	138	61	64	160	3,012
Foote Creek 4	2,139	3,104	3,870	4,231	3,254	2,621	1,012	1,126	1,771	1,459	1,307	593	624	1,408	28,519
Fourmile Hill Geothermal	16,417	15,968	16,367	17,166	14,371	15,569	7,535	8,383	16,367	15,170	17,166	7,585	7,984	15,968	192,015
Klondike Phase 1	2,665	2,816	2,558	2,855	2,246	2,434	1,299	1,445	2,886	2,766	2,752	1,201	1,264	1,984	31,171
Nine Canyon Wind Project	509	866	895	1,034	712	512	212	236	461	408	337	162	170	327	6,842
Stateline Wind Project	9,895	10,424	9,455	10,653	8,327	9,021	4,851	5,397	10,685	10,255	10,223	4,449	4,684	7,425	115,746
Total NUG: Renewable	37,383	40,410	41,379	44,470	35,622	36,428	17,990	20,015	37,912	35,897	36,706	16,118	16,967	31,721	449,017
-Total Non-Utility Generating Resources-															
Federal Entities	38,577	41,572	42,569	45,719	36,667	37,561	18,538	20,625	39,103	37,000	37,955	16,670	17,547	32,883	462,986
Total Federal Entities	38,577	41,572	42,569	45,719	36,667	37,561	18,538	20,625	39,103	37,000	37,955	16,670	17,547	32,883	462,986

2.8 REGIONAL HYDRO INCLUDING NUG HYDRO

The Secondary Revenue Forecast uses the generation from regional regulated and independent hydro projects, plus NUG hydro projects produced by Independent Power Producers. Using the hydro regulation study developed for this rate case analysis, BPA estimates all the regional hydro generation energy by month for each of the 50 water years of record (1929 through 1978). The summary of the 50-water year regional hydro for FY 2004-2006 is shown in Subsection 2.8.1, Tables 2.13 through 2.15.

**2.8.1 TOTAL REGIONAL HYDRO
(Including NUG hydro)**

**Monthly Energy
In Megawatt Hours Analysis
For FY 2004-2006**

Table 2-13
FY 2003-2004
Pacific Northwest Regional Hydro Resources
Including NUG Hydro
2003 Safety Net CRAC Initial Proposal
Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Aug1	Aug16	Sep	Avg
1929	12,879	12,656	13,244	13,345	9,106	10,409	11,728	10,775	13,990	17,047	14,082	15,585	11,050	10,214	12,628
1930	10,972	12,766	12,919	11,024	11,670	11,001	12,922	11,293	12,610	15,569	14,411	12,719	11,019	9,592	12,209
1931	10,560	12,704	12,818	11,532	9,614	10,606	12,420	10,459	13,160	15,299	13,406	13,388	11,630	9,516	11,930
1932	10,667	12,479	11,892	10,745	9,741	13,622	18,220	20,720	21,161	21,567	17,438	13,282	10,659	9,386	14,178
1933	12,534	13,459	13,043	20,241	16,493	12,773	15,448	14,306	17,682	25,668	22,528	15,014	13,688	10,176	16,152
1934	15,967	14,562	22,104	25,865	21,946	18,879	22,343	21,499	21,768	14,031	14,226	16,137	16,441	11,496	18,254
1935	11,444	13,318	13,129	19,388	18,709	13,351	13,163	14,656	16,586	18,502	17,372	12,659	10,248	9,626	14,732
1936	11,757	13,025	12,777	13,957	9,973	11,176	11,048	16,803	21,918	18,910	14,264	15,878	11,889	9,918	13,790
1937	11,494	12,930	12,922	12,037	9,084	10,397	10,871	11,176	12,593	15,883	13,854	14,344	11,292	9,637	12,056
1938	11,772	13,448	13,063	21,076	13,092	14,898	16,508	17,997	22,549	19,621	16,889	13,656	11,066	9,706	15,477
1939	12,489	12,913	13,233	16,920	11,200	12,550	13,686	15,111	18,463	15,089	14,551	14,221	10,627	10,490	13,727
1940	12,462	12,851	13,021	15,169	11,754	16,189	15,028	16,674	16,422	14,733	13,334	14,974	11,464	9,682	13,724
1941	12,028	12,339	13,006	14,999	10,156	10,296	13,562	12,009	14,475	14,702	12,109	13,394	10,816	9,549	12,379
