

**2003 Safety-Net Cost Recovery Adjustment Clause
Final Proposal**

**Documentation for Chapter 2
Loads and Resources**

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) Final 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.

Slice is a public preference power sales contract product based on the customer's net requirements that provides firm and secondary energy using a fixed percentage of the output generated by Federal system Slice resources. The slice product was contracted for 10 years and differs from traditional power sales contract products in that the power is made available based on the shape of the generation output of specific Federal system Slice resources. 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.

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.

The customers purchasing each product (Full Service, Partial Service, Slice/Block, and Block) are listed in Tables 2-1 through 2-4, respectively.

Table 2-1
Full Service Customers

Alder	Ellensburg	Oregon Trail
Ashland	Emerald	Pacific County
Bandon	EnergyNW	Peninsula
Bangor	Fairchild	Plummer
Benton REA	Ferry	Port Angeles
BIA-Wapato	Forest Grove	Richland
Big Bend	Harney	Rupert
Blaine	Hermiston	Salem
Bonners Ferry	Heyburn	Skamania
Bremerton	Hood River	Steilacoom
Bureau of Mines	Idaho County	Sumas
Burley	Jim Creek	Surprise Valley
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 Irrigation 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	Idaho Falls	Seattle
Clearwater	Lane Electric	Snohomish
Consumers Power	Lost River	Umatilla
Coos-Curry	Northern Lights	West Oregon
Douglas Electric	Okanogan Coop	
EWEB	Okanogan PUD	

Table 2-4
Block Customers

Clark	Grant	Tacoma
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2.3 INVESTOR-OWNED UTILITIES SALES FORECAST

In this Study, the IOU sales are forecasted to be 382 aMW for FY 2003 through 2006 (*see SN-03 Study, SN-03-FS-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 through 2006. Of the 382 aMW in sales contracts, BPA bought back 124 aMW each year for FY 2003 through 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, DSIs sales are forecasted to be 35 aMW, 31 aMW, 81 aMW, and 138 aMW in FY 2003 through 2006 (*see SN-03 Study, SN-03-FS-BPA-01, Chapter 2*). 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 (BiOp) 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 projected, for the rate period. This irrigation pumping provides water to the Columbia Basin Project. The Bureau of Reclamation (Reclamation) provided the pumping schedule 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. Due to projected below normal runoff for the FY 2003 water year, the 50 year modified flow set was weighted to reflect the latest projections for the 2003 April through September runoff. The latest Northwest River Forecast Center volume forecast, the May "Final" of 82.2 million acre feet (maf), was used to base the weightings at the time of this analysis. The result was a weighted 50 year set of years with a weighted mean of 83.3 maf for April through September. In addition to having a weighted mean of 83.3 maf, the set was also truncated above 101 maf and below 68 maf (all years above 101 maf and below 68 maf were weighted zero) to reflect the less than 1 percent probability of occurring cutoff. The resulting set of years with weights greater than zero contained a subset of 22 years out of the original 50 year set. For years FY 2004 through 2006, all 50 water years, equally weighted, were used.

2.6.2.2 Differences in Hydroregulation Studies for FY 2003 and FY 2004 through 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

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.

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 through 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 through 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 spring operations, such as bypass spill and flow for steelhead, 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 September. The 2000 BiOp's calls for Non-Treaty Storage to be operated to provide flow augmentation water by storing in May through June and

releasing in July through 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-FS-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 Final 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 Final Proposal

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

2.6.3 Hydro Output

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

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

Table 2-7
FY 2002-2003
Federal Hydro Generation
Estimated From Refill Study Reflecting 4/1/2003 Reservoir Elevations

2003 Safety Net CRAC Final Proposal
Energy in Average Megawatts

Water Year	WY Wt.	Apr	May	Jun	Jul	Aug	Sep	6-Month Avg.
1,929	0.003	6,336	7,819	8,037	6,413	7,860	5,545	7,001
1,930	0.010	7,974	8,110	6,749	6,405	8,349	6,037	7,271
1,931	0.000	6,733	8,350	7,274	5,853	7,220	5,861	6,882
1,932	0.000	12,997	13,573	11,454	9,865	9,234	5,920	10,507
1,933	0.000	10,724	12,159	15,122	13,027	10,245	7,023	11,383
1,934	0.009	13,158	12,197	8,553	8,119	8,578	6,135	9,457
1,935	0.050	10,085	10,964	8,805	9,840	9,071	6,126	9,148
1,936	0.041	10,841	12,825	9,137	7,569	8,658	5,742	9,129
1,937	0.024	5,854	10,251	7,349	6,202	7,518	6,073	7,208
1,938	0.000	12,660	13,712	10,570	9,428	8,515	6,405	10,215
1,939	0.176	10,699	10,129	6,815	7,443	8,246	5,945	8,213
1,940	0.156	10,601	9,954	6,282	6,350	7,619	5,914	7,787
1,941	0.002	5,690	9,242	7,048	6,597	7,331	6,418	7,054
1,942	0.054	8,393	9,646	10,876	10,453	8,549	6,148	9,011
1,943	0.000	14,794	13,309	12,111	10,855	8,835	5,978	10,980
1,944	0.000	5,593	8,830	6,374	5,664	6,738	6,433	6,605
1,945	0.179	7,446	10,821	10,238	7,813	7,790	5,563	8,278
1,946	0.000	13,296	13,760	11,384	10,833	9,489	6,481	10,874
1,947	0.000	12,400	13,530	10,938	10,050	8,725	6,281	10,321
1,948	0.000	11,678	14,690	15,678	12,121	10,055	6,816	11,840
1,949	0.002	12,953	13,795	10,511	7,213	7,116	5,572	9,526
1,950	0.000	13,331	13,143	15,045	11,450	10,056	6,559	11,597
1,951	0.000	14,262	13,579	11,143	9,764	9,895	6,650	10,882
1,952	0.000	14,287	14,621	11,566	8,991	8,204	6,104	10,629
1,953	0.000	9,803	12,030	12,820	10,953	9,117	6,290	10,169
1,954	0.000	11,868	13,495	14,048	11,959	10,748	9,406	11,921
1,955	0.001	8,453	9,427	13,008	13,449	9,307	6,165	9,968
1,956	0.000	14,585	14,251	15,499	11,178	9,821	6,297	11,938
1,957	0.000	11,541	13,881	14,542	8,525	8,382	6,128	10,500
1,958	0.000	11,888	13,546	11,818	7,927	8,571	6,185	9,989
1,959	0.000	12,539	12,905	14,008	11,504	9,752	8,507	11,536
1,960	0.001	13,345	11,378	10,437	10,236	8,053	6,305	9,959
1,961	0.000	10,495	13,174	14,816	8,821	8,836	5,905	10,341
1,962	0.003	13,194	11,347	9,817	9,856	8,350	5,936	9,750
1,963	0.076	8,705	10,404	9,229	10,116	8,532	6,706	8,949
1,964	0.000	10,422	12,150	14,222	13,129	9,719	6,868	11,085
1,965	0.000	14,195	14,027	12,471	9,238	9,431	6,600	10,994
1,966	0.106	10,962	9,939	8,259	9,795	9,034	6,042	9,005
1,967	0.000	10,191	13,071	14,209	11,082	9,607	7,195	10,892
1,968	0.047	8,467	9,033	9,587	10,834	10,125	7,544	9,265
1,969	0.000	14,592	14,422	12,168	10,087	8,465	6,050	10,964
1,970	0.060	9,158	11,338	11,161	7,296	7,461	5,910	8,721
1,971	0.000	13,688	13,977	14,812	11,456	10,057	6,331	11,720
1,972	0.000	13,172	13,842	14,979	13,068	10,670	7,286	12,169
1,973	0.000	5,614	9,206	6,628	6,430	7,776	5,704	6,893
1,974	0.000	14,816	13,723	15,050	13,978	10,279	7,185	12,505
1,975	0.000	11,000	13,401	13,101	12,394	8,556	6,187	10,773
1,976	0.000	13,806	14,124	11,266	11,202	11,583	10,052	12,005
1,977	0.000	5,126	8,206	7,098	4,743	6,976	6,121	6,378
1,978	0.000	12,622	12,432	9,406	10,428	8,145	7,974	10,168
Weighted Average		10,941	11,955	11,070	9,560	8,825	6,492	9,807

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

Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	6,459	7,216	7,418	8,296	5,324	6,191	5,551	6,259	8,868	8,814	8,919	5,606	7,077
1930	6,707	7,410	7,381	5,556	6,600	6,252	6,081	6,188	8,715	9,091	7,883	5,454	6,943
1931	6,639	7,369	7,434	5,618	5,349	5,959	6,003	6,857	8,044	7,885	8,356	5,622	6,761
1932	6,512	7,220	7,340	5,663	5,148	7,824	11,914	13,346	12,439	10,309	7,958	5,650	8,444
1933	6,705	6,894	8,565	11,552	10,212	6,184	7,954	11,240	15,340	13,407	10,025	5,907	9,499
1934	8,164	9,199	14,260	15,703	13,261	10,495	13,827	12,642	7,849	9,811	10,201	6,678	11,007
1935	6,379	6,848	7,970	10,837	11,076	5,500	8,310	10,286	10,970	10,273	7,235	5,383	8,422
1936	6,627	7,245	7,387	6,528	5,369	6,492	7,536	14,860	10,451	8,917	8,822	5,622	7,988
1937	6,693	7,309	7,363	5,895	5,592	6,180	5,880	6,835	8,056	8,242	8,502	5,505	6,838
1938	6,909	7,134	7,493	11,911	7,550	9,178	10,006	13,625	11,421	9,733	7,980	5,487	9,035
1939	6,788	7,252	7,368	8,780	5,733	6,944	7,731	11,923	8,731	9,070	7,971	6,025	7,860
1940	6,935	7,165	7,643	7,958	6,800	9,469	8,822	10,162	9,720	8,247	8,697	5,511	8,094
1941	6,656	7,012	8,166	8,711	5,406	6,314	5,534	7,618	9,159	7,413	7,809	5,444	7,103
1942	6,593	6,864	10,282	12,064	6,227	5,537	7,026	9,811	13,041	10,992	7,758	5,949	8,512
1943	6,656	7,032	7,947	11,087	9,854	10,056	13,403	13,536	12,661	11,137	9,970	5,895	9,936
1944	6,797	7,300	7,344	8,790	5,427	5,635	5,472	6,213	7,736	7,205	9,781	5,901	6,967
1945	6,422	7,251	7,341	5,725	5,981	6,016	5,712	10,041	11,764	8,973	7,483	5,599	7,359
1946	6,827	7,262	7,436	9,381	9,048	10,160	11,110	14,002	11,966	10,922	8,444	5,350	9,326
1947	6,642	7,231	11,398	12,372	11,051	10,513	9,346	12,843	11,554	10,434	9,831	6,191	9,950
1948	9,500	8,539	9,890	12,237	7,837	8,645	10,088	15,492	16,316	11,460	9,465	5,969	10,453
1949	7,021	7,121	8,259	9,520	7,633	11,601	10,702	14,042	11,339	8,113	10,489	7,138	9,415
1950	6,682	7,014	7,058	9,855	11,603	12,581	11,736	12,590	15,074	11,647	7,488	5,094	9,869
1951	7,981	9,211	12,646	14,201	13,917		11,995	14,062	10,513	11,527	9,879	6,404	11,097
1952	8,793	7,453	10,456	11,936	9,612	9,206	12,322	15,353	11,670	9,426	10,263	6,790	10,273
1953	6,628	7,367	7,376	8,550	11,081	6,811	6,998	12,206	14,794	11,753	9,171	5,810	9,045
1954	6,991	7,344	9,184	10,660	11,395	8,640	10,478	13,203	14,219	12,682	9,766	6,234	10,066
1955	7,765	8,026	9,343	8,042	5,848	5,711	6,850	9,504	15,851	14,076	11,139	9,655	9,317
1956	7,599	8,410	12,219	14,919	10,289	11,790	13,223	15,326	15,808	11,966	10,451	6,090	11,508
1957	7,156	7,081	9,410	10,267	6,699	8,158	11,555	14,857	15,433	9,693	10,186	6,159	9,721
1958	6,812	7,249	7,564	9,630	9,695	8,916	9,343	13,976	13,478	9,126	8,321	5,691	9,150
1959	6,662	7,902	10,410	14,235	11,826	8,967	9,818	11,780	14,069	12,455	8,522	5,818	10,205
1960	10,343	9,846	11,550	11,895	7,879	8,723	13,061	11,170	11,976	10,469	9,893	9,371	10,515
1961	6,860	7,525	8,212	10,330	10,581	9,831	10,380	12,102	15,377	9,872	9,167	5,902	9,678
1962	6,752	7,229	7,222	10,178	6,621	6,244	12,389	11,391	10,848	10,765	8,875	5,437	8,663
1963	7,419	8,088	10,372	10,590	8,680	7,753	7,458	12,426	11,569	10,392	9,451	5,748	9,162
1964	6,522	7,305	7,715	10,000	7,625	6,182	8,746	10,817	15,457	13,442	10,065	6,330	9,184
1965	7,929	7,464	12,544	15,612	13,412	11,182	11,208	13,762	12,667	9,833	10,190	7,124	11,077
1966	7,327	7,531	9,315	11,469	7,257	6,581	9,776	11,253	10,126	10,875	10,088	6,273	8,989
1967	6,617	7,224	8,166	12,009	12,613	7,814	8,708	9,608	14,792	12,562	9,685	5,565	9,613
1968	7,083	7,387	9,095	11,343	10,083	8,888	6,656	9,803	12,459	12,115	10,009	6,406	9,277
1969	8,094	8,591	10,209	14,048	12,003	9,544	12,924	15,164	12,295	10,713	10,210	7,647	10,954
1970	6,777	7,388	7,935	10,864	10,002	6,848	7,438	11,136	12,865	8,268	9,333	5,803	8,721
1971	6,789	7,527	7,769	13,032	14,701	10,534	11,439	15,570	15,186	12,406	8,325	5,454	10,728
1972	6,891	7,410	9,288	12,768	14,183	13,927	11,954	15,215	15,708	12,938	10,760	6,628	11,473
1973	7,110	7,233	9,597	11,951	5,790	6,098	5,369	7,440	9,078	8,711	10,919	7,229	8,044
1974	6,301	6,843	10,680	16,258	14,633	12,265	13,383	14,485	15,964	14,588	7,782	5,316	11,542
1975	6,474	7,263	8,079	11,178	9,415	10,558	9,027	12,308	13,526	13,268	10,785	7,154	9,919
1976	7,650	8,958	13,667	14,079	11,847	9,755	12,112	14,582	10,958	12,705	8,681	6,328	10,944
1977	7,309	7,270	7,581	8,821	5,302	5,197	4,941	7,213	7,258	7,161	12,319	10,482	7,571
1978	6,068	6,986	7,845	10,311	7,989	10,359	9,322	11,688	10,545	10,914	7,682	5,278	8,749
Average	7,080	7,520	8,964	10,664	8,981	8,372	9,372	11,756	12,114	10,536	9,260	6,222	9,241

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 Final Proposal

Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	-103	-103	-103	-103	-103	-103	-103	-103	-103	-103	0	0	-86
1930	7	7	7	7	7	7	7	7	7	7	0	0	6
1931	47	47	47	47	47	47	47	47	47	47	0	0	39
1932	439	439	439	439	439	439	439	439	439	439	0	0	366
1933	-68	-68	-68	-68	-68	-68	-68	-68	-68	-68	0	0	-57
1934	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1935	35	35	35	35	35	35	35	35	35	35	0	0	29
1936	-76	-76	-76	-76	-76	-76	-76	-76	-76	-76	0	0	-63
1937	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	0	0	-30
1938	203	203	203	203	203	203	203	203	203	203	0	0	169
1939	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	0	0	-30
1940	-51	-51	-51	-51	-51	-51	-51	-51	-51	-51	0	0	-42
1941	105	105	105	105	105	105	105	105	105	105	0	0	88
1942	236	236	236	236	236	236	236	236	236	236	0	0	197
1943	-82	-82	-82	-82	-82	-82	-82	-82	-82	-82	0	0	-68
1944	-86	-86	-86	-86	-86	-86	-86	-86	-86	-86	0	0	-71
1945	420	420	420	420	420	420	420	420	420	420	0	0	350
1946	210	210	210	210	210	210	210	210	210	210	0	0	175
1947	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1948	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1949	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1950	66	66	66	66	66	66	66	66	66	66	0	0	55
1951	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-87
1952	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1953	-59	-59	-59	-59	-59	-59	-59	-59	-59	-59	0	0	-49
1954	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1955	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1956	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1957	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1958	-53	-53	-53	-53	-53	-53	-53	-53	-53	-53	0	0	-44
1959	-74	-74	-74	-74	-74	-74	-74	-74	-74	-74	0	0	-62
1960	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1961	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1962	-68	-68	-68	-68	-68	-68	-68	-68	-68	-68	0	0	-57
1963	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	0	0	-77
1964	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1965	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1966	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1967	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	0	0	-76
1968	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1969	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1970	-78	-78	-78	-78	-78	-78	-78	-78	-78	-78	0	0	-65
1971	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	0	0	-12
1972	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1973	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1974	99	99	99	99	99	99	99	99	99	99	0	0	83
1975	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1976	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1977	-107	-107	-107	-107	-107	-107	-107	-107	-107	-107	0	0	-89
1978	601	601	601	601	601	601	601	601	601	601	0	0	501
Average	-19	-19	-19	-19	-19	-17	-19	-19	-19	-19	0	0	-16

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

2003 Safety Net CRAC Final Proposal
Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	6,356	7,113	7,315	8,193	5,220	6,088	5,448	6,156	8,765	8,710	8,919	5,606	6,991
1930	6,714	7,417	7,388	5,563	6,607	6,259	6,088	6,196	8,722	9,098	7,883	5,454	6,949
1931	6,686	7,415	7,481	5,665	5,396	6,006	6,050	6,904	8,091	7,932	8,356	5,622	6,800
1932	6,951	7,659	7,779	6,101	5,587	8,263	12,353	13,785	12,878	10,748	7,958	5,650	8,809
1933	6,637	6,826	8,498	11,484	10,144	6,116	7,887	11,172	15,273	13,339	10,025	5,907	9,442
1934	8,057	9,092	14,153	15,596	13,154	10,388	13,720	12,535	7,742	9,704	10,201	6,678	10,918
1935	6,414	6,882	8,004	10,872	11,111	5,535	8,345	10,320	11,005	10,308	7,235	5,383	8,451
1936	6,551	7,170	7,312	6,453	5,293	6,417	7,461	14,784	10,375	8,842	8,822	5,622	7,925
1937	6,657	7,273	7,327	5,859	5,556	6,144	5,844	6,799	8,020	8,205	8,502	5,505	6,808
1938	7,112	7,338	7,696	12,114	7,753	9,381	10,209	13,828	11,624	9,936	7,980	5,487	9,205
1939	6,751	7,215	7,331	8,743	5,696	6,908	7,695	11,886	8,694	9,033	7,971	6,025	7,829
1940	6,885	7,114	7,593	7,908	6,749	9,418	8,771	10,111	9,669	8,196	8,697	5,511	8,052
1941	6,761	7,117	8,271	8,816	5,511	6,420	5,639	7,724	9,264	7,518	7,809	5,444	7,191
1942	6,829	7,100	10,518	12,301	6,463	5,774	7,263	10,047	13,277	11,229	7,758	5,949	8,709
1943	6,575	6,950	7,865	11,006	9,773	9,974	13,321	13,454	12,579	11,056	9,970	5,895	9,868
1944	6,711	7,214	7,258	8,705	5,342	5,550	5,386	6,128	7,650	7,119	9,781	5,901	6,895
1945	6,842	7,671	7,761	6,145	6,401	6,436	6,132	10,461	12,184	9,393	7,483	5,599	7,709
1946	7,037	7,472	7,646	9,592	9,258	10,371	11,320	14,212	12,176	11,132	8,444	5,350	9,501
1947	6,535	7,124	11,291	12,265	10,944	10,407	9,239	12,736	11,447	10,327	9,831	6,191	9,861
1948	9,393	8,432	9,784	12,130	7,730	8,538	9,981	15,385	16,209	11,353	9,465	5,969	10,364
1949	6,914	7,014	8,152	9,413	7,526	11,494	10,596	13,935	11,232	8,006	10,489	7,138	9,326
1950	6,747	7,080	7,124	9,921	11,668	12,647	11,801	12,656	15,139	11,713	7,488	5,094	9,923
1951	7,874	9,105	12,539	14,094	13,810		11,888	13,955	10,406	11,420	9,879	6,404	11,008
1952	8,686	7,346	10,349	11,830	9,505	9,099	12,215	15,247	11,563	9,319	10,263	6,790	10,184
1953	6,569	7,308	7,317	8,490	11,022	6,752	6,938	12,147	14,735	11,694	9,171	5,810	8,996
1954	6,884	7,237	9,077	10,553	11,288	8,533	10,371	13,096	14,112	12,575	9,766	6,234	9,977
1955	7,658	7,919	9,236	7,935	5,741	5,605	6,743	9,397	15,744	13,969	11,139	9,655	9,228
1956	7,493	8,304	12,112	14,813	10,182	11,683	13,116	15,220	15,702	11,860	10,451	6,090	11,419
1957	7,049	6,974	9,303	10,160	6,592	8,051	11,448	14,750	15,326	9,586	10,186	6,159	9,632
1958	6,759	7,196	7,512	9,577	9,643	8,863	9,290	13,924	13,425	9,073	8,321	5,691	9,106
1959	6,588	7,828	10,336	14,161	11,752	8,893	9,744	11,706	13,995	12,381	8,522	5,818	10,144
1960	10,236	9,739	11,443	11,788	7,772	8,616	12,954	11,063	11,869	10,363	9,893	9,371	10,426
1961	6,753	7,418	8,105	10,223	10,474	9,724	10,274	11,995	15,270	9,765	9,167	5,902	9,589
1962	6,684	7,161	7,154	10,110	6,553	6,176	12,321	11,323	10,780	10,697	8,875	5,437	8,606
1963	7,327	7,996	10,280	10,498	8,588	7,661	7,366	12,334	11,478	10,300	9,451	5,748	9,086
1964	6,415	7,198	7,608	9,893	7,518	6,075	8,639	10,710	15,350	13,335	10,065	6,330	9,095
1965	7,822	7,357	12,437	15,506	13,306	11,075	11,101	13,655	12,560	9,726	10,190	7,124	10,988
1966	7,221	7,424	9,208	11,363	7,150	6,474	9,669	11,146	10,019	10,768	10,088	6,273	8,900
1967	6,526	7,133	8,076	11,918	12,522	7,723	8,617	9,517	14,702	12,471	9,685	5,565	9,538
1968	6,976	7,280	8,988	11,237	9,976	8,782	6,549	9,696	12,352	12,008	10,009	6,406	9,188
1969	7,987	8,484	10,102	13,942	11,896	9,437	12,817	15,057	12,188	10,606	10,210	7,647	10,865
1970	6,700	7,310	7,857	10,787	9,924	6,771	7,360	11,059	12,787	8,190	9,333	5,803	8,657
1971	6,774	7,512	7,755	13,018	14,686	10,519	11,424	15,555	15,171	12,391	8,325	5,454	10,715
1972	6,784	7,303	9,181	12,661	14,076	13,820	11,848	15,108	15,601	12,831	10,760	6,628	11,384
1973	7,003	7,127	9,490	11,844	5,683	5,991	5,262	7,333	8,971	8,604	10,919	7,229	7,955
1974	6,400	6,942	10,779	16,358	14,732	12,364	13,483	14,584	16,064	14,688	7,782	5,316	11,624
1975	6,367	7,157	7,972	11,071	9,308	10,451	8,920	12,201	13,419	13,161	10,785	7,154	9,830
1976	7,543	8,852	13,560	13,972	11,741	9,648	12,005	14,475	10,851	12,599	8,681	6,328	10,854
1977	7,202	7,163	7,474	8,714	5,195	5,090	4,834	7,107	7,151	7,054	12,319	10,482	7,482
1978	6,669	7,587	8,446	10,912	8,590	10,959	9,923	12,288	11,145	11,515	7,682	5,278	9,250
Average	7,061	7,501	8,945	10,645	8,962	8,402	9,353	11,737	12,095	10,517	9,260	6,222	9,225

