

B o n n e v i l l e P o w e r A d m i n i s t r a t i o n
P o w e r B u s i n e s s L i n e

2003 Safety-Net Cost Recovery Adjustment

Clause Initial Proposal

Documentation – Volume 1

(Chapters 1 – 3, 5 – 7)

SN-03-E-BPA-02

March 2003



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
Bonnars 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
-------	-------	--------

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 show 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

<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>
<u>Non-Utility Obligations</u>															
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
<u>Transfers Out</u>															
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
<u>Hydro Resources</u>															
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
<u>Other Resources</u>															
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
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Initial Proposal**

1/23/2003

<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>
<u>Non-Utility Obligations</u>															
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	146	148	139	131	121	121	118	124	122	119	119	112	127
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	561	506	512	513	502	518	685	685	739	762	801	748	748	655	625
<u>Transfers Out</u>															
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	2,496	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
GPU 2002 PSC Sale	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
NGP Slice Sale	592	675	652	622	486	534	525	517	636	789	673	797	580	500	614
GPU Slice Sale	987	1,124	1,086	1,036	810	889	874	861	1,058	1,313	1,121	1,327	966	832	1,023
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	1,092	1,079	1,112	980	976	939	963	963	982	1,060	1,074	1,048	1,048	1,040	1,029
Intra-Regional Transfers (Out)	600	915	915	720	652	503	420	420	221	382	353	250	251	290	518
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	8,099	9,320	9,958	9,663	8,979	8,404	7,970	7,938	7,890	8,338	8,076	8,330	7,753	7,444	8,514
Total Firm Obligations	8,660	9,826	10,470	10,176	9,481	8,921	8,655	8,622	8,629	9,100	8,877	9,077	8,500	8,099	9,139
<u>Hydro Resources</u>															
Regulated Hydro	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
Independent Hydro	385	305	236	176	196	274	433	515	710	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	142	142	142	142	142	142	142	142	142
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	6,707	7,626	7,339	6,973	5,332	5,923	5,943	5,854	7,326	9,204	7,839	9,304	6,679	5,669	6,986
<u>Other Resources</u>															
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	294	365	422	371	327	294	275	237	100	122	203	182	182	215	263
Intra-Regional Transfers (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
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	78	104	107	110	100	93	115	115	108	96	76	84	82	59	94
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	3,522	3,678	3,632	3,593	3,512	3,487	3,149	2,711	2,406	2,428	3,271	3,282	3,282	3,359	3,258
Total Resources	10,229	11,304	10,970	10,566	8,844	9,410	9,092	8,565	9,732	11,631	11,110	12,586	9,961	9,028	10,244
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	-288	-319	-309	-298	-249	-265	-256	-242	-274	-328	-313	-355	-281	-255	-289
Total Res., Maint. & Losses	-288	-319	-309	-298	-249	-265	-256	-242	-274	-328	-313	-355	-281	-255	-289
Total Net Resources	9,941	10,986	10,661	10,268	8,595	9,145	8,836	8,323	9,458	11,303	10,796	12,231	9,680	8,773	9,955
Total Firm Surplus/Deficit	1,281	1,160	191	91	-887	224	181	-299	829	2,203	1,919	3,154	1,179	674	816

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

<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>
<u>Non-Utility Obligations</u>															
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
<u>Transfers Out</u>															
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
<u>Hydro Resources</u>															
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
<u>Other Resources</u>															
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
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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

<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>
<u>Non-Utility Obligations</u>															
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
<u>Transfers Out</u>															
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
<u>Hydro Resources</u>															
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
<u>Other Resources</u>															
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
<u>Reserves & Maintenance</u>															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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**

<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>
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**

<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>
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**

<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>
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**

<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>
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**

<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>
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**

<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>
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**

<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>
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**

<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>
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**

<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>
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**

<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>
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**

<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>
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**

<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>
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	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**

<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>
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	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	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
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

<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>
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	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	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

<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>
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	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	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**

<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>
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	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	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**

<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
 2003 - 2004 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
 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**

<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-10: Large Thermal
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>
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**

<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>
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**

<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>
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**

<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>
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	0.0	0.0	0.0	0.0	0.0	0.0	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
MTRF 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	0.0	0.0	0.0	0.0	0.0	0.0	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
MTRF 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	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	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**

<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>
-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**

<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>
<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	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>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>
<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	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>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>
<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	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>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>
<i>-Generating Public Entities-</i>															
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
<i>-Small & Non-Gen Public Entities-</i>															
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
<i>-Investor-Owned Entities-</i>															
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
<i>-Other Entities-</i>															
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
<i>-CSPE-</i>															
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	0	0	0	0	0	0	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**

<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>
<i>-Generating Public Entities-</i>															
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
<i>-Small & Non-Gen Public Entities-</i>															
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
<i>-Investor-Owned Entities-</i>															
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
<i>-Other Entities-</i>															
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
<i>-CSPE-</i>															
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**