1942	11,456	11,868	15,077	20,591	11,372	9,859	13,748	13,770	16,451	20,413	18,166	13,325	10,911	9,585	14,226
1943	12,156	13,597	13,215	19,767	15,766	17,189	22,185	21,505	22,579	21,791	19,857	16,564	13,293	10,102	16,899
1944	12,803	12,636	13,606	13,716	9,716	9,748	12,098	10,523	13,729	14,316	12,101	15,880	14,251	10,655	12,450
1945	10,706	11,855	12,770	10,852	10,334	10,220	11,856	11,059	17,922	19,642	15,466	13,245	10,088	9,664	12,713
1946	11,702	13,710	13,561	17,439	15,277	17,944	17,067	19,800	23,640	21,193	18,032	12,831	12,515	9,838	16,120
1947	13,033	13,893	15,579	22,661	18,616	17,453	16,498	17,850	20,570	21,141	16,740	16,679	13,712	10,954	16,917
1948	17,917	13,523	15,241	22,608	13,650	15,945	14,909	18,097	25,033	26,690	21,255	15,422	12,290	10,585	17,734
1949	13,721	13,571	13,159	16,444	11,922	19,791	16,974	20,436	22,217	19,629	14,345	16,293	16,946	12,482	16,051
1950	11,993	13,868	13,348	19,431	16,857	21,254	19,736	20,281	20,961	25,472	20,835	13,105	10,670	9,634	17,129
1951	15,669	15,002	20,721	24,610	24,313	19,030	19,656	20,684	23,322	18,953	19,669	16,007	16,799	11,713	19,131
1952	16,722	13,575	15,016	21,903	17,717	14,398	19,354	20,839	24,785	20,389	16,883	16,206	15,573	12,062	17,453
1953	11,888	12,827	13,228	14,625	19,593	14,858	12,526	14,834	19,478	23,488	20,139	16,108	12,359	10,048	15,674
1954	13,592	13,773	13,215	20,566	19,834	15,926	17,988	17,490	21,745	23,658	22,205	16,837	14,114	11,078	17,401
1955	14,772	13,408	13,412	16,269	10,373	10,157	14,281	15,920	15,973	25,772	23,523	18,421	16,970	15,919	16,031
1956	15,329	13,823	19,456	25,278	19,527	18,911	21,144	23,835	24,768	26,593	20,394	16,334	16,068	10,965	19,478
1957	14,352	13,600	13,544	18,710	12,586	16,108	19,063	18,629	25,434	24,809	14,944	16,742	15,297	11,166	16,676
1958	12,615	13,221	13,269	17,810	15,897	16,825	14,361	17,960	22,313	23,457	14,198	14,353	11,453	10,002	15,723
1959	13,256	13,539	15,552	24,138	21,162	14,815	18,239	16,944	20,075	24,112	19,347	14,120	12,099	10,323	17,252
1960	19,249	15,619	17,863	21,426	15,048	15,476	24,095	19,512	18,536	20,759	17,420	16,103	14,372	16,056	17,874
1961	13,189	13,369	13,115	18,509	18,967	17,478	17,049	14,229	21,050	24,559	15,509	17,059	11,369	10,546	16,345
1962	12,933	13,063	12,895	17,017	13,764	10,641	18,344	21,663	18,878	19,112	17,520	14,577	12,550	9,669	14,922
1963	14,346	13,629	15,555	20,862	17,813	11,316	14,334	15,294	18,539	21,018	17,464	16,355	13,415	10,185	15,869
1964	12,765	13,669	13,093	17,087	13,988	11,266	16,199	13,689	18,686	25,799	23,001	16,376	12,923	11,153	15,842
1965	14,904	13,717	17,845	25,970	23,628	18,393	16,656	21,181	22,739	21,688	17,021	16,582	15,421	12,595	18,618
1966	13,998	13,573	13,606	19,882	14,869	12,079	19,519	16,141	18,521	18,216	17,575	16,526	14,530	11,108	15,565
1967	12,533	13,442	13,104	20,791	20,952	14,725	16,541	13,745	17,951	25,472	19,701	16,192	12,244	10,007	16,503
1968	14,187	13,646	13,382	20,766	19,682	16,338	11,510	13,433	15,530	22,289	17,641	16,134	14,372	11,258	16,037
1969	15,554	13,803	16,100	24,210	21,459	16,039	20,678	21,308	25,064	22,191	17,575	16,298	15,545	13,468	18,531
1970	13,551	13,282	13,206	16,460	18,283	13,570	12,684	15,779	18,808	21,271	14,342	14,686	11,712	10,510	15,059
1971	12,340	13,274	13,706	22,946	24,573	18,216	18,015	20,113	24,726	25,410	21,733	14,751	11,396	9,837	18,242