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

2003 Safety Net CRAC Final Proposal

Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	6,473	7,229	7,432	8,310	5,333	6,200	5,547	6,236	8,873	8,829	8,949	5,623	7,086
1930	6,719	7,426	7,396	5,566	6,611	6,262	6,076	6,165	8,722	9,109	7,907	5,473	6,953
1931	6,651	7,384	7,450	5,629	5,359	5,969	5,999	6,833	8,054	7,903	8,384	5,640	6,771
1932	6,524	7,235	7,352	5,673	5,157	7,835	11,911	13,370	12,457	10,330	7,986	5,670	8,458
1933	6,719	6,908	8,580	11,574	10,233	6,196	7,956	11,178	15,487	13,436	10,057	5,927	9,521
1934	8,181	9,213	14,284	15,736	13,288	10,515	13,863	12,597	7,853	9,828	10,239	6,705	11,025
1935	6,391	6,862	7,983	10,858	11,098	5,514	8,300	10,244	10,973	10,295	7,261	5,407	8,432
1936	6,640	7,261	7,403	6,542	5,379	6,502	7,593	14,888	10,470	8,935	8,854	5,643	8,009
1937	6,706	7,325	7,379	5,907	5,603	6,190	5,874	6,806	8,060	8,258	8,529	5,521	6,846
1938	6,922	7,150	7,507	11,931	7,566	9,192	10,018	13,615	11,482	9,753	8,009	5,506	9,054
1939	6,801	7,266	7,382	8,799	5,745	6,956	7,724	11,878	8,736	9,086	7,995	6,045	7,868
1940	6,950	7,181	7,658	7,973	6,812	9,486	8,815	10,128	9,724	8,263	8,726	5,529	8,104
1941	6,670	7,027	8,181	8,723	5,416	6,325	5,533	7,589	9,163	7,428	7,835	5,462	7,113
1942	6,605	6,878	10,296	12,091	6,238	5,547	7,016	9,771	13,059	11,016	7,782	5,964	8,522
1943	6,670	7,045	7,960	11,108	9,868	10,071	13,426	13,529	12,805	11,188	10,004	5,913	9,966
1944	6,811	7,313	7,358	8,805	5,436	5,644	5,469	6,191	7,741	7,218	9,813	5,915	6,976
1945	6,433	7,265	7,355	5,734	5,990	6,025	5,706	10,119	11,816	8,993	7,506	5,617	7,380
1946	6,839	7,277	7,450	9,396	9,062	10,177	11,144	13,989	11,970	10,943	8,467	5,367	9,340
1947	6,656	7,245	11,411	12,400	11,069	10,531	9,326	12,880	11,547	10,455	9,864	6,209	9,966
1948	9,521	8,553	9,908	12,260	7,849	8,661	10,110	15,514	16,421	11,489	9,492	5,986	10,480
1949	7,036	7,135	8,272	9,538	7,644	11,620	10,749	14,063	11,339	8,129	10,526	7,158	9,434
1950	6,694	7,028	7,073	9,875	11,619	12,602	11,800	12,549	15,219	11,671	7,510	5,110	9,896
1951	7,997	9,224	12,665	14,231	13,944		12,053	14,051	10,508	11,551	9,912	6,421	11,117
1952	8,811	7,468	10,471	11,958	9,630	9,219	12,339	15,387	11,746	9,446	10,298	6,812	10,299
1953	6,641	7,381	7,391	8,561	11,101	6,825	6,998	12,133	14,929	11,777	9,198	5,825	9,063
1954	7,006	7,359	9,198	10,680	11,416	8,655	10,523	13,167	14,210	12,709	9,798	6,252	10,081
1955	7,782	8,040	9,359	8,057	5,858	5,721	6,848	9,427	15,960	14,108	11,179	9,691	9,336
1956	7,616	8,423	12,237	14,950	10,308	11,807	13,276	15,448	15,957	11,991	10,488	6,109	11,551
1957	7,171	7,095	9,424	10,286	6,710	8,172	11,611	14,842	15,574	9,711	10,220	6,177	9,749
1958	6,826	7,263	7,577	9,649	9,710	8,933	9,360	14,012	13,526	9,142	8,345	5,707	9,171
1959	6,676	7,916	10,425	14,262	11,850	8,980	9,802	11,699	14,165	12,478	8,546	5,835	10,220
1960	10,364	9,861	11,569	11,922	7,895	8,738	13,058	11,107	11,994	10,490	9,928	9,403	10,528
1961	6,875	7,540	8,225	10,350	10,600	9,849	10,386	12,035	15,375	9,891	9,196	5,923	9,687
1962	6,767	7,243	7,235	10,198	6,636	6,254	12,429	11,313	10,855	10,787	8,904	5,454	8,673
1963	7,434	8,103	10,388	10,612	8,697	7,763	7,454	12,431	11,690	10,414	9,483	5,766	9,186
1964	6,536	7,319	7,728	10,019	7,640	6,192	8,772	10,793	15,540	13,473	10,097	6,349	9,205
1965	7,946	7,479	12,558	15,644	13,437	11,199	11,268	13,764	12,759	9,852	10,224	7,145	11,106
1966	7,343	7,546	9,328	11,490	7,275	6,591	9,773	11,211	10,133	10,897	10,119	6,290	9,000
1967	6,631	7,238	8,180	12,031	12,637	7,829	8,734	9,565	14,936	12,586	9,717	5,582	9,639
1968	7,098	7,401	9,108	11,364	10,102	8,904	6,649	9,763	12,484	12,137	10,045	6,427	9,290
1969	8,111	8,606	10,226	14,075	12,027	9,558	12,990	15,173	12,295	10,734	10,246	7,671	10,976
1970	6,793	7,402	7,948	10,880	10,020	6,862	7,474	11,136	12,999	8,285	9,362	5,820	8,748
1971	6,802	7,540	7,783	13,055	14,727	10,550	11,497	15,655	15,246	12,431	8,348	5,466	10,758
1972	6,905	7,424	9,302	12,790	14,208	13,950	11,951	15,257	15,826	12,969	10,798	6,647	11,502
1973	7,125	7,247	9,611	11,972	5,801	6,108	5,369	7,408	9,085	8,727	10,958	7,249	8,055
1974	6,312	6,856	10,693	16,292	14,660	12,286	13,469	14,491	15,995	14,620	7,807	5,333	11,568
1975	6,487	7,277	8,092	11,198	9,434	10,573	8,990	12,300	13,592	13,348	10,822	7,176	9,941
1976	7,666	8,972	13,688	14,108	11,870	9,772	12,181	14,606	11,042	12,732	8,708	6,346	10,974
1977	7,325	7,284	7,595	8,837	5,311	5,206	4,940	7,189	7,265	7,175	12,363	10,520	7,584
1978	6,080	6,999	7,855	10,327	8,001	10,376	9,308	11,655	10,598	10,936	7,708	5,296	8,762
Average	7,095	7,534	8,979	10,685	8,998	8,435	9,389	11,743	12,165	10,559	9,290	6,242	9,259

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

2003 Safety Net CRAC Final Proposal

Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Avg.
1929	6,496	7,254	7,456	8,334	5,349	6,211	5,559	6,242	8,886	8,825	8,979	5,648	7,103
1930	6,739	7,456	7,424	5,585	6,629	6,275	6,084	6,172	8,746	9,116	7,929	5,497	6,971
1931	6,669	7,413	7,481	5,647	5,377	5,982	6,011	6,845	8,087	7,917	8,410	5,663	6,792
1932	6,545	7,263	7,377	5,690	5,175	7,843	11,944	13,396	12,490	10,335	8,014	5,694	8,480
1933	6,743	6,935	8,606	11,615	10,275	6,214	7,983	11,209	15,516	13,458	10,084	5,952	9,549
1934	8,214	9,239	14,323	15,786	13,337	10,543	13,894	12,642	7,878	9,841	10,271	6,738	11,059
1935	6,412	6,887	8,008	10,897	11,143	5,537	8,318	10,260	10,995	10,308	7,289	5,435	8,457
1936	6,664	7,291	7,434	6,566	5,396	6,513	7,604	14,916	10,506	8,943	8,885	5,669	8,032
1937	6,728	7,355	7,408	5,927	5,623	6,205	5,887	6,807	8,074	8,263	8,553	5,545	6,865
1938	6,944	7,181	7,532	11,969	7,596	9,208	10,038	13,648	11,501	9,757	8,036	5,531	9,079
1939	6,824	7,292	7,404	8,833	5,765	6,966	7,734	11,897	8,760	9,092	8,014	6,072	7,888
1940	6,974	7,212	7,685	7,996	6,827	9,503	8,832	10,137	9,747	8,269	8,754	5,554	8,124
1941	6,692	7,056	8,209	8,742	5,432	6,336	5,557	7,604	9,180	7,423	7,861	5,487	7,131
1942	6,624	6,902	10,315	12,140	6,256	5,557	7,025	9,783	13,085	11,028	7,803	5,988	8,542
1943	6,693	7,070	7,979	11,137	9,882	10,082	13,442	13,563	12,822	11,187	10,032	5,938	9,986
1944	6,833	7,337	7,377	8,829	5,450	5,655	5,481	6,204	7,755	7,210	9,836	5,938	6,992
1945	6,452	7,291	7,380	5,749	6,002	6,035	5,715	10,126	11,833	8,999	7,527	5,641	7,396
1946	6,858	7,303	7,472	9,414	9,083	10,194	11,166	14,027	12,007	10,950	8,486	5,390	9,363
1947	6,675	7,268	11,420	12,446	11,091	10,553	9,353	12,903	11,584	10,462	9,893	6,236	9,990
1948	9,555	8,576	9,937	12,293	7,865	8,683	10,134	15,542	16,455	11,508	9,514	6,012	10,506
1949	7,060	7,160	8,293	9,570	7,658	11,635	10,771	14,082	11,369	8,128	10,555	7,187	9,456
1950	6,714	7,054	7,097	9,910	11,645	12,626	11,820	12,580	15,250	11,675	7,530	5,133	9,919
1951	8,023	9,242	12,693	14,278	13,980		12,077	14,087	10,531	11,562	9,936	6,447	11,144
1952	8,841	7,495	10,492	11,995	9,654	9,232	12,351	15,415	11,769	9,449	10,325	6,841	10,322
1953	6,662	7,409	7,417	8,571	11,130	6,844	7,020	12,162	14,950	11,781	9,219	5,849	9,085
1954	7,031	7,387	9,221	10,714	11,449	8,676	10,542	13,203	14,256	12,726	9,823	6,280	10,109
1955	7,811	8,068	9,390	8,081	5,875	5,736	6,867	9,446	16,002	14,135	11,211	9,733	9,363
1956	7,643	8,445	12,261	14,995	10,336	11,819	13,302	15,477	15,993	12,003	10,518	6,136	11,577
1957	7,195	7,120	9,444	10,319	6,722	8,185	11,632	14,871	15,610	9,710	10,246	6,204	9,771
1958	6,847	7,290	7,597	9,681	9,728	8,959	9,378	14,030	13,566	9,138	8,363	5,732	9,192
1959	6,700	7,939	10,446	14,303	11,892	8,996	9,833	11,736	14,202	12,489	8,567	5,860	10,247
1960	10,396	9,884	11,602	11,973	7,922	8,752	13,097	11,139	12,023	10,499	9,956	9,444	10,557
1961	6,901	7,567	8,249	10,388	10,631	9,874	10,417	12,078	15,426	9,901	9,221	5,951	9,717
1962	6,791	7,268	7,259	10,232	6,658	6,265	12,456	11,344	10,880	10,794	8,931	5,477	8,696
1963	7,457	8,127	10,412	10,651	8,717	7,775	7,476	12,443	11,709	10,422	9,509	5,790	9,207
1964	6,558	7,344	7,750	10,054	7,667	6,204	8,785	10,813	15,566	13,495	10,122	6,377	9,228
1965	7,975	7,508	12,567	15,684	13,465	11,214	11,287	13,788	12,770	9,845	10,250	7,176	11,127
1966	7,366	7,573	9,346	11,526	7,307	6,602	9,799	11,235	10,160	10,912	10,141	6,318	9,024
1967	6,654	7,264	8,205	12,070	12,677	7,852	8,766	9,585	14,968	12,595	9,746	5,607	9,666
1968	7,121	7,427	9,128	11,398	10,130	8,925	6,668	9,773	12,515	12,146	10,074	6,455	9,313
1969	8,138	8,628	10,252	14,112	12,063	9,568	13,018	15,206	12,337	10,739	10,274	7,706	11,003
1970	6,817	7,429	7,969	10,899	10,042	6,879	7,505	11,154	13,010	8,282	9,387	5,846	8,768
1971	6,821	7,563	7,799	13,080	14,758	10,561	11,517	15,682	15,270	12,440	8,366	5,488	10,779
1972	6,927	7,448	9,320	12,819	14,241	13,972	11,985	15,286	15,854	12,993	10,827	6,675	11,529
1973	7,149	7,271	9,630	12,003	5,817	6,120	5,390	7,417	9,110	8,731	10,990	7,278	8,075
1974	6,329	6,876	10,706	16,334	14,698	12,305	13,492	14,516	16,023	14,641	7,832	5,356	11,592
1975	6,508	7,301	8,111	11,231	9,463	10,587	9,015	12,324	13,605	13,356	10,850	7,206	9,963
1976	7,689	8,992	13,711	14,148	11,905	9,787	12,204	14,631	11,059	12,749	8,728	6,374	10,998
1977	7,351	7,309	7,617	8,862	5,326	5,220	4,958	7,210	7,288	7,180	12,396	10,566	7,607
1978	6,098	7,023	7,866	10,349	8,013	10,397	9,339	11,683	10,614	10,938	7,735	5,320	8,781
Average	7,118	7,560	9,002	10,717	9,022	8,451	9,411	11,766	12,192	10,567	9,316	6,269	9,282

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 Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	98	119	134	135	126	118	105	104	102	108	106	103	103	96	113
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	31	31	31	31	31	31	31	31	31	32.25
Total Firm Non-Utility Obligations	229	177	183	184	173	186	350	350	404	427	466	412	412	320	293
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2,346	2,662	3,020	3,110	2,955	2,603	2,495	2,488	2,398	2,455	2,501	2,495	2,494	2,307	2,612
GPU 2002 PSC Sale	1,856	2,212	2,483	2,513	2,477	2,291	2,316	2,309	2,078	1,951	1,730	1,785	1,785	1,857	2,129
NGP Slice Sale	609	667	673	552	527	573	535	517	543	638	714	839	644	497	605
GPU Slice Sale	1,015	1,111	1,121	919	877	954	890	861	904	1,062	1,190	1,397	1,072	828	1,007
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	855	1,191	1,190	1,389	1,147	1,210	1,234	1,228	1,179	1,097
Intra-Regional Transfers (Out)	2,063	2,457	2,481	2,097	1,730	2,157	1,753	1,980	1,839	1,378	1,688	1,740	1,735	1,065	1,880
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	9,475	10,704	11,380	10,576	9,946	9,950	9,562	9,728	9,533	9,013	9,415	9,872	9,341	8,115	9,780
Total Firm Obligations	9,705	10,881	11,563	10,760	10,119	10,136	9,912	10,078	9,938	9,440	9,881	10,285	9,753	8,435	10,073
Hydro Resources															
Regulated Hydro	6,276	6,978	7,100	5,691	5,372	5,869	5,510	5,213	6,052	7,251	7,742	9,230	6,871	5,125	6,406
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	6,761	7,382	7,436	5,966	5,668	6,243	6,085	5,870	6,904	8,138	8,335	9,809	7,448	5,636	6,923
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	309	423	482	396	352	319	300	262	125	147	228	213	213	247	293
Intra-Regional Transfers (In)	2,642	2,619	2,650	2,574	2,615	2,484	1,630	1,229	1,069	1,264	1,780	1,767	1,767	1,841	2,061
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	76	101	105	107	98	92	114	114	107	95	76	83	82	59	93
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	4,097	4,214	4,311	4,151	4,138	3,968	3,073	2,635	1,619	1,767	3,111	3,091	3,089	3,173	3,374
Total Resources	10,857	11,596	11,746	10,117	9,806	10,210	9,158	8,505	8,523	9,905	11,446	12,900	10,538	8,809	10,297
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-306	-327	-331	-285	-277	-288	-258	-240	-240	-279	-323	-364	-297	-248	-290
Total Res., Maint. & Losses	-306	-327	-331	-285	-277	-288	-258	-240	-240	-279	-323	-364	-297	-248	-290
Total Net Resources	10,551	11,269	11,415	9,832	9,530	9,922	8,900	8,265	8,283	9,626	11,123	12,536	10,240	8,561	10,007
Total Firm Surplus/Deficit	846	388	-148	-928	-590	-214	-1,012	-1,813	-1,655	186	1,242	2,251	487	126	-66

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	103	124	139	141	130	123	110	109	107	113	111	108	108	101	117
USBR 2002 PSC Sale	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
DSI 2002 PSC Sale	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
Total Firm Non-Utility Obligations	231	180	185	187	174	191	355	355	409	432	471	417	417	325	296
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2,477	2,809	3,174	3,265	3,094	2,737	2,645	2,639	2,551	2,608	2,658	2,652	2,652	2,463	2,761
GPU 2002 PSC Sale	1,950	2,315	2,616	2,631	2,557	2,396	2,138	2,132	2,036	1,781	1,792	1,851	1,851	1,919	2,165
NGP Slice Sale	603	660	666	545	519	567	540	522	607	706	718	840	645	498	614
GPU Slice Sale	1,004	1,099	1,109	908	865	944	899	870	1,011	1,176	1,196	1,399	1,074	829	1,022
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	1,049	1,035	1,068	988	983	946	971	971	990	1,067	1,082	1,056	1,056	1,048	1,024
Intra-Regional Transfers (Out)	600	944	945	750	681	516	433	433	221	336	330	250	251	290	525
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	8,065	9,246	9,961	9,468	9,082	8,488	8,007	7,949	7,797	8,056	8,158	8,431	7,911	7,428	8,491
Total Firm Obligations	8,296	9,425	10,146	9,655	9,256	8,679	8,362	8,303	8,205	8,488	8,629	8,848	8,329	7,752	8,788
Hydro Resources															
Regulated Hydro	6,307	7,004	7,127	5,720	5,396	5,906	5,551	5,261	6,124	7,311	7,791	9,248	6,885	5,135	6,441
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	6,835	7,451	7,505	6,037	5,735	6,322	6,126	5,917	6,977	8,199	8,384	9,827	7,462	5,647	6,980
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	294	365	422	371	327	294	275	237	100	122	203	182	182	215	263
Intra-Regional Transfers (In)	1,762	1,823	1,712	1,664	1,639	1,619	1,364	963	856	865	1,547	1,572	1,572	1,640	1,488
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	77	102	104	107	97	91	113	113	107	94	75	83	81	58	92
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	3,161	3,318	3,269	3,173	3,094	3,035	2,782	2,344	2,089	2,109	2,852	2,864	2,863	2,940	2,872
Total Resources	9,995	10,769	10,775	9,211	8,829	9,358	8,908	8,261	9,066	10,307	11,236	12,691	10,325	8,587	9,852
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-282	-304	-304	-260	-249	-264	-251	-233	-256	-291	-317	-358	-291	-242	-278
Total Res., Maint. & Losses	-282	-304	-304	-260	-249	-264	-251	-233	-256	-291	-317	-358	-291	-242	-278
Total Net Resources	9,714	10,465	10,471	8,951	8,580	9,094	8,657	8,028	8,811	10,017	10,919	12,333	10,034	8,345	9,574
Total Firm Surplus/Deficit	1,418	1,040	325	-704	-676	415	295	-275	605	1,529	2,290	3,484	1,705	593	787

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	103	124	139	141	132	124	110	110	107	113	112	109	109	101	118
USBR 2002 PSC Sale	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
DSI 2002 PSC Sale	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
Total Firm Non-Utility Obligations	281	230	236	237	226	242	406	405	459	482	521	468	468	375	347
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2,521	2,857	3,228	3,315	3,178	2,779	2,686	2,680	2,589	2,648	2,698	2,693	2,693	2,501	2,807
GPU 2002 PSC Sale	1,953	2,335	2,629	2,639	2,605	2,411	2,151	2,145	2,048	1,793	1,799	1,857	1,857	1,920	2,178
NGP Slice Sale	608	666	671	550	525	572	545	525	558	639	723	845	649	503	608
GPU Slice Sale	1,013	1,108	1,118	916	874	952	907	874	929	1,064	1,205	1,407	1,081	837	1,013
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	974	961	995	991	987	950	974	974	992	1,070	1,064	1,036	1,036	1,027	1,002
Intra-Regional Transfers (Out)	344	675	688	685	629	462	380	380	170	283	330	250	251	290	432
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	7,795	8,984	9,711	9,480	9,179	8,507	8,024	7,959	7,668	7,877	8,201	8,470	7,949	7,460	8,422
Total Firm Obligations	8,077	9,214	9,947	9,717	9,405	8,748	8,430	8,364	8,128	8,359	8,722	8,938	8,417	7,835	8,769
Hydro Resources															
Regulated Hydro	6,320	7,020	7,142	5,731	5,407	5,916	5,561	5,238	6,095	7,314	7,806	9,278	6,907	5,151	6,449
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	6,848	7,467	7,521	6,049	5,745	6,332	6,135	5,893	6,946	8,200	8,398	9,855	7,483	5,662	6,988
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	269	337	394	368	324	294	275	237	100	122	203	182	182	215	255
Intra-Regional Transfers (In)	1,592	1,640	1,540	1,599	1,587	1,565	1,311	911	805	812	1,547	1,572	1,572	1,640	1,418
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	126	151	154	157	148	141	163	163	156	144	125	109	109	102	140
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	3,015	3,156	3,120	3,156	3,090	3,031	2,779	2,341	1,476	1,239	2,902	2,889	2,890	2,984	2,718
Total Resources	9,863	10,623	10,641	9,205	8,835	9,364	8,914	8,234	8,422	9,439	11,300	12,744	10,373	8,646	9,706
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-278	-300	-300	-260	-249	-264	-251	-232	-237	-266	-319	-359	-293	-244	-274
Total Res., Maint. & Losses	-278	-300	-300	-260	-249	-264	-251	-232	-237	-266	-319	-359	-293	-244	-274
Total Net Resources	9,584	10,323	10,341	8,945	8,586	9,100	8,663	8,002	8,184	9,173	10,981	12,385	10,081	8,402	9,432
Total Firm Surplus/Deficit	1,508	1,110	394	-771	-819	351	233	-362	56	814	2,259	3,447	1,664	567	663