<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>
<i>-Generating Public Entities-</i>															
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
<i>-Small & Non-Gen Public Entities-</i>															
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
<i>-Investor-Owned Entities-</i>															
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
<i>-Other Entities-</i>															
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
<i>-CSPE-</i>															
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**

<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>
<i>-Generating Public Entities-</i>															
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
<i>-Small & Non-Gen Public Entities-</i>															
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
<i>-Investor-Owned Entities-</i>															
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
<i>-Other Entities-</i>															
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
<i>-CSPE-</i>															
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**

<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>
Supplemental & Entitlement Capacity															
<i>-Deliveries-</i>															
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 MTRF 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	0	0	0	0	0	0	0	21
<i>-Replacement-</i>															
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
MTRF 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	0	0	0	0	0	0	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**

<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>
<i>-Total Deliveries-</i>															
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	0	0	0	0	0	0	0	21
<i>-Total Replacement-</i>															
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	0	0	0	0	0	0	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**

<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>
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	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
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>
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	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>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>
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	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**

<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>
-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**

<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>
<i>-Rocky Reach CER for Canada-</i>															
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
<i>-Wells CER for Canada-</i>															
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
<i>-Total CER For Canada-</i>															
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**

<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>
<i>-BPA Canada-</i>															
BPA to BPA	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395
BPA: Regional Totals	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395
<i>-Priest Rapids CER for Canada-</i>															
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	30	30	30	30	30	30	30	30	30	30	30	30	30	30
<i>-Wanapum CER for Canada-</i>															
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	29	29	29	29	29	29	29	29	29	29	29	29	29	29
<i>-Rock Island P.H. #1 CER for Canada-</i>															
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	11	11	11	11	11	11	11	11	11	11	11	11	11	11
<i>-Rock Island P.H. #2 CER for Canada-</i>															
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	7	7	7	7	7	7	7	7	7	7	7	7	7	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**

<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>
<i>-Rocky Reach CER for Canada-</i>															
AWWP 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	39	39	39	39	39	39	39	39	39
<i>-Wells CER for Canada-</i>															
AWWP 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	25	25	25	25	25	25	25	25	25
<i>-Total CER For Canada-</i>															
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	537	537	537	537	537	537	537	537	537	537	537	537	537	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**

<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>
-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	30	30	30	30	30	30	30	30	30	30	30	30	30	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	29	29	29	29	29	29	29	29	29	29	29	29	29	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	11	11	11	11	11	11	11	11	11	11	11	11	11	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	7	7	7	7	7	7	7	7	7	7	7	7	7	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**

<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>
<i>-Rocky Reach CER for Canada-</i>															
AWWP 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	38	38	38	38	38	38	38	39
<i>-Wells CER for Canada-</i>															
AWWP 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	25	25	25	25	25	25	25	25	25
<i>-Total CER For Canada-</i>															
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	537	537	537	537	537	537	537	537	537	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**

<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>
-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	30	30	30	30	30	30	30	30	30	30	30	30	30	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	29	29	29	29	29	29	29	29	29	29	29	29	29	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	11	11	11	11	11	11	11	11	11	11	11	11	11	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	7	7	7	7	7	7	7	7	7	7	7	7	7	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**

<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>
<i>-Rocky Reach CER for Canada-</i>															
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
<i>-Wells CER for Canada-</i>															
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
<i>-Total CER For Canada-</i>															
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**

<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>
<i>-Intra-Regional Transfers-</i>															
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
<i>-Total Contracts Out-</i>															
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
<i>-Total Contracts In-</i>															
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**

<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>
<i>-Intra-Regional Transfers-</i>															
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
<i>-Total Contracts Out-</i>															
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
<i>-Total Contracts In-</i>															
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**

<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>
<i>-Intra-Regional Transfers-</i>															
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
<i>-Total Contracts Out-</i>															
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
<i>-Total Contracts In-</i>															
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**

<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>
<i>-Intra-Regional Transfers-</i>															
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
<i>-Total Contracts Out-</i>															
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
<i>-Total Contracts In-</i>															
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**

<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>
Hydro Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
-Federal Entities-															
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**

<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>
Hydro Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
-Federal Entities-															
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**

<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>
Hydro Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
-Federal Entities-															
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**

<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>
Hydro Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
-Federal Entities-															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
-Federal Entities-															
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**

<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	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**

<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	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**

<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	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**

<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>
-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
Elwah 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
Footo Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Footo Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Footo 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**

<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>
<i>-Non-Utility Generation: Hydro-</i>															
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
Elwah 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
<i>-NUG: Renewable-</i>															
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
Footo Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Footo Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Footo 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
<i>-Total Non-Utility Generating Resources-</i>															
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**

<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>
<i>-Non-Utility Generation: Hydro-</i>															
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
Elwah 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
<i>-NUG: Renewable-</i>															
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
Footo Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Footo Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Footo 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
<i>-Total Non-Utility Generating Resources-</i>															
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**