1972	13,595	14,044	13,849	22,430	23,777	24,237	23,587	19,450	24,600	25,794	23,060	17,404	16,591	11,740	19,637
1973	13,640	13,661	13,738	20,906	10,603	11,152	12,441	12,440	14,137	15,705	14,033	18,223	16,916	12,478	14,172
1974	10,707	12,752	16,524	27,268	24,646	21,469	21,557	22,920	23,518	26,620	24,734	13,148	10,327	9,635	19,321
1975	12,337	13,025	13,668	19,174	17,267	16,390	15,706	15,382	20,787	23,025	22,492	17,456	17,566	12,479	16,975
1976	14,874	14,419	21,862	24,988	20,171	18,091	21,336	19,539	24,025	19,826	20,702	15,658	13,770	11,421	18,794
1977	13,737	12,547	13,528	13,764	9,783	9,605	9,721	10,951	13,314	13,292	11,578	19,799	18,841	17,186	13,166
1978	10,558	12,621	13,279	16,485	13,478	17,158	17,061	16,574	20,260	18,105	18,487	13,168	10,372	9,456	14,873

Table 2-14
FY 2004-2005
Pacific Northwest Regional Hydro Resources
Including NUG Hydro
2003 Safety Net CRAC Initial Proposal
Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Aug1	Aug16	Sep	Avg.
1929	12,892	12,668	13,273	13,361	9,115	10,419	11,726	10,797	14,103	17,142	13,554	15,627	11,083	10,224	12,614
1930	10,984	12,780	12,949	11,035	11,682	11,011	12,953	11,362	12,688	15,588	13,865	12,815	11,065	9,602	12,190
1931	10,571	12,717	12,848	11,543	9,625	10,616	12,458	10,455	13,240	15,263	12,874	13,484	11,669	9,526	11,905
1932	10,679	12,492	11,918	10,755	9,751	13,633	18,374	20,878	21,326	21,649	16,921	13,341	10,657	9,396	14,179
1933	12,547	13,471	13,071	20,263	16,514	12,786	15,499	14,423	17,798	25,720	22,014	15,127	13,794	10,187	16,149
1934	15,984	14,575	22,147	25,898	21,973	18,899	22,499	21,657	21,839	13,979	13,686	16,251	16,560	11,511	18,248
1935	11,455	13,330	13,157	19,410	18,732	13,365	13,213	14,724	16,679	18,556	16,837	12,718	10,247	9,639	14,718
1936	11,770	13,039	12,806	13,971	9,983	11,187	11,096	16,860	22,077	18,916	13,721	15,969	11,923	9,929	13,777
1937	11,507	12,944	12,951	12,049	9,095	10,408	10,867	11,190	12,686	15,899	13,306	14,449	11,334	9,647	12,034
1938	11,784	13,462	13,091	21,097	13,109	14,912	16,638	18,185	22,743	19,723	16,376	13,741	11,089	9,717	15,487
1939	12,502	12,926	13,260	16,939	11,212	12,562	13,748	15,252	18,595	15,075	14,008	14,346	10,748	10,502	13,719
1940	12,476	12,865	13,049	15,184	11,766	16,205	15,119	16,793	16,568	14,746	12,784	15,070	11,494	9,692	13,714
1941	12,041	12,352	13,036	15,011	10,167	10,307	13,580	12,017	14,556	14,752	11,577	13,479	10,828	9,559	12,359
1942	11,467	11,880	15,101	20,618	11,384	9,868	13,818	13,887	16,584	20,524	17,647	13,439	10,973	9,595	14,227
1943	12,169	13,609	13,242	19,787	15,781	17,205	22,206	21,527	22,773	21,870	19,466	16,688	13,411	10,112	16,911
1944	12,816	12,647	13,633	13,731	9,726	9,757	12,118	10,540	13,809	14,359	11,570	16,040	14,406	10,664	12,439
1945	10,717	11,867	12,796	10,862	10,343	10,229	11,868	11,086	18,114	19,765	14,942	13,356	10,130	9,674	12,711
1946	11,713	13,723	13,590	17,453	15,293	17,961	17,186	19,940	23,839	21,230	17,518	12,950	12,633	9,848	16,127
1947	13,045	13,906	15,607	22,690	18,634	17,470	16,582	18,003	20,710	21,204	16,224	16,811	13,808	10,966	16,922
1948	17,937	13,535	15,273	22,632	13,663	15,961	14,983	18,281	25,064	26,692	20,754	15,552	12,406	10,596	17,726
1949	13,735	13,583	13,187	16,463	11,933	19,810	17,128	20,618	22,301	19,662	13,814	16,454	17,099	12,495	16,053
1950	12,005	13,880	13,377	19,451	16,875	21,275	19,783	20,466	21,139	25,560	20,375	13,211	10,729	9,643	17,140