Loads and Resources - Federal System
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1937 Water year
2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	103	125	140	142	133	124	111	110	108	114	112	109	109	102	118
USBR 2002 PSC Sale	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
DSI 2002 PSC Sale	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138
Total Firm Non-Utility Obligations	339	288	293	295	284	299	463	462	517	539	579	525	525	432	404
Transfers Out															
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2,560	2,902	3,277	3,374	3,234	2,829	2,735	2,727	2,636	2,695	2,746	2,740	2,740	2,547	2,856
GPU 2002 PSC Sale	1,959	2,340	2,633	2,642	2,609	2,414	2,098	2,092	2,007	1,745	1,753	1,819	1,819	1,881	2,158
NGP Slice Sale	609	666	672	550	524	571	542	522	605	709	723	847	651	505	618
GPU Slice Sale	1,015	1,109	1,119	915	873	951	903	869	1,008	1,182	1,204	1,411	1,085	841	1,029
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	935	939	954	952	948	940	964	963	983	991	945	934	934	928	951
Intra-Regional Transfers (Out)	344	675	688	685	629	462	380	380	170	283	330	250	251	290	432
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	7,804	9,012	9,724	9,501	9,200	8,550	8,005	7,937	7,791	7,986	8,082	8,384	7,862	7,373	8,426
Total Firm Obligations	8,143	9,299	10,017	9,795	9,483	8,849	8,468	8,399	8,308	8,525	8,661	8,909	8,388	7,806	8,831
Hydro Resources															
Regulated Hydro	6,342	7,050	7,171	5,752	5,427	5,931	5,577	5,248	6,096	7,328	7,811	9,303	6,930	5,175	6,468
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	6,868	7,495	7,548	6,068	5,763	6,346	6,150	5,902	6,946	8,214	8,402	9,880	7,505	5,684	7,004
Other Resources															
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	249	317	374	348	304	274	275	237	100	122	203	182	182	215	245
Intra-Regional Transfers (In)	1,592	1,640	1,540	1,198	1,189	1,165	911	909	806	812	1,146	1,174	1,174	1,240	1,201
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	141	154	151	156	149	143	148	148	145	148	134	133	133	121	144
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	3,009	3,139	3,097	2,734	2,673	2,613	2,364	2,323	2,078	2,110	2,510	2,516	2,514	2,603	2,619
Total Resources	9,877	10,635	10,645	8,802	8,437	8,959	8,513	8,226	9,024	10,323	10,912	12,396	10,019	8,288	9,623
Reserves & Maintenance															
Hydro Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-279	-300	-300	-248	-238	-253	-240	-232	-254	-291	-308	-350	-283	-234	-271
Total Res., Maint. & Losses	-279	-300	-300	-248	-238	-253	-240	-232	-254	-291	-308	-350	-283	-234	-271
Total Net Resources	9,599	10,335	10,345	8,554	8,199	8,706	8,273	7,994	8,770	10,032	10,604	12,047	9,737	8,054	9,352
Total Firm Surplus/Deficit	1,456	1,036	328	-1,242	-1,285	-143	-195	-405	462	1,507	1,943	3,137	1,349	248	521

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

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	20	20	20	20	5
BPA to AZUS CapS	0	0	0	0	0	0	0	0	0	0	0	3	3	3	0
BPA to AZUS PwrS	0	0	0	0	0	0	0	0	0	4	4	1	1	1	1
BPA to BANN CapS	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
BPA to BANN PwrS	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
BPA to BART PwrS	35	35	35	40	40	40	40	40	40	40	40	40	40	40	39
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	327	370	370	520	250	298	342	337	297	381
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	13	14	14	20	14	15	16	16	15	16
Federal Entities	1,069	1,079	1,086	868	864	855	1,166	1,165	1,339	1,147	1,210	1,234	1,228	1,179	1,091

Table A-2: Exports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	20	20	20	20	5
BPA to BART PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
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	250	250	250	175	175	175	175	175	175	175	175	175	175	175	194
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	12	11	11	9	9	8	8	8	9	11	12	11	11	11	10
Federal Entities	1,049	1,035	1,068	988	983	946	971	971	990	1,067	1,082	1,056	1,056	1,048	1,024

Table A-2: Exports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BART PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
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	9	9	9	9	8	8	8	9	11	11	10	10	10	10
Federal Entities	974	961	995	991	987	950	974	974	992	1,070	1,064	1,036	1,036	1,027	1,002

Table A-2: Exports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA to BART PwrS	40	40	40	40	40	40	40	40	40	40	1	0	0	0	30
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	935	939	954	952	948	940	964	963	983	991	945	934	934	928	951

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Albeni Falls	36	18	18	16	14	17	18	18	28	45	38	23	18	27	25
Bonneville	462	518	543	454	446	462	288	132	132	181	130	170	136	396	341
Chief Joseph	1,036	1,262	1,242	944	889	884	889	896	845	1,116	1,299	1,728	1,296	803	1,060
Dworshak	51	51	51	51	50	50	51	53	56	283	440	438	203	51	126
Grand Coulee	1,937	2,335	2,230	1,719	1,641	1,565	1,488	1,462	1,444	2,057	2,439	3,211	2,360	1,464	1,924
Hungry Horse	85	89	90	92	92	88	67	28	29	30	118	91	80	76	77
Ice Harbor	139	97	103	125	107	183	129	135	231	172	123	94	65	127	135
John Day	793	913	900	733	709	813	774	745	789	901	842	911	688	660	801
Libby	153	88	298	81	79	78	77	77	172	292	142	519	353	113	167
Little Goose	139	98	102	127	93	175	248	300	507	380	284	235	174	138	210
Lower Granite	137	98	103	128	94	178	242	308	511	389	291	240	178	145	213
Lower Monumental	141	97	103	126	107	186	264	316	514	393	292	237	175	132	216
Mc Nary	545	599	605	505	475	538	405	265	292	414	744	722	686	454	518
The Dalles	621	714	713	591	577	653	571	480	502	598	561	609	457	539	594
Federal System	6,276	6,978	7,100	5,691	5,372	5,869	5,510	5,213	6,052	7,251	7,742	9,230	6,871	5,125	6,406

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Albeni Falls	37	18	18	16	14	17	18	18	28	45	38	23	18	27	25
Bonneville	462	518	543	455	446	462	289	133	132	181	130	170	136	396	341
Chief Joseph	1,037	1,264	1,243	945	890	884	890	896	846	1,117	1,300	1,729	1,297	803	1,061
Dworschak	51	51	51	51	50	50	51	53	56	284	440	438	203	51	126
Grand Coulee	1,942	2,341	2,236	1,724	1,646	1,569	1,492	1,466	1,448	2,063	2,445	3,226	2,372	1,472	1,930
Hungry Horse	85	89	90	92	92	88	67	28	29	30	118	91	80	76	77
Ice Harbor	145	101	108	130	111	190	131	137	233	175	126	94	65	127	138
John Day	794	914	900	734	710	814	775	746	790	902	842	912	688	661	802
Libby	153	88	298	81	79	78	77	77	172	292	143	519	354	113	167
Little Goose	145	102	106	132	97	183	258	312	528	396	295	235	174	138	218
Lower Granite	143	102	108	134	98	185	252	320	532	405	303	241	178	145	221
Lower Monumental	147	101	108	131	111	194	275	329	535	409	304	237	176	132	223
Mc Nary	545	600	606	505	475	539	405	266	292	415	744	723	687	455	518
The Dalles	622	714	713	592	577	653	571	480	503	598	561	610	457	539	594
Federal System	6,307	7,004	7,127	5,720	5,396	5,906	5,551	5,261	6,124	7,311	7,791	9,248	6,885	5,135	6,441

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Albeni Falls	37	18	18	16	14	17	18	18	28	45	38	23	18	27	25
Bonneville	463	519	543	455	446	462	289	133	132	181	130	171	137	398	341
Chief Joseph	1,038	1,264	1,244	945	891	885	890	897	846	1,118	1,300	1,736	1,302	806	1,062
Dworschak	51	51	51	51	50	50	51	53	56	284	440	440	204	52	126
Grand Coulee	1,952	2,354	2,248	1,733	1,654	1,576	1,499	1,473	1,456	2,074	2,457	3,246	2,387	1,482	1,941
Hungry Horse	85	90	90	92	92	88	67	28	29	30	118	92	80	76	77
Ice Harbor	145	101	108	130	111	190	131	137	233	175	126	93	64	125	138
John Day	794	915	901	734	710	814	775	714	750	891	843	915	691	664	797
Libby	153	88	298	81	79	78	77	77	172	292	143	520	355	113	168
Little Goose	145	102	106	132	97	183	259	313	528	396	295	232	172	136	217
Lower Granite	143	103	108	134	98	185	252	321	533	406	303	238	176	143	221
Lower Monumental	147	101	108	131	112	194	275	329	535	409	305	234	173	130	223
Mc Nary	546	600	606	506	475	539	406	266	292	415	745	726	689	457	519
The Dalles	622	715	714	592	578	654	572	481	503	599	562	612	459	542	595
Federal System	6,320	7,020	7,142	5,731	5,407	5,916	5,561	5,238	6,095	7,314	7,806	9,278	6,907	5,151	6,449

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Albeni Falls	37	18	18	16	14	17	18	18	28	45	38	23	18	27	25
Bonneville	465	521	546	457	448	463	291	133	133	182	131	171	137	399	343
Chief Joseph	1,042	1,270	1,249	949	894	889	894	901	850	1,122	1,306	1,746	1,310	811	1,067
Dworschak	52	51	51	51	50	51	51	53	56	285	442	441	204	52	126
Grand Coulee	1,965	2,370	2,264	1,745	1,665	1,586	1,509	1,483	1,466	2,089	2,474	3,261	2,398	1,490	1,953
Hungry Horse	85	90	90	92	92	88	67	28	29	30	119	92	80	76	77
Ice Harbor	143	100	106	128	110	188	130	136	232	174	125	93	64	125	137
John Day	798	919	905	738	713	818	779	717	753	894	846	916	692	665	800
Libby	154	90	298	81	79	78	77	77	172	293	145	521	355	113	168
Little Goose	143	101	105	130	96	180	255	309	522	391	286	228	170	137	214
Lower Granite	141	101	106	132	97	183	249	317	526	401	293	233	174	143	218
Lower Monumental	145	100	106	130	110	192	272	325	529	404	295	230	171	131	220
Mc Nary	548	603	609	508	477	541	408	268	294	417	748	735	697	462	522
The Dalles	625	718	717	595	580	656	575	483	505	601	564	613	460	543	597
Federal System	6,342	7,050	7,171	5,752	5,427	5,931	5,577	5,248	6,096	7,328	7,811	9,303	6,930	5,175	6,468

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	23	18	11	16
Big Cliff	13	15	7	4	7	7	10	17	21	21	8	8	7	9	11
Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Black Canyon	9	6	7	9	5	8	10	10	10	8	8	10	10	8	8
Bonneville Fishway	25	12	12	12	25	25	25	25	25	25	25	25	25	25	21
Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
Cougar	25	24	6	4	6	7	8	29	29	29	11	17	24	12	16
Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	10	10	8	26
Detroit	44	46	20	11	18	20	33	66	106	91	30	30	24	32	41
Dexter	12	16	4	4	5	5	10	16	17	17	6	6	6	6	9
Foster	8	6	14	4	9	21	22	23	23	23	6	4	10	4	12
Green Peter	26	16	34	8	1	33	89	45	59	49	10	22	32	4	28
Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Hills Creek	23	27	6	6	4	5	19	31	35	35	14	7	7	25	18
Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	6	6	6	6
Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	6	6	7	6
Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	7	6
Lookout Point	45	47	9	9	12	15	38	64	80	75	24	25	22	24	35
Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	34	23	30
Minidoka	12	3	9	3	2	2	14	14	31	31	31	31	31	29	16
Packwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 Final Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	23	18	11	16
Big Cliff	13	15	7	4	7	7	10	17	21	21	8	8	7	9	11
Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Black Canyon	9	6	7	9	5	8	10	10	10	8	8	10	10	8	8
Bonneville Fishway	25	12	12	12	25	25	25	25	25	25	25	25	25	25	21
Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
Cougar	25	24	6	4	6	7	8	29	29	29	11	17	24	12	16
Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	10	10	8	26
Detroit	44	46	20	11	18	20	33	66	106	91	30	30	24	32	41
Dexter	12	16	4	4	5	5	10	16	17	17	6	6	6	6	9
Foster	8	6	14	4	9	21	22	23	23	23	6	4	10	4	12
Green Peter	26	16	34	8	1	33	89	45	59	49	10	22	32	4	28
Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Hills Creek	23	27	6	6	4	5	19	31	35	35	14	7	7	25	18
Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	6	6	6	6
Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	6	6	7	6
Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	7	6
Lookout Point	45	47	9	9	12	15	38	64	80	75	24	25	22	24	35
Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	34	23	30
Minidoka	12	3	9	3	2	2	14	14	31	31	31	31	31	29	16
Packwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 Final Proposal**

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	23	18	11	16
Big Cliff	13	15	7	4	7	7	10	17	21	21	8	8	7	9	11
Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Black Canyon	9	6	7	9	5	8	10	10	10	8	8	10	10	8	8
Bonneville Fishway	25	12	12	12	25	25	25	25	25	25	25	25	25	25	21
Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
Cougar	25	24	6	4	6	7	8	29	29	29	11	17	24	12	16
Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	10	10	8	26
Detroit	44	46	20	11	18	20	33	66	106	91	30	30	24	32	41
Dexter	12	16	4	4	5	5	10	16	17	17	6	6	6	6	9
Foster	8	6	14	4	9	21	22	23	23	23	6	4	10	4	12
Green Peter	26	16	34	8	1	33	89	45	59	49	10	22	32	4	28
Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Hills Creek	23	27	6	6	4	5	19	31	35	35	14	7	7	25	18
Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	6	6	6	6
Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	6	6	7	6
Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	7	6
Lookout Point	45	47	9	9	12	15	38	64	80	75	24	25	22	24	35
Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	34	23	30
Minidoka	12	3	9	3	2	2	14	14	31	31	31	31	31	29	16
Packwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 Final Proposal**

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

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
PPLE To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
ANHM To BPA PwrX	20	20	20	20	20	0	0	0	0	0	0	0	0	0	10
BURB To BPA XchgNrg	3	4	5	5	5	5	3	3	3	3	3	3	3	3	4
BURB To BPA PkRepl	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
CLTN To BPA PwrX	0	3	3	3	3	0	0	0	0	0	0	0	0	0	1
GLEN To BPA XchgNrg	3	4	6	6	6	6	3	3	3	3	3	3	3	3	4
GLEN To BPA PkRepl	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
Other ECD 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	0	2
PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
RVSD To BPA XchgNrg	6	6	6	6	6	6	6	0	0	0	0	0	0	0	3
RVSD To BPA PkRepl	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
RVSD To BPA PkRepl	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
RVSD To BPA XchgNrg	0	16	16	16	16	16	16	0	0	0	0	0	0	0	7
RVSD To BPA S/Pwr/X	0	9	9	9	9	9	9	0	0	0	0	0	0	0	4
RVSD To BPA PkRepl	11	3	3	3	3	3	3	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

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
PPLE To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
ANHM To BPA PwrX	20	20	20	20	20	20	0	0	0	0	0	0	0	0	10
BURB To BPA XchgNrg	3	4	5	5	5	5	3	3	3	3	3	3	3	3	4
BURB To BPA PkRepl	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
CLTN To BPA PwrX	0	3	3	3	3	0	0	0	0	0	0	0	0	0	1
GLEN To BPA XchgNrg	3	4	6	6	6	6	3	3	3	3	3	3	3	3	4
GLEN To BPA PkRepl	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
Other ECD Entities To BPA	25	25	25	0	0	0	0	0	0	0	0	0	0	0	6
PASA To BPA XchgNrg	2	3	3	3	3	3	3	2	2	2	2	2	2	2	2
PASA To BPA PkRepl	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
PASA To BPA XchgNrg	3	3	3	3	3	2	0	0	0	0	0	0	0	0	2
PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
RVSD To BPA XchgNrg	6	6	6	6	6	6	6	0	0	0	0	0	0	0	3
RVSD To BPA PkRepl	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
RVSD To BPA PkRepl	7	0	0	0	0	0	0	0	0	7	7	7	7	7	3
RVSD To BPA XchgNrg	0	16	16	16	16	16	16	0	0	0	0	0	0	0	7
RVSD To BPA S/Pwr/X	0	9	9	9	9	9	9	0	0	0	0	0	0	0	4
RVSD To BPA PkRepl	11	3	3	3	3	3	3	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

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
PPLE To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
ANHM To BPA PwrX	20	20	20	20	20	20	0	0	0	0	0	0	0	0	10
BURB To BPA XchgNrg	3	4	5	5	5	5	3	3	3	3	3	3	3	3	4
BURB To BPA PkRepl	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
GLEN To BPA XchgNrg	3	4	6	6	6	6	3	3	3	3	3	3	3	3	4
GLEN To BPA PkRepl	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
Other ECD Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA XchgNrg	2	3	3	3	3	3	3	2	2	2	2	2	2	2	2
PASA To BPA PkRepl	3	2	2	2	2	2	2	2	3	4	4	4	4	4	3
PASA To BPA XchgNrg	3	3	3	3	3	2	0	0	0	0	0	0	0	0	2
PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	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

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
PPLE To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
BURB To BPA XchgNrg	3	4	5	5	5	5	3	3	3	3	3	3	3	3	4
BURB To BPA PkRepl	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
GLEN To BPA XchgNrg	3	4	6	6	6	6	3	3	3	3	3	3	3	3	4
GLEN To BPA PkRepl	4	3	3	3	3	3	3	3	4	6	6	6	6	6	4
Other ECD 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**

2003 Safety Net CRAC Final Proposal

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

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2003 - 2004 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-10: Large Thermal
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final 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**

2003 Safety Net CRAC Final Proposal

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

**Table A-10: Large Thermal
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-10: Large Thermal
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
<i>-Rock Island P.H. #1 CER for CSPE-</i>															
CHPD to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
PSE to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Rock Island P.H. #1: Reg. Totals	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.3							
<i>-Rock Island P.H. #2 CER for CSPE-</i>															
CHPD to BPA	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
PSE to BPA	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Rock Island P.H. #2: Reg. Totals	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.2							
<i>-Rocky Reach CER for CSPE-</i>															
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	4.0							
<i>-Wells CER for CSPE-</i>															
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	2.5							
<i>-Total CER For CSPE-</i>															
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	46.5							

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
<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														

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
<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														

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
<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														

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

**Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

**Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final Proposal																
Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg	
-BPA Canada-																
BPA to BPA	215	215	215	215	215	215	392	392	392	392	392	395	395	395	304	
BPA: Regional Totals	215	215	215	215	215	215	392	392	392	392	392	395	395	395	304	
-Priest Rapids CER for Canada-																
AVWP to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	
COPD to BPA	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	
EWEB to BPA	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GCPD to BPA	6	6	6	6	6	6	11	11	11	11	11	11	11	11	9	
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGE to BPA	2	2	2	2	2	2	4	4	4	4	4	4	4	4	3	
PPL to BPA	2	2	2	2	2	2	4	4	4	4	4	4	4	4	3	
PSE to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	
SCL to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	
TPU to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	
Priest Rapids: Reg. Totals	17	17	17	17	17	17	30	30	30	30	30	30	30	30	24	
-Wanapum CER for Canada-																
AVWP to BPA	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	
COPD to BPA	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	
EWEB to BPA	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GCPD to BPA	6	6	6	6	6	6	11	11	11	11	11	11	11	11	8	
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGE to BPA	3	3	3	3	3	3	5	5	5	5	5	5	5	5	4	
PPL to BPA	3	3	3	3	3	3	5	5	5	5	5	5	5	5	4	
PSE to BPA	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2	
Wanapum: Regional Totals	16	16	16	16	16	16	29	29	29	29	29	29	29	29	23	

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final Proposal																
Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg	
-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	6	4
PSE to BPA	3	3	3	3	3	3	6	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	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	3	2
PSE to BPA	3	3	3	3	3	3	5	5	5	5	4	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	7	6
-Rocky Reach CER for Canada-																
AVWP to BPA	1	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	6	5
CLKM to BPA	5	5	5	5	5	5	9	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	1
PGE to BPA	3	3	3	3	3	3	5	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	2
PSE to BPA	8	8	8	8	8	8	15	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	39	30
-Wells CER for Canada-																
AVWP to BPA	1	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	7	5
OKPD to BPA	1	1	1	1	1	1	2	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	5	4
PPL to BPA	1	1	1	1	1	1	2	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	8	6
Wells: Regional Totals	14	14	14	14	14	14	25	25	25	25	25	25	25	25	25	19
-Total CER For Canada-																
Federal System	215	215	215	215	215	215	392	392	392	392	392	392	395	395	395	304
Public Agencies	30	30	30	30	30	30	54	54	54	54	55	55	55	55	55	42
Investor-Owned Utilities	44	44	44	44	44	44	79	79	79	79	78	78	78	78	78	61
Other Entities	5	5	5	5	5	5	9	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	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**

2003 Safety Net CRAC Final Proposal																
Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg	
-BPA Canada-																
BPA to BPA	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395
BPA: Regional Totals	395	395	395	395	395	395	395	395	395	395						
-Priest Rapids CER for Canada-																
AVWP to BPA	2	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	1
EWEB to BPA	1	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	0
GCPD to BPA	11	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	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	4	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	4
PSE to BPA	2	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	2
TPU to BPA	2	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						
-Wanapum CER for Canada-																
AVWP to BPA	2	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	1
EWEB to BPA	1	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	0
GCPD to BPA	11	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	0
MTFR to BPA	0	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	5
PPL to BPA	5	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	3
Wanapum: Regional Totals	29	29	29	29	29	29	29	29	29	29						