<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>
-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
Staleline 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**

<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 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	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**

<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 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**

<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 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**

<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 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**

<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>
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
PPLS 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**

<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>
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
PPLS 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**

<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>
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
PPLS 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**

<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>
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
PPLS 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**

<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	11,136	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**

<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	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**

<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	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**

<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>
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**

<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>
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**

<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>
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**

<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>
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**

<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>
<i>-BPA CER for CSPE-</i>															
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
<i>-Priest Rapids CER for CSPE-</i>															
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
<i>-Wanapum CER for CSPE-</i>															
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
<i>-Rock Island P.H. #1 CER for CSPE-</i>															
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
<i>-Rock Island P.H. #2 CER for CSPE-</i>															
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**

<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>
<i>-Rocky Reach CER for CSPE-</i>															
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
<i>-Wells CER for CSPE-</i>															
AVWP 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
<i>-Total CER For CSPE-</i>															
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>
<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	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>
<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	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>
<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	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>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>
<i>-Generating Public Entities-</i>															
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
<i>-Small & Non-Gen Public Entities-</i>															
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
<i>-Investor-Owned Entities-</i>															
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
<i>-Other Entities-</i>															
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
<i>-CSPE-</i>															
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**

<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>
<i>-Generating Public Entities-</i>															
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
<i>-Small & Non-Gen Public Entities-</i>															
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
<i>-Investor-Owned Entities-</i>															
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
<i>-Other Entities-</i>															
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
<i>-CSPE-</i>															
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**

<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>
<i>-Generating Public Entities-</i>															
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
<i>-Small & Non-Gen Public Entities-</i>															
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
<i>-Investor-Owned Entities-</i>															
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
<i>-Other Entities-</i>															
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
<i>-CSPE-</i>															
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**

<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>
<i>-Generating Public Entities-</i>															
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
<i>-Small & Non-Gen Public Entities-</i>															
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
<i>-Investor-Owned Entities-</i>															
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
<i>-Other Entities-</i>															
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
<i>-CSPE-</i>															
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**

<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															
<i>-Deliveries-</i>															
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
<i>-Replacement-</i>															
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**

<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>
<i>-Total Deliveries-</i>															
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
<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
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															
<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	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
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															
<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	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>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															
<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	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**

<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	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**

<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>
<i>-Rocky Reach CER for Canada-</i>															
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
<i>-Wells CER for Canada-</i>															
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
<i>-Total CER For Canada-</i>															
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**

<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>
<i>-BPA Canada-</i>															
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
<i>-Priest Rapids CER for Canada-</i>															
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
<i>-Wanapum CER for Canada-</i>															
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
<i>-Rock Island P.H. #1 CER for Canada-</i>															
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
<i>-Rock Island P.H. #2 CER for Canada-</i>															
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**

<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>
<i>-Rocky Reach CER for Canada-</i>															
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
<i>-Wells CER for Canada-</i>															
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
<i>-Total CER For Canada-</i>															
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**

<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>
<i>-Rocky Reach CER for Canada-</i>															
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
<i>-Wells CER for Canada-</i>															
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
<i>-Total CER For Canada-</i>															
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

<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	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

**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**

<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>
<i>-Rocky Reach CER for Canada-</i>															
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
<i>-Wells CER for Canada-</i>															
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
<i>-Total CER For Canada-</i>															
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**

<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>
<i>-Intra-Regional Transfers-</i>															
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
<i>-Total Contracts Out-</i>															
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
<i>-Total Contracts In-</i>															
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>
<i>-Intra-Regional Transfers-</i>															
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
<i>-Total Contracts Out-</i>															
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
<i>-Total Contracts In-</i>															
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**

<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>
<i>-Intra-Regional Transfers-</i>															
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	23,148	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
<i>-Total Contracts Out-</i>															
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
<i>-Total Contracts In-</i>															
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**

<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>
<i>-Intra-Regional Transfers-</i>															
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
<i>-Total Contracts Out-</i>															
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
<i>-Total Contracts In-</i>															
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**

<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>
-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	0	0	0	0	0	0	0	0	0	0	0	0	0	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**

<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>
-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	0	0	0	0	0	0	0	0	0	0	0	0	0	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**

<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>
-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	0	0	0	0	0	0	0	0	0	0	0	0	0	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**

<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>
-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>
<i>-Non-Utility Generation: Hydro-</i>															
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
Elwah 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
<i>-NUG: Renewable-</i>															
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
Foot 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
Foot Creek 2	302	400	520	541	461	374	146	146	208	200	166	83	83	200	3,830
Foot 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
Statenline 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
<i>-Total Non-Utility Generating Resources-</i>															
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
Elwah 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
Footo 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
Footo Creek 2	302	384	541	541	461	389	146	146	200	208	166	77	90	200	3,850
Footo 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
Elwah 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
Stataline 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