1951	15,685	15,013	20,759	24,640	24,341	19,048	19,774	20,878	23,511	19,020	19,160	16,165	16,953	11,724	19,149
1952	16,739	13,588	15,048	21,926	17,736	14,411	19,372	20,859	24,817	20,498	16,374	16,366	15,721	12,076	17,448
1953	11,900	12,840	13,256	14,636	19,614	14,872	12,548	14,974	19,634	23,524	19,674	16,257	12,493	10,058	15,679
1954	13,606	13,786	13,243	20,587	19,856	15,941	18,109	17,648	21,931	23,722	21,709	16,996	14,258	11,090	17,415
1955	14,788	13,421	13,444	16,284	10,384	10,167	14,335	16,004	16,113	25,897	23,031	18,567	17,126	15,942	16,041
1956	15,344	13,834	19,491	25,309	19,548	18,927	21,304	23,862	24,824	26,677	19,890	16,471	16,193	10,977	19,478
1957	14,367	13,612	13,572	18,730	12,597	16,122	19,134	18,815	25,465	24,924	14,426	16,901	15,454	11,177	16,679
1958	12,628	13,234	13,296	17,830	15,912	16,843	14,460	18,125	22,370	23,558	13,680	14,486	11,563	10,012	15,723
1959	13,270	13,552	15,583	24,166	21,187	14,828	18,347	17,047	20,209	24,227	18,832	14,257	12,184	10,333	17,259
1960	19,270	15,632	17,901	21,454	15,065	15,491	24,245	19,633	18,655	20,840	16,896	16,241	14,510	16,078	17,883
1961	13,203	13,383	13,143	18,530	18,987	17,496	17,124	14,299	21,180	24,639	14,966	17,193	11,450	10,559	16,343
1962	12,947	13,075	12,922	17,036	13,779	10,651	18,477	21,856	19,019	19,184	17,008	14,671	12,597	9,679	14,925
1963	14,360	13,642	15,586	20,885	17,831	11,327	14,376	15,337	18,706	21,171	16,944	16,498	13,514	10,195	15,876
1964	12,778	13,681	13,120	17,107	14,004	11,276	16,317	13,811	18,865	25,798	22,525	16,520	13,053	11,166	15,848
1965	14,920	13,731	17,876	26,002	23,653	18,410	16,794	21,256	22,845	21,679	16,560	16,743	15,577	12,609	18,622
1966	14,012	13,587	13,635	19,904	14,887	12,089	19,627	16,205	18,616	18,239	17,042	16,688	14,690	11,121	15,561
1967	12,546	13,455	13,132	20,814	20,977	14,740	16,585	13,792	18,119	25,545	19,202	16,302	12,298	10,018	16,503
1968	14,201	13,660	13,409	20,787	19,703	16,353	11,518	13,451	15,633	22,405	17,118	16,276	14,507	11,271	16,035
1969	15,570	13,816	16,133	24,237	21,484	16,054	20,818	21,478	25,191	22,243	17,062	16,442	15,686	13,485	18,541
1970	13,566	13,295	13,233	16,477	18,302	13,583	12,710	15,833	18,994	21,305	13,841	14,807	11,783	10,521	15,057
1971	12,352	13,285	13,734	22,969	24,600	18,232	18,148	20,288	24,756	25,407	21,291	14,903	11,517	9,846	18,242
1972	13,609	14,056	13,877	22,452	23,803	24,261	23,745	19,587	24,652	25,793	22,566	17,567	16,745	11,753	19,637
1973	13,654	13,673	13,767	20,928	10,615	11,162	12,439	12,443	14,216	15,712	13,489	18,386	17,071	12,492	14,157
1974	10,717	12,764	16,552	27,301	24,674	21,489	21,639	22,980	23,596	26,620	24,304	13,241	10,350	9,645	19,314
1975	12,350	13,037	13,695	19,195	17,286	16,405	15,803	15,516	20,974	23,018	22,160	17,619	17,731	12,493	16,996
1976	14,889	14,431	21,901	25,017	20,194	18,108	21,387	19,724	24,074	19,930	20,206	15,817	13,927	11,433	18,801
1977	13,752	12,560	13,557	13,780	9,793	9,614	9,698	10,940	13,330	13,261	11,040	19,969	19,009	17,212	13,142
1978	10,569	12,633	13,305	16,502	13,491	17,176	17,164	16,679	20,438	18,200	18,006	13,242	10,373	9,466	14,876

Table 2-15
FY 2005-2006
Pacific Northwest Regional Hydro Resources
Including NUG Hydro
2003 Safety Net CRAC Initial Proposal
Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Aug1	Aug16	Sep	Avg.