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year**

2003 Safety Net CRAC Final Proposal																
Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg	
-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	6
PSE to BPA	6	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						
-Rock Island P.H. #2 CER for Canada-																
CHPD to BPA	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	3
PSE to BPA	4	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						
-Rocky Reach CER for Canada-																
AVWP to BPA	1	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	6
CLKM to BPA	9	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	1
PGE to BPA	5	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	2
PSE to BPA	15	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						
-Wells CER for Canada-																
AVWP to BPA	1	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	7
OKPD to BPA	2	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	5
PPL to BPA	2	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	8
Wells: Regional Totals	25	25	25	25	25	25	25	25	25	25						
-Total CER For Canada-																
Federal System	395	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	56	55
Investor-Owned Utilities	78	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	9
Non-NW Utilities	0	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						

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

2003 Safety Net CRAC Final Proposal																
Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg	
-BPA Canada-																
BPA to BPA	395	395	395	395	395	395	397	397	397	397	397	397	395	395	395	396
BPA: Regional Totals	395	395	395	395	395	395	397	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	2
COPD to BPA	1	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	1
FGRV to BPA	0	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	11
KITT to BPA	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
MTFR to BPA	0	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	4
PPL to BPA	4	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	2
SCL to BPA	2	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	2
Priest Rapids: Reg. Totals	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	2
COPD to BPA	1	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	1
FGRV to BPA	0	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	11
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	5	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	5
PSE to BPA	3	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						

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

2003 Safety Net CRAC Final Proposal															
Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
<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						
<i>Rock Island P.H. #2 CER for Canada-</i>															
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						
<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	39	39	39	39	39	39	38	38	38	38	38	38	38	38	39
<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	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	535	535	535	537						

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal															
Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-BPA Canada-															
BPA to BPA	395	395	395	395	395	395	396	396	396	396	396	393	393	393	395
BPA: Regional Totals	395	395	395	395	395	395	396	396	396	396	396	393	393	393	395
-Priest Rapids CER for Canada-															
AVWP to BPA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	11	30	30	30	30	30	30	30	30	30	30	30	30	30	28
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCL to BPA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU to BPA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priest Rapids: Reg. Totals	30	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						

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal																
Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg	
<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	6
PSE to BPA	6	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						
<i>Rock Island P.H. #2 CER for Canada-</i>																
CHPD to BPA	4	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	4
Rock Island P.H. #2: Reg. Totals	7	7	7	7	7	7	7	7	7	7						
<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	1
CHPD to BPA	6	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	9
DOPD to BPA	1	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	5
PPL to BPA	2	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	15
Rocky Reach: Regional Totals	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	1
DOPD to BPA	7	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	2
PGE to BPA	5	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	2
PSE to BPA	8	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	24
<i>-Total CER For Canada-</i>																
Federal System	395	395	395	395	395	395	396	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	67	66
Investor-Owned Utilities	77	64	64	64	64	64	63	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	9
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	535	535	535	535	535	532	532	532	535							

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	116	116	116	116	57	57	57	0	0	0	0	0	0	48
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	1,695	1,731	1,335	1,031	1,639	1,255	1,483	1,555	945	1,339	1,486	1,480	768	1,379
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	22	0	0	0	6
BPA To PSE WP3Set	0	116	116	116	116	57	57	57	0	0	0	0	0	0	48
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	2,174	2,235	2,072	1,292	892	742	925	1,514	1,492	1,492	1,495	1,709
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	67	0	0	0	0	0	0	0	0	6
PPL To BPA PkRepl	294	368	302	340	321	285	278	278	268	280	207	240	241	253	286
SUB To BPA PwrS	24	24	24	24	24	24	24	24	24	24	24	0	0	0	20
TPU To BPA PwrX	0	0	0	35	35	35	35	35	35	35	35	35	35	35	26
Total Contracts Out-															
Federal System	2,063	2,457	2,481	2,097	1,730	2,157	1,739	1,966	1,825	1,378	1,688	1,740	1,735	1,065	1,878
Total Contracts Out	2,063	2,457	2,481	2,097	1,730	2,157	1,739	1,966	1,825	1,378	1,688	1,740	1,735	1,065	1,878
Total Contracts In-															
Federal System	2,642	2,619	2,650	2,574	2,615	2,484	1,630	1,229	1,069	1,264	1,780	1,767	1,767	1,841	2,061
Total Contracts In	2,642	2,619	2,650	2,574	2,615	2,484	1,630	1,229	1,069	1,264	1,780	1,767	1,767	1,841	2,061

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2003 - 2004 Fiscal Year**

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	116	116	116	116	57	57	57	0	0	0	0	0	0	48
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	0	0	0	0	0	0
BPA To PPL CapS	238	298	245	276	251	231	226	225	218	227	159	184	184	194	229
BPA To PSE WP3Set	0	116	116	116	116	57	57	57	0	0	0	0	0	0	48
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	1,467	1,466	1,467	1,353	1,353	1,353	1,103	703	603	603	1,353	1,353	1,353	1,353	1,219
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	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	35	35	35	35	35	35	35	35	35	35	35	26
-Total Contracts Out-															
Federal System	600	944	945	750	681	516	433	433	221	336	330	250	251	290	525
Total Contracts Out	600	944	945	750	681	516	433	433	221	336	330	250	251	290	525
-Total Contracts In-															
Federal System	1,762	1,823	1,712	1,664	1,639	1,619	1,364	963	856	865	1,547	1,572	1,572	1,640	1,488
Total Contracts In	1,762	1,823	1,712	1,664	1,639	1,619	1,364	963	856	865	1,547	1,572	1,572	1,640	1,488

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	116	116	116	116	57	57	57	0	0	0	0	0	0	48
BPA To Other Entities	54	54	54	54	54	4	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/PwrX	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	0	0	0	0	0	0
BPA To PSE WP3Set	0	116	116	116	116	57	57	57	0	0	0	0	0	0	48
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	1,353	1,353	1,353	1,353	1,353	1,353	1,103	703	603	603	1,353	1,353	1,353	1,353	1,191
PPL To BPA S/PwrX	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	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	35	35	35	35	35	35	35	35	35	35	35	26
-Total Contracts Out-															
Federal System	344	675	688	685	629	462	380	380	170	283	330	250	251	290	432
Total Contracts Out	344	675	688	685	629	462	380	380	170	283	330	250	251	290	432
-Total Contracts In-															
Federal System	1,592	1,640	1,540	1,599	1,587	1,565	1,311	911	805	812	1,547	1,572	1,572	1,640	1,418
Total Contracts In	1,592	1,640	1,540	1,599	1,587	1,565	1,311	911	805	812	1,547	1,572	1,572	1,640	1,418

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	116	116	116	116	57	57	57	0	0	0	0	0	0	48
BPA To Other Entities	54	54	54	54	54	4	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/PwrX	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	0	0	0	0	0	0
BPA To PSE WP3Set	0	116	116	116	116	57	57	57	0	0	0	0	0	0	48
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	1,353	1,353	1,353	952	955	953	703	701	604	603	952	955	953	953	974
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	0	0	0	0	0	0	0	0	0	0
PPL To BPA S/PwrX	56	58	0	0	0	0	0	0	0	0	0	0	0	58	14
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	35	35	35	35	35	35	35	35	35	35	35	26
-Total Contracts Out-															
Federal System	344	675	688	685	629	462	380	380	170	283	330	250	251	290	432
Total Contracts Out	344	675	688	685	629	462	380	380	170	283	330	250	251	290	432
-Total Contracts In-															
Federal System	1,592	1,640	1,540	1,198	1,189	1,165	911	909	806	812	1,146	1,174	1,172	1,240	1,201
Total Contracts In	1,592	1,640	1,540	1,198	1,189	1,165	911	909	806	812	1,146	1,174	1,172	1,240	1,201

**Table A-17: Capacity Reserves
PNW Loads and Resources Study
2002 - 2003 Fiscal Year
1937 Water year
2003 Safety Net CRAC Final 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															
- <i>Federal Entities</i> -															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
- <i>Federal Entities</i> -															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
- <i>Federal Entities</i> -															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
- <i>Federal Entities</i> -															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-17: Capacity Reserves
PNW Loads and Resources Study
2003 - 2004 Fiscal Year
1937 Water year
2003 Safety Net CRAC Final 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															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

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

**Table A-17: Capacity Reserves
PNW Loads and Resources Study
2005 - 2006 Fiscal Year
1937 Water year
2003 Safety Net CRAC Final 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															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Reserves															
<i>-Federal Entities-</i>															
Total Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

5/19/2003

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal Entities-															
Federal Entities	98	119	134	135	126	118	105	104	102	108	106	103	103	96	113
Total Federal Entities	98	119	134	135	126	118	105	104	102	108	106	103	103	96	113
-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	31	31	31	31	31	31	31	31	31	32
Total Direct Service Industry	34	34	34	34	34	31	31	31	31	31	31	31	31	31	32
-Generating Public Entities-															
Generating Public Entities	1,856	2,212	2,483	2,513	2,477	2,291	2,316	2,309	2,078	1,951	1,730	1,785	1,785	1,857	2,129
Total Generating Public Entities	1,856	2,212	2,483	2,513	2,477	2,291	2,316	2,309	2,078	1,951	1,730	1,785	1,785	1,857	2,129
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	1,015	1,111	1,121	919	877	954	890	861	904	1,062	1,190	1,397	1,072	828	1,007
Total Generating Public Entities (Slice)	1,015	1,111	1,121	919	877	954	890	861	904	1,062	1,190	1,397	1,072	828	1,007
-Non-Generating Public Entities-															
Non-Generating Public Entities	2,346	2,662	3,020	3,110	2,955	2,603	2,495	2,488	2,398	2,455	2,501	2,495	2,494	2,307	2,612
Total Non-Generating Public Entities	2,346	2,662	3,020	3,110	2,955	2,603	2,495	2,488	2,398	2,455	2,501	2,495	2,494	2,307	2,612
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	609	667	673	552	527	573	535	517	543	638	714	839	644	497	605
Total Non-Generating Public Entities (Slice)	609	667	673	552	527	573	535	517	543	638	714	839	644	497	605
-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	98	119	134	135	126	118	105	104	102	108	106	103	103	96	113
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	31	31	31	31	31	31	31	31	31	32
Generating Public Entities	2,871	3,323	3,604	3,432	3,354	3,244	3,206	3,170	2,982	3,013	2,920	3,182	2,858	2,685	3,136
Non-Generating Public Entities	2,955	3,328	3,692	3,662	3,481	3,176	3,030	3,005	2,941	3,093	3,215	3,334	3,137	2,804	3,217
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	6,438	7,210	7,861	7,659	7,390	6,988	6,968	6,907	6,709	6,915	6,983	7,310	6,789	6,191	7,028

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

5/19/2003

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Federal Entities-															
Federal Entities	103	124	139	141	130	123	110	109	107	113	111	108	108	101	117
Total Federal Entities	103	124	139	141	130	123	110	109	107	113	111	108	108	101	117
-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	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
Total Direct Service Industry	31														
-Generating Public Entities-															
Generating Public Entities	1,950	2,315	2,616	2,631	2,557	2,396	2,138	2,132	2,036	1,781	1,792	1,851	1,851	1,919	2,165
Total Generating Public Entities	1,950	2,315	2,616	2,631	2,557	2,396	2,138	2,132	2,036	1,781	1,792	1,851	1,851	1,919	2,165
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	1,004	1,099	1,109	908	865	944	899	870	1,011	1,176	1,196	1,399	1,074	829	1,022
Total Generating Public Entities (Slice)	1,004	1,099	1,109	908	865	944	899	870	1,011	1,176	1,196	1,399	1,074	829	1,022
-Non-Generating Public Entities-															
Non-Generating Public Entities	2,477	2,809	3,174	3,265	3,094	2,737	2,645	2,639	2,551	2,608	2,658	2,652	2,652	2,463	2,761
Total Non-Generating Public Entities	2,477	2,809	3,174	3,265	3,094	2,737	2,645	2,639	2,551	2,608	2,658	2,652	2,652	2,463	2,761
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	603	660	666	545	519	567	540	522	607	706	718	840	645	498	614
Total Non-Generating Public Entities (Slice)	603	660	666	545	519	567	540	522	607	706	718	840	645	498	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														
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
-Power Sales Contracts-															
Federal System	103	124	139	141	130	123	110	109	107	113	111	108	108	101	117
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Direct Service Industry	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
Generating Public Entities	2,954	3,415	3,725	3,539	3,422	3,340	3,037	3,002	3,046	2,957	2,988	3,250	2,925	2,748	3,187
Non-Generating Public Entities	3,080	3,469	3,840	3,810	3,613	3,303	3,184	3,161	3,157	3,314	3,376	3,492	3,297	2,960	3,374
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	6,647	7,446	8,133	7,917	7,592	7,217	6,958	6,900	6,995	7,085	7,217	7,542	7,022	6,415	7,239

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

5/19/2003

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Federal Entities-															
Federal Entities	103	124	139	141	132	124	110	110	107	113	112	109	109	101	118
Total Federal Entities	103	124	139	141	132	124	110	110	107	113	112	109	109	101	118
-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	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
Total Direct Service Industry	81														
-Generating Public Entities-															
Generating Public Entities	1,953	2,335	2,629	2,639	2,605	2,411	2,151	2,145	2,048	1,793	1,799	1,857	1,857	1,920	2,178
Total Generating Public Entities	1,953	2,335	2,629	2,639	2,605	2,411	2,151	2,145	2,048	1,793	1,799	1,857	1,857	1,920	2,178
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	1,013	1,108	1,118	916	874	952	907	874	929	1,064	1,205	1,407	1,081	837	1,013
Total Generating Public Entities (Slice)	1,013	1,108	1,118	916	874	952	907	874	929	1,064	1,205	1,407	1,081	837	1,013
-Non-Generating Public Entities-															
Non-Generating Public Entities	2,521	2,857	3,228	3,315	3,178	2,779	2,686	2,680	2,589	2,648	2,698	2,693	2,693	2,501	2,807
Total Non-Generating Public Entities	2,521	2,857	3,228	3,315	3,178	2,779	2,686	2,680	2,589	2,648	2,698	2,693	2,693	2,501	2,807
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	608	666	671	550	525	572	545	525	558	639	723	845	649	503	608
Total Non-Generating Public Entities (Slice)	608	666	671	550	525	572	545	525	558	639	723	845	649	503	608
-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														
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
-Power Sales Contracts-															
Federal System	103	124	139	141	132	124	110	110	107	113	112	109	109	101	118
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Direct Service Industry	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
Generating Public Entities	2,966	3,443	3,747	3,555	3,479	3,363	3,057	3,018	2,977	2,856	3,003	3,264	2,938	2,757	3,191
Non-Generating Public Entities	3,129	3,523	3,899	3,865	3,702	3,351	3,231	3,204	3,147	3,286	3,421	3,538	3,342	3,004	3,415
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	6,759	7,577	8,264	8,040	7,789	7,337	7,076	7,010	6,965	7,006	7,328	7,652	7,130	6,518	7,335

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

5/19/2003

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Federal Entities-															
Federal Entities	103	125	140	142	133	124	111	110	108	114	112	109	109	102	118
Total Federal Entities	103	125	140	142	133	124	111	110	108	114	112	109	109	102	118
-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	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138
Total Direct Service Industry	138														
-Generating Public Entities-															
Generating Public Entities	1,959	2,340	2,633	2,642	2,609	2,414	2,098	2,092	2,007	1,745	1,753	1,819	1,819	1,881	2,158
Total Generating Public Entities	1,959	2,340	2,633	2,642	2,609	2,414	2,098	2,092	2,007	1,745	1,753	1,819	1,819	1,881	2,158
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	1,015	1,109	1,119	915	873	951	903	869	1,008	1,182	1,204	1,411	1,085	841	1,029
Total Generating Public Entities (Slice)	1,015	1,109	1,119	915	873	951	903	869	1,008	1,182	1,204	1,411	1,085	841	1,029
-Non-Generating Public Entities-															
Non-Generating Public Entities	2,560	2,902	3,277	3,374	3,234	2,829	2,735	2,727	2,636	2,695	2,746	2,740	2,740	2,547	2,856
Total Non-Generating Public Entities	2,560	2,902	3,277	3,374	3,234	2,829	2,735	2,727	2,636	2,695	2,746	2,740	2,740	2,547	2,856
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	609	666	672	550	524	571	542	522	605	709	723	847	651	505	618
Total Non-Generating Public Entities (Slice)	609	666	672	550	524	571	542	522	605	709	723	847	651	505	618
-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														
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
-Power Sales Contracts-															
Federal System	103	125	140	142	133	124	111	110	108	114	112	109	109	102	118
U.S. Bureau of Reclamation	97	24	15	15	13	37	214	214	271	288	329	278	278	193	148
Direct Service Industry	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138
Generating Public Entities	2,973	3,449	3,752	3,558	3,482	3,365	3,001	2,962	3,015	2,927	2,957	3,230	2,903	2,722	3,187
Non-Generating Public Entities	3,169	3,568	3,949	3,924	3,758	3,400	3,277	3,249	3,241	3,404	3,468	3,588	3,392	3,052	3,474
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	6,863	7,686	8,375	8,158	7,906	7,446	7,124	7,055	7,155	7,252	7,386	7,725	7,202	6,588	7,447

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dworshak Small Hydropower	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Elwha Hydro	4	10	11	12	9	9	17	17	9	8	5	8	8	2	9
Glines Hydro	7	14	16	15	14	14	25	25	30	16	11	16	15	4	15
Total NUG Hydro	14	27	31	30	27	26	46	46	42	28	20	28	26	10	27
-NUG: Renewable-															
Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Condon Wind Project	11	13	14	13	13	12	14	14	12	15	11	10	10	10	12
Foote Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Foote Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Foote Creek 4	7	10	12	12	11	8	7	7	5	5	4	4	4	4	7
Klondike Phase 1	8	9	8	8	8	8	9	9	9	9	8	8	8	6	8
Stateline Wind Project	30	33	29	32	29	29	33	33	33	34	30	30	30	24	31
Total NUG: Renewable	62	74	74	77	72	66	68	68	65	67	56	56	56	49	66
-Total Non-Utility Generating Resources-															
Federal Entities	76	101	105	107	98	92	114	114	107	95	76	83	82	59	93
Total Federal Entities	76	101	105	107	98	92	114	114	107	95	76	83	82	59	93

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dworshak Small Hydropower	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Elwha Hydro	4	10	11	12	9	9	17	17	9	8	5	8	8	2	9
Glines Hydro	7	14	16	15	13	14	25	25	30	16	11	16	15	4	15
Total NUG Hydro	14	27	31	30	26	26	46	46	42	28	20	28	26	10	27
-NUG: Renewable-															
Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Condon Wind Project	11	13	14	13	13	12	14	14	12	15	11	10	10	10	12
Foote Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Foote Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Foote Creek 4	7	10	12	12	11	8	7	7	5	5	4	4	4	4	7
Klondike Phase 1	8	9	8	8	8	8	9	9	9	9	8	8	8	6	8
Stateline Wind Project	31	33	29	31	29	29	32	32	33	34	30	29	29	23	30
Total NUG: Renewable	63	74	74	76	71	65	68	68	64	67	56	55	55	48	65
-Total Non-Utility Generating Resources-															
Federal Entities	77	102	104	107	97	91	113	113	107	94	75	83	81	58	92
Total Federal Entities	77	102	104	107	97	91	113	113	107	94	75	83	81	58	92

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dworshak Small Hydropower	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Elwha Hydro	4	10	11	12	9	9	17	17	9	8	5	0	0	0	8
Glines Hydro	7	14	16	15	14	14	25	25	30	16	11	0	0	0	13
Total NUG Hydro	14	27	31	30	27	26	46	46	42	28	20	4	4	4	25
-NUG: Renewable-															
Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Condon Wind Project	11	13	14	13	13	12	14	14	12	15	11	10	10	10	12
Foote Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Foote Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Foote Creek 4	7	10	12	12	11	8	7	7	5	5	4	4	4	4	7
Fourmile Hill Geothermal	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Klondike Phase 1	8	9	8	8	8	8	9	9	9	9	8	8	8	6	8
Stateline Wind Project	30	33	29	31	29	29	32	32	33	34	30	29	29	23	30
Total NUG: Renewable	112	124	123	126	121	115	118	118	114	117	106	105	105	98	115
-Total Non-Utility Generating Resources-															
Federal Entities	126	151	154	157	148	141	163	163	156	144	125	109	109	102	140
Total Federal Entities	126	151	154	157	148	141	163	163	156	144	125	109	109	102	140

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

Average Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dworshak Small Hydropower	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total NUG Hydro	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-NUG: Renewable-															
Ashland Solar Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Condon Wind Project	11	13	14	13	13	12	14	14	12	15	11	10	10	10	12
Foote Creek 1	6	8	10	11	10	7	6	6	5	4	3	3	3	4	6
Foote Creek 2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
Foote Creek 4	7	10	12	12	11	8	7	7	5	5	4	4	4	4	7
Fourmile Hill Geothermal	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Generic Wind (BPA)	25	27	24	26	24	24	27	27	27	28	25	24	24	19	25
Klondike Phase 1	8	9	8	8	8	8	9	9	9	9	8	8	8	6	8
Stateline Wind Project	30	33	29	31	29	29	32	32	33	34	30	29	29	23	30
Total NUG: Renewable	137	151	147	152	145	139	144	144	141	145	130	129	129	117	140
-Total Non-Utility Generating Resources-															
Federal Entities	141	154	151	156	149	143	148	148	145	148	134	133	133	121	144
Total Federal Entities	141	154	151	156	149	143	148	148	145	148	134	133	133	121	144

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

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	8,320	4,160	4,160	8,000	24,640
BPA to AZUS CapS	0	0	0	0	0	0	0	0	0	0	0	965	1,029	1,930	3,924
BPA to AZUS PwrS	0	0	0	0	0	0	0	0	0	2,570	2,656	385	411	770	6,793
BPA to BANN CapS	0	0	0	0	0	0	0	0	0	0	0	320	342	641	1,303
BPA to BANN PwrS	0	0	0	0	0	0	0	0	0	857	885	130	138	259	2,269
BPA to BART PwrS	18,253	17,640	18,228	20,832	18,816	20,832	10,052	10,080	20,832	20,160	20,832	10,080	10,752	20,160	237,549
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	145,200	80,080	80,080	255,720	100,000	139,360	85,280	85,280	134,000	2,004,040
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	6,314	3,356	3,359	10,307	6,652	7,936	4,414	4,467	7,650	93,906
Federal Entities	594,895	562,914	580,684	494,686	447,629	488,103	338,052	338,677	809,511	670,781	732,672	374,446	390,093	704,731	7,527,876

Table A-2: Exports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	8,320	3,840	4,480	8,000	24,640
BPA to BART PwrS	20,860	20,160	20,832	20,832	19,488	20,832	10,052	10,080	20,832	20,160	20,832	10,080	10,752	20,160	245,952
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	108,000	96,000	104,000	72,800	67,200	75,600	36,400	36,400	70,000	72,800	72,800	33,600	39,200	70,000	954,800
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	6,131	5,060	5,775	4,814	4,456	4,226	2,046	2,046	4,736	5,728	5,753	2,688	3,065	5,541	62,067
Federal Entities	658,497	612,146	658,433	624,637	579,679	600,467	294,814	295,443	620,444	643,636	661,338	314,659	343,898	633,592	7,541,685

Table A-2: Exports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BART PwrS	20,860	20,160	20,832	20,832	18,816	20,832	10,052	10,080	20,832	20,160	20,832	10,080	10,752	20,160	245,280
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	5,075	4,280	4,839	4,730	4,372	4,226	2,046	2,048	4,736	5,728	5,347	2,728	2,931	5,301	58,387
Federal Entities	622,642	587,447	627,953	622,653	565,294	601,901	295,453	296,081	621,559	644,782	647,502	317,002	339,008	624,737	7,414,012

Table A-2: Exports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to BART PwrS	20,860	20,160	20,832	20,832	18,816	20,832	10,052	10,080	20,832	20,160	672	0	0	0	184,128
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	3,887	3,448	3,579	3,478	3,285	3,680	1,773	1,673	4,266	4,293	3,362	1,708	1,836	3,316	43,584
Federal Entities	581,288	558,593	584,695	579,629	527,884	582,906	285,921	281,839	606,052	595,029	579,102	281,551	300,941	555,604	6,901,032

Table A-5: Imports
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-5: Imports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-5: Imports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-5: Imports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final 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**

2003 Safety Net CRAC Final 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**

2003 Safety Net CRAC Final 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**

2003 Safety Net CRAC Final 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**

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>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**

2003 Safety Net CRAC Final Proposal

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

**Table A-10: Large Thermal
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>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	192,000	224,000	400,000	4,290,305
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	192,000	224,000	400,000	4,290,305

**Table A-10: Large Thermal
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rock Island P.H. #2 CER for CSPE-															
CHPD to BPA	5	4	4	4	4	3	0	0	0	0	0	0	0	0	24
PSE to BPA	11	9	10	10	9	6	0	0	0	0	0	0	0	0	55
Rock Island P.H. #2: Reg. Totals	15	13	14	14	13	8	0	0	0	0	0	0	0	0	78
-Rocky Reach CER for CSPE-															
AVWP to BPA	8	7	8	8	7	5	0	0	0	0	0	0	0	0	43
CHPD to BPA	43	38	41	41	38	24	0	0	0	0	0	0	0	0	226
CLKM to BPA	66	58	63	62	58	37	0	0	0	0	0	0	0	0	344
DOPD to BPA	8	7	8	7	7	4	0	0	0	0	0	0	0	0	41
PGE to BPA	34	30	33	32	30	19	0	0	0	0	0	0	0	0	179
PPL to BPA	15	13	15	14	13	9	0	0	0	0	0	0	0	0	79
PSE to BPA	111	99	107	104	98	63	0	0	0	0	0	0	0	0	581
Rocky Reach: Regional Totals	286	253	274	268	253	161	0	0	0	0	0	0	0	0	1,495
-Wells CER for CSPE-															
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
-Total CER For CSPE-															
Federal System	2,575	2,281	2,464	2,411	2,274	1,446	0	0	0	0	0	0	0	0	13,451
Public Agencies	255	226	244	238	225	143	0	0	0	0	0	0	0	0	1,330
Investor-Owned Utilities	431	381	412	403	380	242	0	0	0	0	0	0	0	0	2,249
Other Entities	66	58	63	62	58	37	0	0	0	0	0	0	0	0	344
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	3,326	2,946	3,183	3,114	2,937	1,868	0	0	0	0	0	0	0	0	17,374

**Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2003 - 2004 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
Supplemental & Entitlement Capacity															
<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**

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
Supplemental & Entitlement Capacity															
<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

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
Supplemental & Entitlement Capacity															
<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

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
Supplemental & Entitlement Capacity															
<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**

2003 Safety Net CRAC Final Proposal															
Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	159,803	154,440	159,588	159,588	144,144	159,588	140,836	141,228	291,871	282,456	291,871	142,236	151,718	284,472	2,663,839
BPA: Regional Totals	159,803	154,440	159,588	159,588	144,144	159,588	140,836	141,228	291,871	282,456	291,871	142,236	151,718	284,472	2,663,839
-Priest Rapids CER for Canada-															
AVWP to BPA	763	738	762	762	689	762	666	668	1,380	1,335	1,380	668	712	1,335	12,620
COPD to BPA	250	242	250	250	226	250	218	219	452	438	452	219	233	438	4,138
EWEB to BPA	213	206	212	212	192	212	186	186	384	372	384	186	198	372	3,517
FGRV to BPA	63	60	62	62	56	62	55	55	113	109	113	55	58	109	1,034
GCPD to BPA	4,568	4,415	4,562	4,562	4,121	4,562	3,983	3,995	8,255	7,989	8,255	3,995	4,261	7,989	75,513
KITT to BPA	50	48	50	50	45	50	44	44	90	88	90	44	47	88	828
MCMN to BPA	63	60	62	62	56	62	55	55	113	109	113	55	58	109	1,034
MTFR to BPA	63	60	62	62	56	62	55	55	113	109	113	55	58	109	1,034
PGE to BPA	1,740	1,681	1,737	1,737	1,569	1,737	1,517	1,521	3,144	3,042	3,144	1,521	1,623	3,042	28,757
PPL to BPA	1,740	1,681	1,737	1,737	1,569	1,737	1,517	1,521	3,144	3,042	3,144	1,521	1,623	3,042	28,757
PSE to BPA	1,001	968	1,000	1,000	903	1,000	873	876	1,809	1,751	1,809	876	934	1,751	16,551
SCL to BPA	1,001	968	1,000	1,000	903	1,000	873	876	1,809	1,751	1,809	876	934	1,751	16,551
TPU to BPA	1,001	968	1,000	1,000	903	1,000	873	876	1,809	1,751	1,809	876	934	1,751	16,551
Priest Rapids: Reg. Totals	12,516	12,096	12,499	12,499	11,290	12,499	10,914	10,944	22,618	21,888	22,618	10,944	11,674	21,888	206,886
-Wanapum CER for Canada-															
AVWP to BPA	990	956	988	988	893	988	863	865	1,788	1,730	1,788	865	923	1,730	16,354
COPD to BPA	326	315	325	325	294	325	284	285	589	570	589	285	304	570	5,385
EWEB to BPA	278	268	277	277	250	277	242	243	501	485	501	243	259	485	4,587
FGRV to BPA	84	82	84	84	76	84	74	74	153	148	153	74	79	148	1,396
GCPD to BPA	4,405	4,257	4,399	4,399	3,974	4,399	3,839	3,850	7,957	7,700	7,957	3,850	4,107	7,700	72,793
MCMN to BPA	84	82	84	84	76	84	74	74	153	148	153	74	79	148	1,396
MTFR to BPA	84	82	84	84	84	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

Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal															
Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-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
-Rocky Reach CER for Canada-															
AVWP to BPA	464	449	464	464	419	464	404	405	837	810	837	405	432	810	7,664
CHPD to BPA	2,418	2,342	2,420	2,420	2,185	2,420	2,107	2,113	4,368	4,227	4,368	2,113	2,254	4,227	39,983
CLKM to BPA	3,676	3,560	3,679	3,679	3,321	3,679	3,204	3,213	6,639	6,425	6,639	3,213	3,427	6,425	60,780
DOPD to BPA	443	429	443	443	400	443	386	387	800	774	800	387	413	774	7,320
PGE to BPA	1,918	1,858	1,920	1,920	1,733	1,920	1,672	1,676	3,464	3,352	3,464	1,676	1,788	3,352	31,711
PPL to BPA	847	820	848	848	765	848	738	740	1,530	1,481	1,530	740	790	1,481	14,006
PSE to BPA	6,218	6,022	6,222	6,222	5,617	6,222	5,418	5,434	11,229	10,867	11,229	5,434	5,796	10,867	102,798
Rocky Reach: Regional Totals	15,984	15,480	15,996	15,996	14,438	15,996	13,929	13,968	28,867	27,936	28,867	13,968	14,899	27,936	264,261
-Wells CER for Canada-															
AVWP to BPA	380	368	380	380	343	380	331	332	685	663	685	332	354	663	6,276
DOPD to BPA	2,848	2,752	2,844	2,844	2,569	2,844	2,476	2,483	5,132	4,966	5,132	2,483	2,649	4,966	46,987
OKPD to BPA	822	795	821	821	742	821	715	717	1,482	1,434	1,482	717	765	1,434	13,570
PGE to BPA	2,169	2,096	2,166	2,166	1,957	2,166	1,886	1,891	3,909	3,783	3,909	1,891	2,017	3,783	35,792
PPL to BPA	740	715	739	739	668	739	644	645	1,334	1,291	1,334	645	688	1,291	12,213
PSE to BPA	3,321	3,209	3,316	3,316	2,995	3,316	2,887	2,895	5,984	5,791	5,984	2,895	3,088	5,791	54,790
Wells: Regional Totals	10,281	9,936	10,267	10,267	9,274	10,267	8,939	8,964	18,526	17,928	18,526	8,964	9,562	17,928	169,628
-Total CER For Canada-															
Federal System	159,803	154,440	159,588	159,588	144,144	159,588	140,836	141,228	291,871	282,456	291,871	142,236	151,718	284,472	2,663,839
Public Agencies	22,335	21,591	22,311	22,311	20,150	22,311	19,460	19,514	40,329	39,028	40,874	19,778	21,096	39,556	370,644
Investor-Owned Utilities	32,587	31,512	32,563	32,563	29,406	32,563	28,386	28,465	58,829	56,931	58,283	28,202	30,082	56,403	536,774
Other Entities	3,676	3,560	3,679	3,679	3,321	3,679	3,204	3,213	6,639	6,425	6,639	3,213	3,427	6,425	60,780
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	218,401	211,104	218,141	218,141	197,021	218,141	191,886	192,420	397,668	384,840	397,668	193,428	206,323	386,856	3,632,036

Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal															
Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	294,350	284,472	293,954	293,954	274,990	293,954	141,913	142,308	294,103	284,616	294,103	142,308	151,795	284,616	3,471,437
BPA: Regional Totals	294,350	284,472	293,954	293,954	274,990	293,954	141,913	142,308	294,103	284,616	294,103	142,308	151,795	284,616	3,471,437
-Priest Rapids CER for Canada-															
AVWP to BPA	1,382	1,335	1,380	1,380	1,291	1,380	665	667	1,380	1,335	1,380	668	712	1,335	16,287
COPD to BPA	453	438	452	452	423	452	218	219	452	438	452	219	233	438	5,340
EWEB to BPA	385	372	384	384	360	384	185	186	384	372	384	186	198	372	4,539
FGRV to BPA	113	109	113	113	106	113	54	55	113	109	113	55	58	109	1,335
GCPD to BPA	8,267	7,989	8,255	8,255	7,723	8,255	3,978	3,993	8,255	7,987	8,255	3,995	4,260	7,989	97,457
KITT to BPA	91	88	90	90	85	90	44	44	90	88	90	44	47	88	1,068
MCMN to BPA	113	109	113	113	106	113	54	55	113	109	113	55	58	109	1,335
MTFR to BPA	113	109	113	113	106	113	54	55	113	109	113	55	58	109	1,335
PGE to BPA	3,148	3,042	3,144	3,144	2,941	3,144	1,515	1,521	3,144	3,042	3,144	1,521	1,622	3,042	37,114
PPL to BPA	3,148	3,042	3,144	3,144	2,941	3,144	1,515	1,521	3,144	3,042	3,144	1,521	1,622	3,042	37,114
PSE to BPA	1,812	1,751	1,809	1,809	1,693	1,809	872	875	1,809	1,751	1,809	876	934	1,751	21,361
SCL to BPA	1,812	1,751	1,809	1,809	1,693	1,809	872	875	1,809	1,751	1,809	876	934	1,751	21,361
TPU to BPA	1,812	1,751	1,809	1,809	1,693	1,809	872	875	1,809	1,751	1,809	876	934	1,751	21,361
Priest Rapids: Reg. Totals	22,648	21,888	22,618	22,618	21,158	22,618	10,899	10,941	22,618	21,882	22,618	10,944	11,670	21,888	267,006
-Wanapum CER for Canada-															
AVWP to BPA	1,790	1,730	1,788	1,788	1,672	1,788	863	865	1,788	1,730	1,788	865	923	1,730	21,104
COPD to BPA	589	570	589	589	551	589	284	285	589	570	589	285	304	570	6,949
EWEB to BPA	502	485	501	501	469	501	242	243	501	485	501	243	259	485	5,920
FGRV to BPA	153	148	153	153	143	153	74	74	153	148	153	74	79	148	1,802
GCPD to BPA	7,967	7,700	7,957	7,957	7,443	7,957	3,839	3,850	7,957	7,700	7,957	3,850	4,107	7,700	93,940
MCMN to BPA	153	148	153	153	143	153	74	74	153	148	153	74	79	148	1,802
MTFR to BPA	153	148	153	153	143	153	74	74	153	148	153	74	79	148	1,802
PGE to BPA	4,082	3,945	4,076	4,076	3,813	4,076	1,967	1,972	4,076	3,945	4,076	1,972	2,104	3,945	48,128
PPL to BPA	4,082	3,945	4,076	4,076	3,813	4,076	1,967	1,972	4,076	3,945	4,076	1,972	2,104	3,945	48,128
PSE to BPA	2,357	2,278	2,354	2,354	2,202	2,354	1,136	1,139	2,354	2,278	2,354	1,139	1,215	2,278	27,796
Wanapum: Regional Totals	21,829	21,096	21,799	21,799	20,393	21,799	10,519	10,548	21,799	21,096	21,799	10,548	11,251	21,096	257,371

Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal															
Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	4,272	4,128	4,266	4,266	3,991	4,266	2,048	2,053	4,243	4,107	4,243	2,053	2,190	4,107	50,234
PSE to BPA	4,272	4,128	4,266	4,266	3,991	4,266	2,048	2,053	4,243	4,107	4,243	2,053	2,190	4,107	50,234
Rock Island P.H. #1: Reg. Totals	8,544	8,257	8,532	8,532	7,982	8,532	4,095	4,107	8,487	8,213	8,487	4,107	4,380	8,213	100,467
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	2,185	2,112	2,182	2,182	2,041	2,182	1,047	1,050	2,170	2,100	2,713	1,313	1,400	2,625	27,304
PSE to BPA	3,277	3,167	3,273	3,273	3,062	3,273	1,571	1,575	3,256	3,151	2,713	1,313	1,400	2,625	36,930
Rock Island P.H. #2: Reg. Totals	5,462	5,279	5,455	5,455	5,103	5,455	2,618	2,625	5,426	5,251	5,426	2,625	2,801	5,251	64,233
-Rocky Reach CER for Canada-															
AVWP to BPA	838	810	837	837	783	837	404	405	837	809	837	405	432	810	9,882
CHPD to BPA	4,373	4,227	4,368	4,368	4,086	4,368	2,105	2,112	4,368	4,223	4,368	2,113	2,254	4,227	51,557
CLKM to BPA	6,647	6,425	6,639	6,639	6,211	6,639	3,200	3,210	6,639	6,420	6,639	3,213	3,426	6,425	78,376
DOPD to BPA	801	774	800	800	748	800	385	387	800	773	800	387	413	774	9,439
PGE to BPA	3,468	3,352	3,464	3,464	3,241	3,464	1,670	1,675	3,464	3,350	3,464	1,676	1,788	3,352	40,892
PPL to BPA	1,532	1,481	1,530	1,530	1,431	1,530	738	740	1,530	1,479	1,530	740	789	1,481	18,060
PSE to BPA	11,242	10,867	11,229	11,229	10,505	11,229	5,413	5,429	11,229	10,858	11,229	5,434	5,795	10,867	132,557
Rocky Reach: Regional Totals	28,901	27,936	28,867	28,867	27,005	28,867	13,915	13,957	28,867	27,914	28,867	13,968	14,896	27,936	340,763
-Wells CER for Canada-															
AVWP to BPA	686	663	685	685	641	685	331	332	685	663	685	332	354	663	8,093
DOPD to BPA	5,138	4,966	5,132	5,132	4,801	5,132	2,476	2,483	5,132	4,966	5,132	2,483	2,649	4,966	60,586
OKPD to BPA	1,484	1,434	1,482	1,482	1,386	1,482	715	717	1,482	1,434	1,482	717	765	1,434	17,498
PGE to BPA	3,914	3,783	3,909	3,909	3,657	3,909	1,886	1,891	3,909	3,783	3,909	1,891	2,017	3,783	46,150
PPL to BPA	1,336	1,291	1,334	1,334	1,248	1,334	644	645	1,334	1,291	1,334	645	688	1,291	15,748
PSE to BPA	5,992	5,791	5,984	5,984	5,598	5,984	2,887	2,895	5,984	5,791	5,984	2,895	3,088	5,791	70,647
Wells: Regional Totals	18,551	17,928	18,526	18,526	17,330	18,526	8,939	8,964	18,526	17,928	18,526	8,964	9,562	17,928	218,722
-Total CER For Canada-															
Federal System	294,350	284,472	293,954	293,954	274,990	293,954	141,913	142,308	294,103	284,616	294,103	142,308	151,795	284,616	3,471,437
Public Agencies	40,928	39,556	40,874	40,874	38,237	40,874	19,696	19,757	40,840	39,515	41,383	20,024	21,356	40,048	483,962
Investor-Owned Utilities	58,358	56,403	58,283	58,283	54,523	58,283	28,090	28,174	58,243	56,348	57,700	27,920	29,778	55,839	686,225
Other Entities	6,647	6,425	6,639	6,639	6,211	6,639	3,200	3,210	6,639	6,420	6,639	3,213	3,426	6,425	78,376
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	400,283	386,856	399,751	399,751	373,961	399,751	192,898	193,450	399,826	386,899	399,826	193,464	206,355	386,928	4,719,999

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

<i>Heavy Load Hours in MwHr</i>	<i>2003 Safety Net CRAC Final Proposal</i>													<i>Total</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>-BPA Canada-</i>															
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
<i>-Priest Rapids CER for Canada-</i>															
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
<i>-Wanapum CER for Canada-</i>															
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

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

<i>Heavy Load Hours in MwHr</i>	<i>2003 Safety Net CRAC Final Proposal</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>-Rock Island P.H. #1 CER for Canada-</i>															
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
<i>-Rock Island P.H. #2 CER for Canada-</i>															
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
<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	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**

<i>Heavy Load Hours in MwHr</i>	<i>2003 Safety Net CRAC Final Proposal</i>													<i>Total</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>-BPA Canada-</i>															
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
<i>-Priest Rapids CER for Canada-</i>															
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
<i>-Wanapum CER for Canada-</i>															
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

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

<i>Heavy Load Hours in MwHr</i>	<i>2003 Safety Net CRAC Final Proposal</i>														<i>Total</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>-Rock Island P.H. #1 CER for Canada-</i>															
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
<i>-Rock Island P.H. #2 CER for Canada-</i>															
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
<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**

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	37,606	37,606	39,111	36,102	19,319	9,659	9,659	0	0	0	0	0	0	189,063
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	644,816	441,744	735,856	302,696	384,696	904,056	439,400	683,296	391,076	396,648	327,400	8,050,079
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	37,606	37,606	39,111	36,102	19,319	9,659	9,659	0	0	0	0	0	0	189,063
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	941,808	859,728	871,104	271,024	187,824	313,248	321,200	625,248	312,624	312,624	611,200	8,487,008
PPL To BPA PkRepl	13,066	44,299	33,812	22,266	35,572	40,753	9,078	9,042	16,642	19,446	34,103	19,313	21,048	20,417	338,857
PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL To BPA S/Pwr/X	24,192	23,148	0	0	0	0	0	0	0	0	0	0	0	23,148	70,488
SUB To BPA PwrS	10,368	9,600	9,600	9,984	9,216	9,984	4,992	4,992	9,984	9,600	9,984	0	0	0	98,304
TPU To BPA PwrX	0	0	0	14,560	13,440	14,560	7,280	7,280	14,560	14,000	14,560	7,280	7,280	14,000	128,800
-Total Contracts Out-															
Federal System	982,627	1,116,271	1,140,940	975,228	712,870	972,578	411,026	493,026	1,060,519	633,263	841,867	458,405	468,947	470,585	10,738,151
Total Contracts Out	982,627	1,116,271	1,140,940	975,228	712,870	972,578	411,026	493,026	1,060,519	633,263	841,867	458,405	468,947	470,585	10,738,151
-Total Contracts In-															
Federal System	1,035,002	963,047	1,029,412	988,618	917,956	936,401	292,374	209,138	354,434	364,246	683,895	339,217	340,952	668,765	9,123,457
Total Contracts In	1,035,002	963,047	1,029,412	988,618	917,956	936,401	292,374	209,138	354,434	364,246	683,895	339,217	340,952	668,765	9,123,457

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2003 - 2004 Fiscal Year**

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	36,102	39,111	39,111	36,102	20,062	9,659	9,659	0	0	0	0	0	0	189,806
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	37,606	37,606	39,111	37,391	19,319	9,659	9,659	0	0	0	0	0	0	190,352
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	638,496	567,552	614,848	562,848	519,552	584,496	229,424	146,224	241,200	250,848	562,848	259,776	303,072	541,200	6,022,384
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
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	14,560	13,440	15,120	7,280	7,280	14,000	14,560	14,560	6,720	7,840	14,000	129,360
-Total Contracts Out-															
Federal System	284,531	373,320	401,920	319,334	265,424	233,691	95,511	95,511	127,787	167,803	154,807	62,091	68,011	134,664	2,784,404
Total Contracts Out	284,531	373,320	401,920	319,334	265,424	233,691	95,511	95,511	127,787	167,803	154,807	62,091	68,011	134,664	2,784,404
-Total Contracts In-															
Federal System	673,282	625,692	642,263	595,461	561,834	632,659	244,065	160,835	268,693	281,175	603,554	281,302	327,048	594,001	6,491,865
Total Contracts In	673,282	625,692	642,263	595,461	561,834	632,659	244,065	160,835	268,693	281,175	603,554	281,302	327,048	594,001	6,491,865

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	37,606	39,111	37,606	36,102	20,062	9,659	9,659	0	0	0	0	0	0	189,806
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	37,606	37,606	39,111	36,102	19,319	9,659	9,659	0	0	0	0	0	0	189,063
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	562,848	541,200	562,848	541,200	519,552	584,496	229,424	146,224	241,200	250,848	541,200	281,424	303,072	541,200	5,846,736
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
-Total Contracts Out-															
Federal System	165,613	268,665	288,344	281,212	237,137	205,528	82,252	82,252	98,306	139,181	152,066	63,181	68,011	134,664	2,266,411
Total Contracts Out	165,613	268,665	288,344	281,212	237,137	205,528	82,252	82,252	98,306	139,181	152,066	63,181	68,011	134,664	2,266,411
-Total Contracts In-															
Federal System	594,266	591,885	583,866	569,041	555,104	624,949	242,347	159,125	265,545	277,496	581,346	303,510	327,048	594,001	6,269,530
Total Contracts In	594,266	591,885	583,866	569,041	555,104	624,949	242,347	159,125	265,545	277,496	581,346	303,510	327,048	594,001	6,269,530