1929	12,903	12,664	13,268	13,356	9,105	10,410	11,699	10,771	14,085	17,144	13,704	15,665	11,108	10,247	12,626
1930	10,992	12,780	12,945	11,023	11,675	11,004	12,929	11,335	12,668	15,592	14,021	12,842	11,090	9,624	12,202
1931	10,578	12,716	12,845	11,533	9,615	10,608	12,435	10,428	13,224	15,268	12,999	13,515	11,696	9,547	11,914
1932	10,687	12,491	11,911	10,743	9,741	13,628	18,493	21,023	21,470	21,719	17,078	13,373	10,684	9,418	14,223
1933	12,559	13,470	13,066	20,268	16,521	12,782	15,617	14,553	17,938	25,747	22,183	15,162	13,823	10,210	16,193
1934	16,000	14,573	22,157	25,917	21,989	18,906	22,496	21,653	21,842	13,977	13,823	16,287	16,597	11,541	18,270
1935	11,463	13,327	13,150	19,413	18,741	13,363	13,193	14,707	16,666	18,560	16,998	12,749	10,273	9,664	14,734
1936	11,780	13,038	12,803	13,965	9,973	11,179	11,205	16,877	22,223	18,984	13,877	16,006	11,951	9,953	13,816
1937	11,516	12,944	12,947	12,039	9,086	10,401	10,842	11,164	12,663	15,897	13,460	14,480	11,359	9,668	12,045
1938	11,793	13,462	13,087	21,101	13,110	14,911	16,754	18,318	22,890	19,786	16,533	13,772	11,118	9,739	15,533
1939	12,513	12,923	13,255	16,941	11,206	12,557	13,727	15,232	18,586	15,076	14,162	14,376	10,769	10,526	13,733
1940	12,487	12,865	13,045	15,178	11,760	16,208	15,098	16,784	16,555	14,747	12,938	15,105	11,520	9,714	13,729
1941	12,051	12,351	13,033	15,003	10,158	10,299	13,561	12,000	14,542	14,753	11,727	13,508	10,855	9,582	12,372
1942	11,476	11,878	15,096	20,631	11,377	9,860	13,795	13,866	16,571	20,535	17,808	13,466	10,998	9,616	14,243
1943	12,180	13,606	13,235	19,791	15,779	17,207	22,199	21,518	22,921	21,937	19,622	16,726	13,439	10,135	16,946
1944	12,827	12,644	13,627	13,726	9,715	9,748	12,091	10,516	13,793	14,358	11,718	16,072	14,435	10,686	12,450
1945	10,725	11,865	12,790	10,850	10,333	10,220	11,842	11,057	18,103	19,772	15,099	13,383	10,153	9,696	12,723
1946	11,721	13,721	13,586	17,448	15,292	17,965	17,303	20,075	23,989	21,300	17,676	12,976	12,658	9,869	16,173
1947	13,056	13,904	15,601	22,704	18,639	17,474	16,699	18,137	20,840	21,275	16,382	16,848	13,837	10,990	16,969
1948	17,957	13,532	15,273	22,639	13,658	15,964	15,097	18,416	25,069	26,716	20,921	15,585	12,429	10,620	17,759
1949	13,747	13,581	13,180	16,464	11,926	19,817	17,243	20,757	22,330	19,727	13,966	16,489	17,134	12,521	16,089
1950	12,014	13,878	13,373	19,453	16,877	21,286	19,818	20,604	21,284	25,637	20,535	13,238	10,750	9,664	17,184
1951	15,699	15,010	20,764	24,656	24,357	19,054	19,893	21,017	23,661	19,082	19,322	16,196	16,986	11,748	19,200
1952	16,757	13,587	15,045	21,932	17,739	14,409	19,359	20,849	24,821	20,565	16,530	16,401	15,753	12,103	17,472
1953	11,909	12,838	13,252	14,627	19,622	14,872	12,662	15,103	19,775	23,539	19,833	16,291	12,515	10,080	15,719