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	37,606	39,111	37,606	36,102	20,062	9,659	8,916	0	0	0	0	0	0	189,063
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	37,606	37,606	39,111	36,102	19,319	9,659	9,659	0	0	0	0	0	0	189,063
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	562,848	541,200	562,848	381,200	365,952	411,696	146,224	134,976	250,848	250,848	381,200	198,224	213,472	381,200	4,782,736
PPL To BPA PkRepl	8,122	27,537	21,018	13,841	22,112	25,333	5,643	5,621	10,345	12,088	26,146	14,806	16,136	15,653	224,402
PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL To BPA S/Pwr/X	23,296	23,148	0	0	0	0	0	0	0	0	0	0	0	23,148	69,592
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	14,000	13,440	15,120	7,280	6,720	14,560	14,560	14,000	7,280	7,840	14,000	128,800
-Total Contracts Out-															
Federal System	165,613	268,665	288,344	281,212	237,137	205,528	82,252	80,019	98,363	139,181	152,066	63,153	68,011	134,664	2,264,208
Total Contracts Out	165,613	268,665	288,344	281,212	237,137	205,528	82,252	80,019	98,363	139,181	152,066	63,153	68,011	134,664	2,264,208
-Total Contracts In-															
Federal System	594,266	591,885	583,866	409,041	401,504	452,149	159,147	147,317	275,753	277,496	421,346	220,310	237,448	434,001	5,205,530
Total Contracts In	594,266	591,885	583,866	409,041	401,504	452,149	159,147	147,317	275,753	277,496	421,346	220,310	237,448	434,001	5,205,530

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

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
Federal Entities-															
Federal Entities	44,934	52,427	59,682	60,954	50,894	52,786	23,157	23,157	46,958	47,628	49,628	22,660	24,353	43,146	602,363
Total Federal Entities	44,934	52,427	59,682	60,954	50,894	52,786	23,157	23,157	46,958	47,628	49,628	22,660	24,353	43,146	602,363
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	822,635	947,285	1,094,059	1,112,981	986,401	1,000,036	494,616	494,616	918,309	820,384	776,496	382,303	407,790	812,138	11,070,050
Total Generating Public Entities	822,635	947,285	1,094,059	1,112,981	986,401	1,000,036	494,616	494,616	918,309	820,384	776,496	382,303	407,790	812,138	11,070,050
Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	506,459	524,544	561,334	439,403	382,281	438,017	193,078	189,809	437,309	507,021	579,209	331,996	264,610	393,473	5,748,543
Total Generating Public Entities (Slice)	506,459	524,544	561,334	439,403	382,281	438,017	193,078	189,809	437,309	507,021	579,209	331,996	264,610	393,473	5,748,543
Non-Generating Public Entities-															
Non-Generating Public Entities	1,080,901	1,174,392	1,369,311	1,417,595	1,208,328	1,169,574	547,476	547,476	1,094,986	1,070,344	1,148,126	550,731	585,969	1,031,866	13,997,074
Total Non-Generating Public Entities	1,080,901	1,174,392	1,369,311	1,417,595	1,208,328	1,169,574	547,476	547,476	1,094,986	1,070,344	1,148,126	550,731	585,969	1,031,866	13,997,074
Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	304,103	314,962	337,053	263,839	229,541	263,007	115,934	113,971	262,582	304,441	347,786	199,347	158,885	236,261	3,451,712
Total Non-Generating Public Entities (Slice)	304,103	314,962	337,053	263,839	229,541	263,007	115,934	113,971	262,582	304,441	347,786	199,347	158,885	236,261	3,451,712
Investor-Owned Entities-															
Investor-Owned Entities	165,024	152,800	152,800	158,912	146,688	158,912	79,456	79,456	158,912	152,800	158,912	79,456	79,456	152,800	1,876,384
Total Investor-Owned Entities	165,024	152,800	152,800	158,912	146,688	158,912	79,456	79,456	158,912	152,800	158,912	79,456	79,456	152,800	1,876,384
Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
Power Sales Contracts-															
Federal System	44,934	52,427	59,682	60,954	50,894	52,786	23,157	23,157	46,958	47,628	49,628	22,660	24,353	43,146	602,363
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	1,329,094	1,471,829	1,655,393	1,552,384	1,368,682	1,438,053	687,694	684,426	1,355,618	1,327,406	1,355,704	714,299	672,400	1,205,611	16,818,593
Non-Generating Public Entities	1,385,004	1,489,354	1,706,363	1,681,434	1,437,869	1,432,581	663,409	661,446	1,357,569	1,374,784	1,495,912	750,078	744,854	1,268,127	17,448,785
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	2,981,114	3,189,799	3,593,917	3,473,944	3,022,195	3,112,196	1,505,675	1,500,467	3,048,196	3,033,791	3,214,134	1,632,072	1,587,764	2,761,963	37,657,228

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

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
<i>Federal Entities-</i>															
Federal Entities	46,975	53,868	62,720	63,257	53,109	55,645	24,174	24,174	48,386	50,266	51,739	23,892	25,297	45,172	628,674
Total Federal Entities	46,975	53,868	62,720	63,257	53,109	55,645	24,174	24,174	48,386	50,266	51,739	23,892	25,297	45,172	628,674
<i>U.S. Bureau of Reclamation-</i>															
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
<i>Direct Service Industry-</i>															
Direct Service Industry	14,688	13,056	14,144	14,144	13,056	14,688	7,072	7,072	13,600	14,144	14,144	6,528	7,616	13,600	167,552
Total Direct Service Industry	14,688	13,056	14,144	14,144	13,056	14,688	7,072	7,072	13,600	14,144	14,144	6,528	7,616	13,600	167,552
<i>Generating Public Entities-</i>															
Generating Public Entities	865,331	980,934	1,164,431	1,162,795	1,042,747	1,058,872	458,203	458,203	888,683	766,638	802,716	397,626	424,134	838,027	11,309,342
Total Generating Public Entities	865,331	980,934	1,164,431	1,162,795	1,042,747	1,058,872	458,203	458,203	888,683	766,638	802,716	397,626	424,134	838,027	11,309,342
<i>Generating Public Entities (Slice)-</i>															
Generating Public Entities (Slice)	502,674	517,879	558,651	434,995	377,138	436,843	194,811	191,726	479,570	554,240	581,689	330,405	267,056	394,004	5,821,680
Total Generating Public Entities (Slice)	502,674	517,879	558,651	434,995	377,138	436,843	194,811	191,726	479,570	554,240	581,689	330,405	267,056	394,004	5,821,680
<i>Non-Generating Public Entities-</i>															
Non-Generating Public Entities	1,140,427	1,228,119	1,450,404	1,488,536	1,279,419	1,240,306	580,005	580,005	1,153,414	1,146,637	1,219,584	583,467	624,495	1,100,386	14,815,203
Total Non-Generating Public Entities	1,140,427	1,228,119	1,450,404	1,488,536	1,279,419	1,240,306	580,005	580,005	1,153,414	1,146,637	1,219,584	583,467	624,495	1,100,386	14,815,203
<i>Non-Generating Public Entities (Slice)-</i>															
Non-Generating Public Entities (Slice)	301,830	310,960	335,442	261,192	226,452	262,303	116,974	115,122	287,958	332,793	349,275	198,391	160,354	236,580	3,495,627
Total Non-Generating Public Entities (Slice)	301,830	310,960	335,442	261,192	226,452	262,303	116,974	115,122	287,958	332,793	349,275	198,391	160,354	236,580	3,495,627
<i>Investor-Owned Entities-</i>															
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
<i>Other Entities-</i>															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
<i>Power Sales Contracts-</i>															
Federal System	46,975	53,868	62,720	63,257	53,109	55,645	24,174	24,174	48,386	50,266	51,739	23,892	25,297	45,172	628,674
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	14,688	13,056	14,144	14,144	13,056	14,688	7,072	7,072	13,600	14,144	14,144	6,528	7,616	13,600	167,552
Generating Public Entities	1,368,005	1,498,813	1,723,081	1,597,790	1,419,884	1,495,715	653,014	649,929	1,368,254	1,320,878	1,384,405	728,031	691,190	1,232,031	17,131,022
Non-Generating Public Entities	1,442,257	1,539,080	1,785,846	1,749,728	1,505,872	1,502,609	696,979	695,127	1,441,372	1,479,431	1,568,859	781,858	784,848	1,336,966	18,310,830
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	3,079,319	3,260,903	3,751,024	3,589,947	3,143,630	3,249,783	1,505,582	1,500,667	3,136,220	3,144,560	3,317,893	1,668,954	1,657,353	2,859,248	38,865,084

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

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
Federal Entities-															
Federal Entities	46,558	54,839	62,978	62,734	53,373	55,858	24,270	24,270	48,583	50,455	51,380	24,217	25,834	45,372	630,721
Total Federal Entities	46,558	54,839	62,978	62,734	53,373	55,858	24,270	24,270	48,583	50,455	51,380	24,217	25,834	45,372	630,721
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	34,944	33,600	34,944	33,600	32,256	36,288	17,472	17,472	33,600	34,944	33,600	16,848	18,144	32,400	410,112
Total Direct Service Industry	34,944	33,600	34,944	33,600	32,256	36,288	17,472	17,472	33,600	34,944	33,600	16,848	18,144	32,400	410,112
Generating Public Entities-															
Generating Public Entities	856,587	1,000,727	1,170,266	1,154,043	1,033,762	1,065,435	460,962	460,962	894,205	771,638	796,724	403,316	430,203	838,479	11,337,308
Total Generating Public Entities	856,587	1,000,727	1,170,266	1,154,043	1,033,762	1,065,435	460,962	460,962	894,205	771,638	796,724	403,316	430,203	838,479	11,337,308
Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	503,903	523,877	562,364	435,894	369,781	440,407	196,457	192,317	446,283	507,445	583,112	334,105	268,621	397,395	5,761,961
Total Generating Public Entities (Slice)	503,903	523,877	562,364	435,894	369,781	440,407	196,457	192,317	446,283	507,445	583,112	334,105	268,621	397,395	5,761,961
Non-Generating Public Entities-															
Non-Generating Public Entities	1,151,873	1,260,492	1,475,678	1,499,416	1,299,056	1,259,692	589,100	589,100	1,171,227	1,164,228	1,227,609	598,404	638,535	1,117,564	15,041,975
Total Non-Generating Public Entities	1,151,873	1,260,492	1,475,678	1,499,416	1,299,056	1,259,692	589,100	589,100	1,171,227	1,164,228	1,227,609	598,404	638,535	1,117,564	15,041,975
Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	302,569	314,562	337,671	261,733	222,035	264,442	117,963	115,477	267,971	304,695	350,129	200,613	161,294	238,616	3,459,769
Total Non-Generating Public Entities (Slice)	302,569	314,562	337,671	261,733	222,035	264,442	117,963	115,477	267,971	304,695	350,129	200,613	161,294	238,616	3,459,769
Investor-Owned Entities-															
Investor-Owned Entities	158,912	152,800	158,912	152,800	146,688	165,024	79,456	79,456	152,800	158,912	152,800	79,456	85,568	152,800	1,876,384
Total Investor-Owned Entities	158,912	152,800	158,912	152,800	146,688	165,024	79,456	79,456	152,800	158,912	152,800	79,456	85,568	152,800	1,876,384
Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
Power Sales Contracts-															
Federal System	46,558	54,839	62,978	62,734	53,373	55,858	24,270	24,270	48,583	50,455	51,380	24,217	25,834	45,372	630,721
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	34,944	33,600	34,944	33,600	32,256	36,288	17,472	17,472	33,600	34,944	33,600	16,848	18,144	32,400	410,112
Generating Public Entities	1,360,490	1,524,604	1,732,630	1,589,937	1,403,544	1,505,842	657,419	653,279	1,340,488	1,279,083	1,379,836	737,420	698,825	1,235,873	17,099,269
Non-Generating Public Entities	1,454,442	1,575,053	1,813,349	1,761,149	1,521,091	1,524,134	707,063	704,577	1,439,197	1,468,923	1,577,738	799,017	799,828	1,356,180	18,501,743
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	3,096,528	3,350,685	3,809,135	3,606,100	3,161,959	3,303,248	1,530,566	1,523,963	3,126,477	3,113,245	3,331,562	1,715,465	1,691,033	2,901,304	39,261,271

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

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
<i>Federal Entities-</i>															
Federal Entities	46,766	55,081	63,236	62,999	53,638	56,071	23,945	24,124	49,406	50,643	51,587	24,348	25,974	45,571	633,389
Total Federal Entities	46,766	55,081	63,236	62,999	53,638	56,071	23,945	24,124	49,406	50,643	51,587	24,348	25,974	45,571	633,389
<i>U.S. Bureau of Reclamation-</i>															
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
<i>Direct Service Industry-</i>															
Direct Service Industry	57,408	55,200	57,408	55,200	52,992	59,616	28,704	26,496	57,408	57,408	55,200	28,704	30,912	55,200	677,856
Total Direct Service Industry	57,408	55,200	57,408	55,200	52,992	59,616	28,704	26,496	57,408	57,408	55,200	28,704	30,912	55,200	677,856
<i>Generating Public Entities-</i>															
Generating Public Entities	859,263	1,002,958	1,172,230	1,156,057	1,035,519	1,067,251	445,581	445,581	885,028	752,100	778,139	395,382	421,740	823,120	11,239,950
Total Generating Public Entities	859,263	1,002,958	1,172,230	1,156,057	1,035,519	1,067,251	445,581	445,581	885,028	752,100	778,139	395,382	421,740	823,120	11,239,950
<i>Generating Public Entities (Slice)-</i>															
Generating Public Entities (Slice)	504,595	524,223	562,553	435,509	369,667	440,067	195,754	189,150	480,142	556,566	582,629	334,946	269,425	398,886	5,844,112
Total Generating Public Entities (Slice)	504,595	524,223	562,553	435,509	369,667	440,067	195,754	189,150	480,142	556,566	582,629	334,946	269,425	398,886	5,844,112
<i>Non-Generating Public Entities-</i>															
Non-Generating Public Entities	1,169,862	1,280,258	1,498,606	1,526,016	1,322,191	1,282,504	595,427	594,004	1,202,495	1,185,018	1,249,451	609,077	649,919	1,138,071	15,302,900
Total Non-Generating Public Entities	1,169,862	1,280,258	1,498,606	1,526,016	1,322,191	1,282,504	595,427	594,004	1,202,495	1,185,018	1,249,451	609,077	649,919	1,138,071	15,302,900
<i>Non-Generating Public Entities (Slice)-</i>															
Non-Generating Public Entities (Slice)	302,984	314,769	337,785	261,501	221,967	264,238	117,541	113,575	288,301	334,190	349,840	201,118	161,776	239,511	3,509,096
Total Non-Generating Public Entities (Slice)	302,984	314,769	337,785	261,501	221,967	264,238	117,541	113,575	288,301	334,190	349,840	201,118	161,776	239,511	3,509,096
<i>Investor-Owned Entities-</i>															
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
<i>Other Entities-</i>															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
<i>Power Sales Contracts-</i>															
Federal System	46,766	55,081	63,236	62,999	53,638	56,071	23,945	24,124	49,406	50,643	51,587	24,348	25,974	45,571	633,389
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	57,408	55,200	57,408	55,200	52,992	59,616	28,704	26,496	57,408	57,408	55,200	28,704	30,912	55,200	677,856
Generating Public Entities	1,363,858	1,527,181	1,734,783	1,591,567	1,405,187	1,507,318	641,336	634,731	1,365,170	1,308,666	1,360,768	730,327	691,165	1,222,007	17,084,062
Non-Generating Public Entities	1,472,846	1,595,028	1,836,391	1,787,518	1,544,158	1,546,742	712,968	707,579	1,490,796	1,519,208	1,599,291	810,195	811,695	1,377,583	18,811,996
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	3,140,972	3,395,079	3,857,051	3,655,964	3,207,669	3,350,872	1,531,295	1,508,377	3,236,687	3,215,765	3,355,854	1,731,537	1,708,149	2,931,840	39,827,109

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

2003 Safety Net CRAC Final Proposal

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	432	400	400	416	384	416	208	208	416	400	416	208	208	400	4,912
Dworshak Small Hydropower	1,136	1,052	1,052	1,094	1,010	1,094	547	547	1,094	1,052	1,094	547	547	1,052	12,919
Elwha Hydro	1,586	4,027	4,584	5,057	3,507	3,703	3,531	3,531	3,848	3,526	2,202	1,731	1,731	895	43,458
Glines Hydro	2,864	6,028	6,726	6,314	5,379	5,638	5,285	5,285	12,801	6,452	4,317	3,367	3,367	1,533	75,355
Total NUG Hydro	6,018	11,507	12,763	12,881	10,280	10,851	9,571	9,571	18,159	11,430	8,030	5,852	5,852	3,880	136,644
-NUG: Renewable-															
Ashland Solar Project	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
Condon Wind Project	4,838	5,320	5,480	5,366	4,800	4,992	2,891	2,891	5,158	5,840	4,410	2,142	2,142	4,040	60,312
Foote Creek 1	2,419	3,320	4,039	4,409	3,686	2,995	1,206	1,206	1,913	1,640	1,373	686	686	1,520	31,098
Foote Creek 2	302	400	520	541	461	374	146	146	208	200	166	83	83	200	3,830
Foote Creek 4	2,808	3,880	4,720	5,117	4,339	3,494	1,394	1,394	2,246	1,920	1,581	811	811	1,760	36,275
Klondike Phase 1	3,499	3,520	3,120	3,453	2,995	3,245	1,789	1,789	3,661	3,640	3,328	1,643	1,643	2,480	39,805
Stateline Wind Project	13,078	13,116	11,740	13,116	11,305	12,247	6,804	6,804	13,797	13,738	12,587	6,199	6,199	9,449	150,177
Total NUG: Renewable	26,946	29,556	29,620	32,002	27,587	27,348	14,230	14,230	26,986	26,979	23,446	11,566	11,566	19,451	321,513
-Total Non-Utility Generating Resources-															
Federal Entities	32,964	41,063	42,382	44,883	37,866	38,200	23,801	23,801	45,145	38,409	31,476	17,418	17,418	23,331	458,157
Total Federal Entities	32,964	41,063	42,382	44,883	37,866	38,200	23,801	23,801	45,145	38,409	31,476	17,418	17,418	23,331	458,157

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

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	432	384	416	416	384	432	208	208	400	416	416	192	224	400	4,928
Dworshak Small Hydropower	1,136	1,010	1,094	1,094	1,010	1,136	547	547	1,052	1,094	1,094	505	589	1,052	12,961
Elwha Hydro	1,586	4,027	4,584	5,057	3,507	3,703	3,531	3,531	3,848	3,526	2,202	1,731	1,731	895	43,458
Glines Hydro	2,864	6,028	6,726	6,314	5,379	5,638	5,285	5,285	12,801	6,452	4,317	3,367	3,367	1,533	75,355
Total NUG Hydro	6,018	11,449	12,821	12,881	10,280	10,909	9,571	9,571	18,101	11,488	8,030	5,794	5,910	3,880	136,702
-NUG: Renewable-															
Ashland Solar Project	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
Condon Wind Project	4,838	5,107	5,699	5,366	4,800	5,184	2,891	2,891	4,960	6,074	4,410	1,978	2,307	4,040	60,546
Foote Creek 1	2,419	3,187	4,201	4,409	3,686	3,110	1,206	1,206	1,840	1,705	1,373	634	739	1,520	31,234
Foote Creek 2	302	384	541	541	461	389	146	146	200	208	166	77	90	200	3,850
Foote Creek 4	2,808	3,725	4,909	5,117	4,339	3,629	1,394	1,394	2,160	1,997	1,581	749	874	1,760	36,434
Klondike Phase 1	3,499	3,379	3,245	3,453	2,995	3,370	1,789	1,789	3,520	3,786	3,328	1,517	1,770	2,480	39,918
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	27,096	28,518	30,587	31,769	27,385	28,174	14,109	14,109	25,711	27,805	23,223	10,575	12,337	19,283	320,680
-Total Non-Utility Generating Resources-															
Federal Entities	33,114	39,968	43,408	44,651	37,665	39,083	23,680	23,680	43,812	39,292	31,252	16,369	18,247	23,162	457,383
Total Federal Entities	33,114	39,968	43,408	44,651	37,665	39,083	23,680	23,680	43,812	39,292	31,252	16,369	18,247	23,162	457,383

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

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	416	400	416	400	384	432	208	208	400	416	400	208	224	400	4,912
Dworshak Small Hydropower	1,094	1,052	1,094	1,052	1,010	1,136	547	547	1,052	1,094	1,052	547	589	1,052	12,919
Elwha Hydro	1,586	4,027	4,584	5,057	3,507	3,703	3,531	3,531	3,848	3,526	2,202	0	0	0	39,102
Glines Hydro	2,864	6,028	6,726	6,314	5,379	5,638	5,285	5,285	12,801	6,452	4,317	0	0	0	67,089
Total NUG Hydro	5,960	11,507	12,821	12,823	10,280	10,909	9,571	9,571	18,101	11,488	7,972	755	813	1,452	124,022
-NUG: Renewable-															
Ashland Solar Project	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
Condon Wind Project	4,659	5,320	5,699	5,160	4,800	5,184	2,891	2,891	4,960	6,074	4,240	2,142	2,307	4,040	60,368
Foote Creek 1	2,329	3,320	4,201	4,239	3,686	3,110	1,206	1,206	1,840	1,705	1,320	686	739	1,520	31,108
Foote Creek 2	291	400	541	520	461	389	146	146	200	208	160	83	90	200	3,834
Foote Creek 4	2,704	3,880	4,909	4,920	4,339	3,629	1,394	1,394	2,160	1,997	1,520	811	874	1,760	36,290
Fourmile Hill Geothermal	20,758	19,960	20,758	19,960	19,162	21,557	10,379	10,379	19,960	20,758	19,960	10,379	11,178	19,960	245,109
Klondike Phase 1	3,370	3,520	3,245	3,320	2,995	3,370	1,789	1,789	3,520	3,786	3,200	1,643	1,770	2,480	39,795
Stateline Wind Project	12,512	13,030	11,992	12,387	11,103	12,491	6,683	6,683	13,030	14,034	11,888	6,089	6,557	9,281	147,759
Total NUG: Renewable	46,625	49,430	51,345	50,507	46,547	49,730	24,488	24,488	45,671	48,563	42,289	21,835	23,515	39,243	564,277
-Total Non-Utility Generating Resources-															
Federal Entities	52,584	60,938	64,166	63,331	56,827	60,640	34,059	34,059	63,772	60,051	50,261	22,590	24,328	40,695	688,299
Total Federal Entities	52,584	60,938	64,166	63,331	56,827	60,640	34,059	34,059	63,772	60,051	50,261	22,590	24,328	40,695	688,299