1954	13,619	13,785	13,237	20,590	19,864	15,941	18,227	17,778	22,079	23,798	21,875	17,031	14,286	11,115	17,464
1955	14,803	13,419	13,443	16,279	10,375	10,159	14,315	15,990	16,247	25,977	23,203	18,608	17,161	15,980	16,077
1956	15,359	13,830	19,493	25,326	19,554	18,932	21,428	23,859	24,828	26,756	20,053	16,506	16,228	11,001	19,512
1957	14,379	13,609	13,567	18,732	12,590	16,122	19,211	18,951	25,471	25,002	14,579	16,936	15,484	11,201	16,712
1958	12,638	13,232	13,289	17,831	15,911	16,847	14,572	18,258	22,367	23,634	13,832	14,514	11,584	10,034	15,757
1959	13,281	13,549	15,580	24,179	21,201	14,827	18,466	17,182	20,355	24,303	18,993	14,286	12,209	10,356	17,308
1960	19,291	15,632	17,903	21,467	15,065	15,490	24,376	19,775	18,797	20,908	17,054	16,277	14,541	16,115	17,934
1961	13,215	13,382	13,137	18,533	18,994	17,500	17,244	14,432	21,330	24,719	15,123	17,230	11,473	10,584	16,392
1962	12,959	13,072	12,916	17,038	13,777	10,643	18,594	22,000	19,161	19,249	17,167	14,703	12,625	9,700	14,970
1963	14,374	13,640	15,584	20,891	17,834	11,319	14,357	15,321	18,696	21,181	17,103	16,534	13,542	10,218	15,893
1964	12,789	13,679	13,114	17,108	14,004	11,269	16,426	13,941	19,003	25,817	22,694	16,556	13,080	11,192	15,889
1965	14,936	13,731	17,872	26,020	23,667	18,414	16,909	21,303	22,915	21,688	16,712	16,779	15,609	12,637	18,657
1966	14,025	13,587	13,629	19,908	14,889	12,083	19,619	16,189	18,608	18,244	17,204	16,722	14,717	11,147	15,579
1967	12,557	13,452	13,127	20,820	20,989	14,740	16,706	13,924	18,255	25,609	19,363	16,341	12,323	10,040	16,550
1968	14,213	13,658	13,403	20,791	19,709	16,355	11,493	13,433	15,617	22,419	17,277	16,313	14,539	11,296	16,052
1969	15,586	13,814	16,132	24,250	21,497	16,054	20,941	21,619	25,293	22,317	17,219	16,480	15,717	13,516	18,588
1970	13,578	13,293	13,227	16,474	18,306	13,581	12,823	15,972	19,130	21,312	13,993	14,840	11,808	10,544	15,097
1971	12,362	13,282	13,728	22,976	24,616	18,235	18,263	20,426	24,760	25,425	21,454	14,932	11,538	9,866	18,274
1972	13,621	14,054	13,871	22,458	23,818	24,274	23,874	19,725	24,655	25,813	22,736	17,604	16,780	11,779	19,673
1973	13,667	13,671	13,763	20,932	10,607	11,155	12,417	12,424	14,197	15,716	13,643	18,426	17,106	12,519	14,171
1974	10,724	12,761	16,546	27,321	24,691	21,499	21,732	23,000	23,614	26,641	24,475	13,272	10,374	9,666	19,344
1975	12,360	13,033	13,689	19,199	17,291	16,406	15,920	15,647	21,115	23,029	22,325	17,655	17,766	12,521	17,039
1976	14,902	14,428	21,907	25,032	20,205	18,113	21,430	19,861	24,075	19,993	20,372	15,848	13,952	11,459	18,836
1977	13,766	12,556	13,551	13,776	9,783	9,605	9,671	10,918	13,314	13,260	11,162	20,013	19,046	17,254	13,154
1978	10,576	12,630	13,295	16,499	13,486	17,180	17,284	16,815	20,580	18,260	18,163	13,273	10,399	9,488	14,920