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

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	416	400	416	400	384	432	208	192	416	416	400	208	224	400	4,912
Dworshak Small Hydropower	1,094	1,052	1,094	1,052	1,010	1,136	547	505	1,094	1,094	1,052	547	589	1,052	12,919
Total NUG Hydro	1,510	1,452	1,510	1,452	1,394	1,568	755	697	1,510	1,510	1,452	755	813	1,452	17,831
-NUG: Renewable-															
Ashland Solar Project	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
Condon Wind Project	4,659	5,320	5,699	5,160	4,800	5,184	2,891	2,669	5,158	6,074	4,240	2,142	2,307	4,040	60,344
Foote Creek 1	2,329	3,320	4,201	4,239	3,686	3,110	1,206	1,113	1,913	1,705	1,320	686	739	1,520	31,089
Foote Creek 2	291	400	541	520	461	389	146	134	208	208	160	83	90	200	3,830
Foote Creek 4	2,704	3,880	4,909	4,920	4,339	3,629	1,394	1,286	2,246	1,997	1,520	811	874	1,760	36,269
Fourmile Hill Geothermal	20,758	19,960	20,758	19,960	19,162	21,557	10,379	9,581	20,758	20,758	19,960	10,379	11,178	19,960	245,109
Generic Wind (BPA)	10,364	10,794	9,933	10,309	9,240	10,396	5,561	5,133	11,277	11,679	9,893	5,067	5,457	7,724	122,828
Klondike Phase 1	3,370	3,520	3,245	3,320	2,995	3,370	1,789	1,651	3,661	3,786	3,200	1,643	1,770	2,480	39,798
Stateline Wind Project	12,512	13,030	11,992	12,387	11,103	12,491	6,683	6,169	13,551	14,034	11,888	6,089	6,557	9,281	147,766
Total NUG: Renewable	56,988	60,224	61,279	60,817	55,787	60,126	30,049	27,738	58,775	60,242	52,183	26,902	28,972	46,967	687,048
-Total Non-Utility Generating Resources-															
Federal Entities	58,498	61,676	62,789	62,269	57,181	61,694	30,804	28,435	60,285	61,752	53,635	27,657	29,785	48,419	704,879
Total Federal Entities	58,498	61,676	62,789	62,269	57,181	61,694	30,804	28,435	60,285	61,752	53,635	27,657	29,785	48,419	704,879

2.7.4 LLH SUPPORTING DATA

Monthly Light Load Energy

In Megawatt Hours Analysis

For FY 2003-2006

Table A-2: Exports
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	6,560	3,040	3,520	6,400	19,520
BPA to AZUS CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to AZUS PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BANN CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BANN PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BART PwrS	7,823	7,560	7,812	8,928	8,064	8,928	4,308	4,320	8,928	8,640	8,928	4,320	4,608	8,640	101,807
BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to CLTN CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to CLTN PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to MSR PwrS	0	0	0	0	0	0	0	0	0	21,000	21,300	2,532	4,781	5,664	55,277
BPA to Other ECD Entities	17,925	21,774	26,519	26,001	22,551	22,982	10,221	10,220	17,805	18,337	20,867	9,239	9,846	16,793	251,078
BPA to Other PSW Entities	156,500	165,200	172,000	98,400	86,400	98,400	52,850	53,200	131,200	80,000	82,000	38,000	44,000	80,000	1,338,150
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to SPP PwrS	14,085	14,400	15,480	14,760	12,960	14,760	11,325	11,400	24,600	24,000	24,600	11,400	13,200	24,000	230,970
BPA NW-SW Intertie Losses	4,930	5,183	5,394	3,220	2,834	3,220	1,715	1,726	4,204	3,289	3,564	1,437	1,707	3,021	45,443
Federal Entities	201,262	214,117	227,205	151,309	132,809	148,290	80,419	80,866	186,737	155,266	167,818	69,967	81,662	144,518	2,042,244

Table A-2: Exports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	6,560	3,360	3,200	6,400	19,520
BPA to BART PwrS	8,940	8,640	8,928	8,928	8,352	8,928	4,308	4,320	8,928	8,640	8,928	4,320	4,608	8,640	105,408
BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to MSR PwrS	0	0	0	0	0	0	0	0	0	18,600	21,300	4,932	2,381	5,664	52,877
BPA to Other ECD Entities	18,842	22,848	27,796	27,252	23,637	24,113	10,728	10,728	18,731	19,278	21,915	9,707	10,354	17,674	263,600
BPA to Other PSW Entities	78,250	84,000	82,000	57,400	54,600	54,600	26,425	26,600	60,200	53,200	57,400	29,400	28,000	56,000	748,075
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to SPP PwrS	14,085	15,120	14,760	14,760	14,040	14,040	11,325	11,400	25,800	22,800	24,600	12,600	12,000	24,000	231,330
BPA NW-SW Intertie Losses	2,616	2,779	2,728	1,990	1,889	1,906	922	928	2,074	2,413	2,826	1,260	1,146	2,301	27,776
Federal Entities	122,733	133,387	136,212	110,329	102,517	103,587	53,708	53,975	115,733	124,931	143,528	65,579	61,688	120,679	1,448,587

Table A-2: Exports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to ANHM PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BART PwrS	8,940	8,640	8,928	8,928	8,064	8,928	4,308	4,320	8,928	8,640	8,928	4,320	4,608	8,640	105,120
BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to MSR PwrS	0	0	0	0	0	0	0	0	0	18,600	23,700	2,532	2,381	5,664	52,877
BPA to Other ECD Entities	19,590	23,755	28,900	28,331	24,573	25,069	11,153	11,153	19,474	20,041	22,774	10,087	10,759	18,367	274,026
BPA to Other PSW Entities	57,575	56,000	57,400	60,200	50,400	54,600	26,425	26,600	60,200	53,200	60,200	26,600	28,000	56,000	673,400
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to SPP PwrS	14,805	14,400	14,760	15,480	12,960	14,040	11,325	11,400	25,800	22,800	25,800	11,400	12,000	24,000	230,970
BPA NW-SW Intertie Losses	1,995	1,939	1,990	2,074	1,754	1,906	922	928	2,074	2,413	2,785	1,004	1,050	2,109	24,942
Federal Entities	102,905	104,734	111,978	115,013	97,751	104,543	54,133	54,401	116,476	125,695	144,187	55,942	58,798	114,781	1,361,335

Table A-2: Exports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BPA to BART PwrS	8,940	8,640	8,928	8,928	8,064	8,928	4,308	4,320	8,928	8,640	288	0	0	0	78,912
BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to Other ECD Entities	20,356	24,685	30,031	29,441	25,534	26,051	11,591	11,591	20,240	20,827	23,745	10,519	11,221	19,149	284,980
BPA to Other PSW Entities	69,090	67,200	68,880	72,240	60,480	65,520	31,710	35,280	68,880	63,840	72,240	31,920	33,600	67,200	808,080
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA to SPP PwrS	14,805	14,400	14,760	15,480	12,960	14,040	11,325	12,600	24,600	22,800	25,800	11,400	12,000	24,000	230,970
BPA NW-SW Intertie Losses	2,341	2,275	2,334	2,435	2,056	2,233	1,081	1,188	2,334	2,174	2,176	958	1,008	2,016	26,610
Federal Entities	115,532	117,200	124,934	128,524	109,095	116,773	60,014	64,979	124,982	118,281	124,249	54,797	57,829	112,365	1,429,552

Table A-5: Imports
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-5: Imports
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-5: Imports
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-5: Imports
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
BURB To BPA PkRepl	2,993	1,929	1,993	1,993	1,800	1,993	962	964	2,989	3,857	3,986	1,929	2,057	3,857	33,302
BURB To BPA XchgNrg	1,941	2,748	3,740	3,740	3,378	3,740	1,805	938	1,939	1,876	1,939	938	1,001	1,876	31,599
GLEN To BPA PkRepl	3,326	2,143	2,215	2,215	2,001	2,215	1,069	1,072	3,322	4,286	4,429	2,143	2,286	4,286	37,008
GLEN To BPA XchgNrg	2,157	3,053	4,156	4,156	3,753	4,156	2,005	1,042	2,154	2,084	2,154	1,042	1,112	2,084	35,108
Other ISW Entities To BPA	16,450	16,000	16,400	17,200	14,400	15,600	7,550	8,400	0	0	17,200	7,600	8,000	16,000	160,800
Other PSW Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PASA To BPA PkRepl	1,996	1,286	1,329	1,329	1,200	1,329	641	643	1,993	2,571	2,657	1,286	1,371	2,571	22,202
PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
PASA To BPA S/N/X	514	497	513	513	464	238	0	0	0	0	0	0	0	497	3,236
PASA To BPA XchgNrg	2,593	2,506	2,589	2,589	2,339	1,295	0	0	0	0	0	0	0	2,506	16,415
PASA To BPA XchgNrg	1,294	1,832	2,493	2,493	2,252	2,493	1,203	625	1,292	1,251	1,292	625	667	1,251	21,063
PPLE To BPA PwrS	35,598	51,456	70,618	64,947	41,760	36,473	13,530	15,053	33	5,533	11,627	1,961	2,064	13,472	364,124
RVSD To BPA PkRepl	0	3,456	3,571	3,571	3,226	3,571	1,723	1,728	5,059	0	0	0	0	0	25,906
RVSD To BPA PkRepl	5,066	0	0	0	0	0	0	0	0	4,896	5,059	2,448	2,611	4,896	24,976
RVSD To BPA PkRepl	7,972	1,944	2,009	2,009	1,814	2,009	969	972	0	0	7,961	3,852	4,109	7,704	43,323
RVSD To BPA S/Pwr/X	0	6,624	6,845	6,845	6,182	6,845	3,303	0	0	0	0	0	0	0	36,644
RVSD To BPA XchgNrg	0	11,520	11,904	11,904	10,752	11,904	5,744	0	0	0	0	0	0	0	63,728
RVSD To BPA XchgNrg	4,321	4,176	4,315	4,315	3,898	4,315	2,082	0	0	0	0	0	0	0	27,422
SPP To BPA PwrS	14,805	14,400	14,760	15,480	12,960	14,040	11,325	12,600	24,600	22,800	25,800	11,400	12,000	24,000	230,970
Federal System	101,025	125,569	149,451	145,300	112,178	112,215	53,911	44,037	43,381	49,154	87,422	36,829	38,991	88,211	1,187,674

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2003 - 2004 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-8: Renewable Resources
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-10: Large Thermal
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-10: Large Thermal
PNW Loads and Resources Study
2003 - 2004 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

**Table A-10: Large Thermal
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

Light Load Hours in MwHr	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	Total
Columbia Generating Station	329,000	320,000	328,000	344,000	288,000	312,000	151,000	152,000	133,161	40,533	344,000	168,000	160,000	320,000	3,389,695
Total Federal System	329,000	320,000	328,000	344,000	288,000	312,000	151,000	152,000	133,161	40,533	344,000	168,000	160,000	320,000	3,389,695

**Table A-10: Large Thermal
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal

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

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
<i>-Rock Island P.H. #2 CER for CSPE-</i>															
CHPD to BPA	89	87	89	90	81	91	0	0	0	0	0	0	0	0	527
PSE to BPA	209	202	209	209	188	213	0	0	0	0	0	0	0	0	1,230
Rock Island P.H. #2: Reg. Totals	298	289	298	298	269	304	0	0	0	0	0	0	0	0	1,757
<i>-Rocky Reach CER for CSPE-</i>															
AVWP to BPA	165	160	165	165	149	168	0	0	0	0	0	0	0	0	970
CHPD to BPA	858	833	859	860	775	876	0	0	0	0	0	0	0	0	5,062
CLKM to BPA	1,305	1,267	1,306	1,307	1,178	1,332	0	0	0	0	0	0	0	0	7,695
DOPD to BPA	157	153	157	157	142	160	0	0	0	0	0	0	0	0	927
PGE to BPA	681	661	681	682	615	695	0	0	0	0	0	0	0	0	4,015
PPL to BPA	301	292	301	301	272	307	0	0	0	0	0	0	0	0	1,773
PSE to BPA	2,207	2,142	2,209	2,211	1,993	2,253	0	0	0	0	0	0	0	0	13,015
Rocky Reach: Regional Totals	5,674	5,507	5,678	5,684	5,123	5,791	0	0	0	0	0	0	0	0	33,457
<i>-Wells CER for CSPE-</i>															
AVWP to BPA	131	127	131	131	118	134	0	0	0	0	0	0	0	0	774
DOPD to BPA	982	953	983	984	887	1,003	0	0	0	0	0	0	0	0	5,792
OKPD to BPA	284	275	284	284	256	290	0	0	0	0	0	0	0	0	1,673
PGE to BPA	748	726	749	750	676	764	0	0	0	0	0	0	0	0	4,412
PPL to BPA	255	248	256	256	231	261	0	0	0	0	0	0	0	0	1,506
PSE to BPA	1,145	1,112	1,146	1,147	1,034	1,169	0	0	0	0	0	0	0	0	6,754
Wells: Regional Totals	3,546	3,442	3,549	3,553	3,202	3,620	0	0	0	0	0	0	0	0	20,911
<i>-Total CER For CSPE-</i>															
Federal System	51,065	49,559	51,104	51,157	46,110	52,122	0	0	0	0	0	0	0	0	301,117
Public Agencies	5,050	4,901	5,054	5,059	4,560	5,154	0	0	0	0	0	0	0	0	29,777
Investor-Owned Utilities	8,539	8,287	8,546	8,555	7,711	8,716	0	0	0	0	0	0	0	0	50,353
Other Entities	1,305	1,267	1,306	1,307	1,178	1,332	0	0	0	0	0	0	0	0	7,695
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For CSPE	65,959	64,014	66,009	66,078	59,559	67,324	0	0	0	0	0	0	0	0	388,943

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-12: Canadian Entitlement Return for CSPE
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-13: Columbia Storage Power Exchange Purchase (CSPE)
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

5/19/2003

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2002 - 2003 Fiscal Year

5/19/2003

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

5/19/2003

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2004 - 2005 Fiscal Year

5/19/2003

2003 Safety Net CRAC Final Proposal

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

Table A-14: Supplemental & Entitlement Capacity
PNW Loads and Resources Study
2005 - 2006 Fiscal Year

5/19/2003

2003 Safety Net CRAC Final Proposal

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

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

<i>Light Load Hours in MwHr</i>	<i>2003 Safety Net CRAC Final Proposal</i>														<i>Total</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>-BPA Canada-</i>															
BPA to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Priest Rapids CER for Canada-</i>															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priest Rapids: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Wanapum CER for Canada-</i>															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final Proposal															
Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Rock Island P.H. #1 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0						
-Rock Island P.H. #2 CER for Canada-															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0						
-Rocky Reach CER for Canada-															
AVWP to BPA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CHPD to BPA	5	0	0	0	1	0	0	0	0	0	0	0	0	0	7
CLKM to BPA	8	0	0	0	2	0	0	0	0	0	0	0	0	0	10
DOPD to BPA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PGE to BPA	4	0	0	0	1	0	0	0	0	0	0	0	0	0	5
PPL to BPA	2	0	0	0	1	0	0	0	0	0	0	0	0	0	2
PSE to BPA	13	0	0	0	4	0	0	0	0	0	0	0	0	0	17
Rocky Reach: Regional Totals	34	0	0	0	10	0	0	0	0	0	0	0	0	0	43
-Wells CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wells: Regional Totals	0	0	0	0	0	0	0	0	0						
-Total CER For Canada-															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	6	0	0	0	2	0	0	0	0	0	0	0	0	0	8
Investor-Owned Utilities	20	0	0	0	6	0	0	0	0	0	0	0	0	0	25
Other Entities	8	0	0	0	2	0	0	0	0	0	0	0	0	0	10
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	34	0	0	0	10	0	0	0	0	0	0	0	0	0	43

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year**

2003 Safety Net CRAC Final Proposal															
Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-BPA Canada-															
BPA to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA: Regional Totals	0	0	0	0	0	0	0	0	0						
-Priest Rapids CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	5	1	0	2	0	0	1	0	10
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	2	0	0	1	0	0	0	0	4
PPL to BPA	0	0	0	0	0	0	2	0	0	1	0	0	0	0	4
PSE to BPA	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
SCL to BPA	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
TPU to BPA	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
Priest Rapids: Reg. Totals	0	0	0	0	0	0	14	3	0	6	0	0	3	0	27
-Wanapum CER for Canada-															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0						

Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2003 - 2004 Fiscal Year

2003 Safety Net CRAC Final Proposal															
Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
<i>Rock Island P.H. #1 CER for Canada-</i>															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0						
<i>-Rock Island P.H. #2 CER for Canada-</i>															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0						
<i>Rocky Reach CER for Canada-</i>															
AVWP to BPA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
CHPD to BPA	1	0	0	0	0	0	2	2	0	3	0	0	0	0	8
CLKM to BPA	1	0	0	0	0	0	3	3	0	5	0	0	1	0	13
DOPD to BPA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
PGE to BPA	1	0	0	0	0	0	2	1	0	3	0	0	0	0	7
PPL to BPA	0	0	0	0	0	0	1	1	0	1	0	0	0	0	3
PSE to BPA	2	0	0	0	0	0	5	4	0	9	0	0	1	0	22
Rocky Reach: Regional Totals	5	0	0	0	0	0	14	11	0	22	0	0	3	0	56
<i>-Wells CER for Canada-</i>															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wells: Regional Totals	0	0	0	0	0	0	0	0	0						
<i>-Total CER For Canada-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	1	0	0	0	0	0	11	4	0	8	0	0	2	0	26
Investor-Owned Utilities	3	0	0	0	0	0	14	8	0	16	0	0	3	0	44
Other Entities	1	0	0	0	0	0	3	3	0	5	0	0	1	0	13
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	5	0	0	0	0	0	28	14	0	29	0	0	6	0	83

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

<i>Light Load Hours in MwHr</i>	<i>2003 Safety Net CRAC Final Proposal</i>													<i>Total</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>-BPA Canada-</i>															
BPA to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Priest Rapids CER for Canada-</i>															
AVWP to BPA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
PPL to BPA	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
PSE to BPA	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
SCL to BPA	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
TPU to BPA	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Priest Rapids: Reg. Totals	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
<i>-Wanapum CER for Canada-</i>															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

<i>Light Load Hours in MwHr</i>	<i>2003 Safety Net CRAC Final Proposal</i>													<i>Total</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>-Rock Island P.H. #1 CER for Canada-</i>															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #1: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rock Island P.H. #2 CER for Canada-</i>															
CHPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Island P.H. #2: Reg. Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Rocky Reach CER for Canada-</i>															
AVWP to BPA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
CHPD to BPA	0	0	0	0	6	1	0	0	0	0	0	0	0	0	7
CLKM to BPA	0	0	0	0	9	2	0	0	0	0	0	0	0	0	11
DOPD to BPA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
PGE to BPA	0	0	0	0	5	1	0	0	0	0	0	0	0	0	6
PPL to BPA	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
PSE to BPA	0	0	0	0	15	4	0	0	0	0	0	0	0	0	19
Rocky Reach: Regional Totals	0	0	0	0	38	10	0	0	0	0	0	0	0	0	48
<i>-Wells CER for Canada-</i>															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wells: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total CER For Canada-</i>															
Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Agencies	0	0	0	0	7	16	0	0	0	0	0	0	0	0	23
Investor-Owned Utilities	0	0	0	0	23	16	0	0	0	0	0	0	0	0	38
Other Entities	0	0	0	0	9	2	0	0	0	0	0	0	0	0	11
Non-NW Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CER For Canada	0	0	0	0	38	34	0	0	0	0	0	0	0	0	72

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

<i>Light Load Hours in MwHr</i>	<i>2003 Safety Net CRAC Final Proposal</i>														<i>Total</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>-BPA Canada-</i>															
BPA to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Priest Rapids CER for Canada-</i>															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	7	0	0	32	0	16	19	0	74
KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priest Rapids: Reg. Totals	0	0	0	0	0	0	7	0	0	32	0	16	19	0	74
<i>-Wanapum CER for Canada-</i>															
AVWP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWEB to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FGRV to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GCPD to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCMN to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTFR to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wanapum: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table A-15: Canadian Entitlement Return for Canada
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

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

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2002 - 2003 Fiscal Year**

2003 Safety Net CRAC Final Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Intra-Regional Transfers-															
BPA To AVWP WP3Set	0	45,770	48,549	47,045	41,716	23,238	10,875	10,933	0	0	0	0	0	0	228,125
BPA To EMPD ChPS	448	433	448	448	405	448	216	216	448	433	448	217	231	433	5,273
BPA To Other Entities	459,331	417,478	469,696	348,620	251,328	483,588	153,190	154,204	263,548	241,120	312,748	148,704	171,816	225,520	4,100,890
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL CapS	60,742	91,657	63,828	80,073	72,767	63,419	29,794	29,991	43,806	50,324	45,158	21,938	23,093	56,451	733,041
BPA To PPL PwrS	33,867	51,456	74,063	61,926	41,760	38,343	13,530	13,619	33	5,824	11,086	1,961	2,270	13,472	363,211
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	33,333	16,667	0	0	0	50,000
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	27,778	27,554	0	0	0	55,332
BPA To PSE WP3Set	0	45,770	48,549	47,045	41,716	23,238	10,875	10,933	0	0	0	0	0	0	228,125
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCPD3 To BPA PwrS(a)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	702,059	675,520	743,728	676,008	642,096	670,704	192,978	133,456	238,784	344,960	501,184	224,656	260,128	464,960	6,471,221
PPL To BPA PkRepl	205,884	220,666	190,574	230,863	179,901	171,526	90,803	91,037	182,992	182,164	120,025	66,984	71,355	161,805	2,166,579
PPL To BPA S/N/X	0	0	0	0	0	50,000	0	0	0	0	0	0	0	0	50,000
PPL To BPA S/Pwr/X	17,528	18,518	0	0	0	0	0	0	0	0	0	0	0	18,518	54,565
SUB To BPA PwrS	7,512	7,680	8,256	7,872	6,912	7,872	3,624	3,648	7,872	7,680	7,872	0	0	0	76,800
TPU To BPA PwrX	0	0	0	11,480	10,080	11,480	5,285	5,320	11,480	11,200	11,480	5,320	6,160	11,200	100,485
-Total Contracts Out-															
Federal System	554,388	652,564	705,133	585,157	449,691	632,273	218,480	219,896	307,835	358,813	413,661	172,819	197,410	295,876	5,763,996
Total Contracts Out	554,388	652,564	705,133	585,157	449,691	632,273	218,480	219,896	307,835	358,813	413,661	172,819	197,410	295,876	5,763,996
-Total Contracts In-															
Federal System	932,983	922,384	942,558	926,223	838,989	911,582	292,690	233,461	441,128	546,004	640,561	296,960	337,643	656,483	8,919,650
Total Contracts In	932,983	922,384	942,558	926,223	838,989	911,582	292,690	233,461	441,128	546,004	640,561	296,960	337,643	656,483	8,919,650

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2003 - 2004 Fiscal Year**

2003 Safety Net CRAC Final Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
<i>Intra-Regional Transfers-</i>															
BPA To AVWP WP3Set	0	47,274	47,045	47,045	44,495	22,495	10,875	10,933	0	0	0	0	0	0	230,161
BPA To Other Entities	79,346	85,176	83,148	17,548	16,692	16,692	529	532	1,204	1,064	17,548	8,988	8,560	17,120	354,146
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL CapS	49,251	74,317	51,752	64,924	59,000	51,420	24,157	24,317	35,518	40,803	34,621	16,819	17,704	43,279	587,884
BPA To PPL PwrS	33,867	54,029	70,618	61,926	45,240	36,473	13,530	13,619	34	5,533	11,086	2,167	2,064	13,472	363,659
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	26,389	27,554	0	0	0	53,943
BPA To PSE WP3Set	0	45,770	48,549	47,045	43,205	23,238	10,875	10,933	0	0	0	0	0	0	229,614
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	454,789	488,208	476,584	443,784	422,136	422,136	166,553	106,856	207,432	183,312	443,784	227,304	216,480	432,960	4,692,318
PPL To BPA PkRepl	166,933	178,918	154,519	187,186	145,865	139,075	73,624	73,814	148,372	147,700	92,019	51,355	54,705	124,050	1,738,135
PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL To BPA S/Pwr/X	17,528	19,444	0	0	0	0	0	0	0	0	0	0	0	18,518	55,491
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	11,480	10,920	10,920	5,285	5,320	12,040	10,640	11,480	5,880	5,600	11,200	100,765
<i>-Total Contracts Out-</i>															
Federal System	162,463	306,565	301,112	238,488	208,633	150,318	59,966	60,334	36,757	73,789	90,809	27,974	28,328	73,871	1,819,407
Total Contracts Out	162,463	306,565	301,112	238,488	208,633	150,318	59,966	60,334	36,757	73,789	90,809	27,974	28,328	73,871	1,819,407
<i>-Total Contracts In-</i>															
Federal System	639,250	686,570	631,103	642,450	578,921	572,131	245,462	185,990	367,844	341,652	547,283	284,539	276,785	586,729	6,586,709
Total Contracts In	639,250	686,570	631,103	642,450	578,921	572,131	245,462	185,990	367,844	341,652	547,283	284,539	276,785	586,729	6,586,709

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2004 - 2005 Fiscal Year**

2003 Safety Net CRAC Final Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
<i>Intra-Regional Transfers-</i>															
BPA To AVWP WP3Set	0	45,770	47,045	48,549	41,716	22,495	10,875	10,933	0	0	0	0	0	0	227,381
BPA To Other Entities	17,602	17,120	17,548	18,404	15,408	16,692	529	532	1,204	1,064	18,404	8,104	8,560	17,120	158,290
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL CapS	37,759	56,976	39,677	49,775	45,234	39,422	18,521	18,643	27,231	31,283	34,621	16,819	17,704	43,279	476,943
BPA To PPL PwrS	35,598	51,456	70,618	64,947	41,760	36,473	13,530	13,619	34	5,533	11,627	1,961	2,064	13,472	362,692
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	26,389	28,898	0	0	0	55,287
BPA To PSE WP3Set	0	45,770	48,549	47,045	41,716	23,238	10,875	10,933	0	0	0	0	0	0	228,125
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	445,137	432,960	443,784	465,432	389,664	422,936	166,553	106,856	206,632	184,112	464,632	205,656	217,280	432,960	4,584,594
PPL To BPA PkRepl	127,982	137,171	118,465	143,510	111,830	106,624	56,445	56,590	113,752	113,237	92,019	51,355	54,705	124,050	1,407,735
PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL To BPA S/Pwr/X	18,424	18,518	0	0	0	0	0	0	0	0	0	0	0	18,518	55,461
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	12,040	10,080	10,920	5,285	5,320	12,040	10,640	12,040	5,320	5,600	11,200	100,485
<i>-Total Contracts Out-</i>															
Federal System	90,958	217,091	223,437	228,720	185,833	138,320	54,330	54,660	28,469	64,268	93,550	26,884	28,328	73,871	1,508,719
Total Contracts Out	90,958	217,091	223,437	228,720	185,833	138,320	54,330	54,660	28,469	64,268	93,550	26,884	28,328	73,871	1,508,719
<i>-Total Contracts In-</i>															
Federal System	591,543	588,649	562,249	620,982	511,574	540,480	228,283	168,766	332,424	307,989	568,691	262,331	277,585	586,729	6,148,275
Total Contracts In	591,543	588,649	562,249	620,982	511,574	540,480	228,283	168,766	332,424	307,989	568,691	262,331	277,585	586,729	6,148,275

**Table A-16: Intra-Regional Transfers
PNW Loads and Resources Study
2005 - 2006 Fiscal Year**

2003 Safety Net CRAC Final Proposal

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
<i>Intra-Regional Transfers-</i>															
BPA To AVWP WP3Set	0	45,770	47,045	48,549	41,716	22,495	10,875	11,676	0	0	0	0	0	0	228,125
BPA To Other Entities	17,602	17,120	17,548	18,404	15,408	16,692	529	588	1,148	1,064	18,404	8,132	8,560	17,120	158,318
BPA To PGE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL CapS	37,759	56,976	39,677	49,775	45,234	39,422	18,521	18,643	27,231	31,283	34,621	16,819	17,704	43,279	476,943
BPA To PPL PwrS	35,598	51,456	70,618	64,947	41,760	36,473	13,530	15,053	33	5,533	11,627	1,961	2,064	13,472	364,124
BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	26,389	28,898	0	0	0	55,287
BPA To PSE WP3Set	0	45,770	48,549	47,045	41,716	23,238	10,875	10,933	0	0	0	0	0	0	228,125
BPA To TPU PwrX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities To BPA	444,337	433,760	443,784	327,032	275,664	297,336	106,153	117,304	198,584	183,312	327,032	145,656	152,480	304,960	3,757,394
PPL To BPA PkRepl	127,982	137,171	118,465	143,510	111,830	106,624	56,445	56,590	113,752	113,237	92,019	51,355	54,705	124,050	1,407,735
PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PPL To BPA S/Pwr/X	18,424	18,518	0	0	0	0	0	0	0	0	0	0	0	18,518	55,461
SUB To BPA PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TPU To BPA PwrX	0	0	0	12,040	10,080	10,920	5,285	5,880	11,480	10,640	12,040	5,320	5,600	11,200	100,485
<i>-Total Contracts Out-</i>															
Federal System	90,958	217,091	223,437	228,720	185,833	138,320	54,330	56,892	28,411	64,268	93,550	26,912	28,328	73,871	1,510,922
Total Contracts Out	90,958	217,091	223,437	228,720	185,833	138,320	54,330	56,892	28,411	64,268	93,550	26,912	28,328	73,871	1,510,922
<i>-Total Contracts In-</i>															
Federal System	590,743	589,449	562,249	482,582	397,574	414,880	167,883	179,774	323,816	307,189	431,091	202,331	212,785	458,729	5,321,075
Total Contracts In	590,743	589,449	562,249	482,582	397,574	414,880	167,883	179,774	323,816	307,189	431,091	202,331	212,785	458,729	5,321,075

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

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Federal Entities-															
Federal Entities	27,987	33,089	39,275	39,358	33,768	35,238	14,573	14,412	29,028	30,087	29,534	14,420	15,245	25,966	381,979
Total Federal Entities	27,987	33,089	39,275	39,358	33,768	35,238	14,573	14,412	29,028	30,087	29,534	14,420	15,245	25,966	381,979
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	30,103	7,832	5,227	4,822	3,722	11,688	32,088	32,279	86,755	89,566	104,708	41,675	47,230	60,178	557,872
Total U.S. Bureau of Reclamation	30,103	7,832	5,227	4,822	3,722	11,688	32,088	32,279	86,755	89,566	104,708	41,675	47,230	60,178	557,872
-Direct Service Industry-															
Direct Service Industry	10,642	10,880	11,696	11,152	9,792	11,152	5,134	5,168	11,152	10,880	11,152	5,168	5,984	10,880	130,832
Total Direct Service Industry	10,642	10,880	11,696	11,152	9,792	11,152	5,134	5,168	11,152	10,880	11,152	5,168	5,984	10,880	130,832
-Generating Public Entities-															
Generating Public Entities	560,446	645,277	753,569	756,525	678,197	704,273	336,772	336,772	627,949	584,226	510,698	260,418	277,779	525,242	7,558,143
Total Generating Public Entities	560,446	645,277	753,569	756,525	678,197	704,273	336,772	336,772	627,949	584,226	510,698	260,418	277,779	525,242	7,558,143
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	249,637	275,154	272,329	244,110	224,724	271,548	126,505	120,021	235,005	257,942	305,990	170,921	147,212	202,446	3,103,544
Total Generating Public Entities (Slice)	249,637	275,154	272,329	244,110	224,724	271,548	126,505	120,021	235,005	257,942	305,990	170,921	147,212	202,446	3,103,544
-Non-Generating Public Entities-															
Non-Generating Public Entities	666,769	742,168	877,338	895,963	777,564	767,003	348,091	348,196	689,603	697,042	712,256	347,324	371,485	628,838	8,869,640
Total Non-Generating Public Entities	666,769	742,168	877,338	895,963	777,564	767,003	348,091	348,196	689,603	697,042	712,256	347,324	371,485	628,838	8,869,640
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	149,894	165,216	163,520	146,576	134,936	163,051	75,960	72,066	141,109	154,881	183,732	102,629	88,393	121,559	1,863,523
Total Non-Generating Public Entities (Slice)	149,894	165,216	163,520	146,576	134,936	163,051	75,960	72,066	141,109	154,881	183,732	102,629	88,393	121,559	1,863,523
-Investor-Owned Entities-															
Investor-Owned Entities	119,566	122,240	131,408	125,296	110,016	125,296	57,682	58,064	125,296	122,240	125,296	58,064	67,232	122,240	1,469,936
Total Investor-Owned Entities	119,566	122,240	131,408	125,296	110,016	125,296	57,682	58,064	125,296	122,240	125,296	58,064	67,232	122,240	1,469,936
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	27,987	33,089	39,275	39,358	33,768	35,238	14,573	14,412	29,028	30,087	29,534	14,420	15,245	25,966	381,979
U.S. Bureau of Reclamation	30,103	7,832	5,227	4,822	3,722	11,688	32,088	32,279	86,755	89,566	104,708	41,675	47,230	60,178	557,872
Direct Service Industry	10,642	10,880	11,696	11,152	9,792	11,152	5,134	5,168	11,152	10,880	11,152	5,168	5,984	10,880	130,832
Generating Public Entities	810,083	920,431	1,025,898	1,000,635	902,921	975,821	463,277	456,792	862,954	842,168	816,688	431,339	424,991	727,688	10,661,687
Non-Generating Public Entities	816,664	907,384	1,040,858	1,042,538	912,500	930,054	424,051	420,263	830,712	851,923	895,988	449,953	459,878	750,397	10,733,163
Investor-Owned Entities	119,566	122,240	131,408	125,296	110,016	125,296	57,682	58,064	125,296	122,240	125,296	58,064	67,232	122,240	1,469,936
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	1,815,045	2,001,855	2,254,363	2,223,801	1,972,719	2,089,249	996,804	986,978	1,945,897	1,946,864	1,983,366	1,000,618	1,020,561	1,697,349	23,935,469

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

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	29,447	35,378	40,141	41,003	36,410	36,054	15,310	15,142	31,115	30,935	31,074	15,001	16,235	27,419	400,666
Total Federal Entities	29,447	35,378	40,141	41,003	36,410	36,054	15,310	15,142	31,115	30,935	31,074	15,001	16,235	27,419	400,666
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	30,103	8,223	4,984	4,822	4,019	11,307	32,088	32,279	89,941	86,211	104,708	44,879	44,026	60,178	557,768
Total U.S. Bureau of Reclamation	30,103	8,223	4,984	4,822	4,019	11,307	32,088	32,279	89,941	86,211	104,708	44,879	44,026	60,178	557,768
-Direct Service Industry-															
Direct Service Industry	10,642	11,424	11,152	11,152	10,608	10,608	5,134	5,168	11,696	10,336	11,152	5,712	5,440	10,880	131,104
Total Direct Service Industry	10,642	11,424	11,152	11,152	10,608	10,608	5,134	5,168	11,696	10,336	11,152	5,712	5,440	10,880	131,104
-Generating Public Entities-															
Generating Public Entities	587,019	686,090	782,054	794,900	734,758	723,920	309,258	309,258	625,862	515,719	530,745	268,702	286,616	543,872	7,698,773
Total Generating Public Entities	587,019	686,090	782,054	794,900	734,758	723,920	309,258	309,258	625,862	515,719	530,745	268,702	286,616	543,872	7,698,773
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	245,585	273,743	266,643	240,302	224,384	265,344	127,874	121,529	272,386	292,179	308,179	173,392	145,476	202,879	3,159,894
Total Generating Public Entities (Slice)	245,585	273,743	266,643	240,302	224,384	265,344	127,874	121,529	272,386	292,179	308,179	173,392	145,476	202,879	3,159,894
-Non-Generating Public Entities-															
Non-Generating Public Entities	705,010	794,520	911,244	940,714	839,902	795,611	369,551	369,661	744,209	731,226	757,514	371,295	393,918	672,795	9,397,169
Total Non-Generating Public Entities	705,010	794,520	911,244	940,714	839,902	795,611	369,551	369,661	744,209	731,226	757,514	371,295	393,918	672,795	9,397,169
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	147,461	164,369	160,106	144,289	134,731	159,326	76,782	72,972	163,554	175,439	185,046	104,113	87,351	121,819	1,897,358
Total Non-Generating Public Entities (Slice)	147,461	164,369	160,106	144,289	134,731	159,326	76,782	72,972	163,554	175,439	185,046	104,113	87,351	121,819	1,897,358
-Investor-Owned Entities-															
Investor-Owned Entities	119,566	128,352	125,296	125,296	119,184	119,184	57,682	58,064	131,408	116,128	125,296	64,176	61,120	122,240	1,472,992
Total Investor-Owned Entities	119,566	128,352	125,296	125,296	119,184	119,184	57,682	58,064	131,408	116,128	125,296	64,176	61,120	122,240	1,472,992
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Power Sales Contracts-															
Federal System	29,447	35,378	40,141	41,003	36,410	36,054	15,310	15,142	31,115	30,935	31,074	15,001	16,235	27,419	400,666
U.S. Bureau of Reclamation	30,103	8,223	4,984	4,822	4,019	11,307	32,088	32,279	89,941	86,211	104,708	44,879	44,026	60,178	557,768
Direct Service Industry	10,642	11,424	11,152	11,152	10,608	10,608	5,134	5,168	11,696	10,336	11,152	5,712	5,440	10,880	131,104
Generating Public Entities	832,604	959,833	1,048,697	1,035,202	959,141	989,264	437,132	430,788	898,247	807,898	838,924	442,094	432,091	746,752	10,858,668
Non-Generating Public Entities	852,471	958,889	1,071,350	1,085,003	974,633	954,936	446,332	442,633	907,763	906,665	942,560	475,408	481,269	794,614	11,294,527
Investor-Owned Entities	119,566	128,352	125,296	125,296	119,184	119,184	57,682	58,064	131,408	116,128	125,296	64,176	61,120	122,240	1,472,992
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	1,874,833	2,102,099	2,301,621	2,302,478	2,103,995	2,121,353	993,678	984,074	2,070,171	1,958,173	2,053,715	1,047,271	1,040,181	1,762,083	24,715,724

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

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	30,159	34,759	40,254	41,911	35,474	36,141	15,354	15,180	31,200	31,021	31,754	14,871	15,905	27,498	401,480
Total Federal Entities	30,159	34,759	40,254	41,911	35,474	36,141	15,354	15,180	31,200	31,021	31,754	14,871	15,905	27,498	401,480
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	32,279	89,941	86,211	108,335	41,675	44,026	60,178	558,925
Total U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	32,279	89,941	86,211	108,335	41,675	44,026	60,178	558,925
-Direct Service Industry-															
Direct Service Industry	27,636	26,880	27,552	28,896	24,192	26,208	12,684	12,768	28,896	25,536	28,896	12,312	12,960	25,920	321,336
Total Direct Service Industry	27,636	26,880	27,552	28,896	24,192	26,208	12,684	12,768	28,896	25,536	28,896	12,312	12,960	25,920	321,336
-Generating Public Entities-															
Generating Public Entities	598,506	680,243	785,835	809,666	716,807	728,011	311,073	311,073	629,383	519,012	541,456	265,219	282,900	543,786	7,722,968
Total Generating Public Entities	598,506	680,243	785,835	809,666	716,807	728,011	311,073	311,073	629,383	519,012	541,456	265,219	282,900	543,786	7,722,968
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	250,720	274,152	269,579	245,697	217,237	267,933	129,127	122,212	244,950	258,310	313,303	172,460	146,576	205,523	3,117,776
Total Generating Public Entities (Slice)	250,720	274,152	269,579	245,697	217,237	267,933	129,127	122,212	244,950	258,310	313,303	172,460	146,576	205,523	3,117,776
-Non-Generating Public Entities-															
Non-Generating Public Entities	726,273	796,655	925,705	967,521	836,331	807,955	375,281	375,391	755,494	742,222	779,344	370,904	395,394	683,139	9,537,609
Total Non-Generating Public Entities	726,273	796,655	925,705	967,521	836,331	807,955	375,281	375,391	755,494	742,222	779,344	370,904	395,394	683,139	9,537,609
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	150,545	164,614	161,868	147,529	130,440	160,880	77,534	73,382	147,080	155,102	188,123	103,554	88,011	123,406	1,872,068
Total Non-Generating Public Entities (Slice)	150,545	164,614	161,868	147,529	130,440	160,880	77,534	73,382	147,080	155,102	188,123	103,554	88,011	123,406	1,872,068
-Investor-Owned Entities-															
Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	58,064	131,408	116,128	131,408	58,064	61,120	122,240	1,469,936
Total Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	58,064	131,408	116,128	131,408	58,064	61,120	122,240	1,469,936
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
-Power Sales Contracts-															
Federal System	30,159	34,759	40,254	41,911	35,474	36,141	15,354	15,180	31,200	31,021	31,754	14,871	15,905	27,498	401,480
U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	32,279	89,941	86,211	108,335	41,675	44,026	60,178	558,925
Direct Service Industry	27,636	26,880	27,552	28,896	24,192	26,208	12,684	12,768	28,896	25,536	28,896	12,312	12,960	25,920	321,336
Generating Public Entities	849,227	954,394	1,055,414	1,055,363	934,044	995,943	440,199	433,284	874,333	777,322	854,759	437,679	429,476	749,309	10,840,745
Non-Generating Public Entities	876,818	961,269	1,087,573	1,115,050	966,771	968,835	452,815	448,773	902,574	897,324	967,466	474,458	483,405	806,546	11,409,677
Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	58,064	131,408	116,128	131,408	58,064	61,120	122,240	1,469,936
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	1,940,809	2,107,375	2,341,073	2,377,684	2,074,218	2,157,618	1,010,822	1,000,349	2,058,352	1,933,542	2,122,617	1,039,058	1,046,892	1,791,691	25,002,099

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

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Total
-Federal Entities-															
Federal Entities	30,246	34,869	40,366	42,029	35,592	36,229	15,819	15,460	30,659	31,107	31,867	14,934	15,972	27,577	402,727
Total Federal Entities	30,246	34,869	40,366	42,029	35,592	36,229	15,819	15,460	30,659	31,107	31,867	14,934	15,972	27,577	402,727
-U.S. Bureau of Reclamation-															
U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	35,086	86,755	86,211	108,335	41,675	44,026	60,178	558,545
Total U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	35,086	86,755	86,211	108,335	41,675	44,026	60,178	558,545
-Direct Service Industry-															
Direct Service Industry	45,402	44,160	45,264	47,472	39,744	43,056	20,838	23,184	45,264	41,952	47,472	20,976	22,080	44,160	531,024
Total Direct Service Industry	45,402	44,160	45,264	47,472	39,744	43,056	20,838	23,184	45,264	41,952	47,472	20,976	22,080	44,160	531,024
-Generating Public Entities-															
Generating Public Entities	600,024	681,483	786,802	809,943	717,670	728,984	307,635	307,635	608,079	504,371	526,194	259,311	276,599	531,549	7,646,279
Total Generating Public Entities	600,024	681,483	786,802	809,943	717,670	728,984	307,635	307,635	608,079	504,371	526,194	259,311	276,599	531,549	7,646,279
-Generating Public Entities (Slice)-															
Generating Public Entities (Slice)	251,266	274,522	269,678	245,501	217,120	267,577	128,596	123,863	270,036	294,130	312,822	173,014	147,085	206,566	3,181,775
Total Generating Public Entities (Slice)	251,266	274,522	269,678	245,501	217,120	267,577	128,596	123,863	270,036	294,130	312,822	173,014	147,085	206,566	3,181,775
-Non-Generating Public Entities-															
Non-Generating Public Entities	737,377	808,988	939,889	984,134	850,865	822,301	386,384	387,917	758,750	755,107	792,724	377,387	402,309	695,406	9,699,538
Total Non-Generating Public Entities	737,377	808,988	939,889	984,134	850,865	822,301	386,384	387,917	758,750	755,107	792,724	377,387	402,309	695,406	9,699,538
-Non-Generating Public Entities (Slice)-															
Non-Generating Public Entities (Slice)	150,873	164,837	161,928	147,411	130,370	160,666	77,216	74,373	162,143	176,610	187,834	103,886	88,317	124,032	1,910,496
Total Non-Generating Public Entities (Slice)	150,873	164,837	161,928	147,411	130,370	160,666	77,216	74,373	162,143	176,610	187,834	103,886	88,317	124,032	1,910,496
-Investor-Owned Entities-															
Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	64,176	125,296	116,128	131,408	58,064	61,120	122,240	1,469,936
Total Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	64,176	125,296	116,128	131,408	58,064	61,120	122,240	1,469,936
-Other Entities-															
Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Entities	0														
-Power Sales Contracts-															
Federal System	30,246	34,869	40,366	42,029	35,592	36,229	15,819	15,460	30,659	31,107	31,867	14,934	15,972	27,577	402,727
U.S. Bureau of Reclamation	31,292	7,832	4,984	5,057	3,722	11,307	32,088	35,086	86,755	86,211	108,335	41,675	44,026	60,178	558,545
Direct Service Industry	45,402	44,160	45,264	47,472	39,744	43,056	20,838	23,184	45,264	41,952	47,472	20,976	22,080	44,160	531,024
Generating Public Entities	851,290	956,006	1,056,480	1,055,444	934,790	996,561	436,231	431,497	878,115	798,500	839,016	432,325	423,684	738,115	10,828,054
Non-Generating Public Entities	888,250	973,825	1,101,817	1,131,545	981,235	982,967	463,600	462,290	920,893	931,717	980,558	481,273	490,626	819,438	11,610,034
Investor-Owned Entities	125,678	122,240	125,296	131,408	110,016	119,184	57,682	64,176	125,296	116,128	131,408	58,064	61,120	122,240	1,469,936
Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Sales Contracts	1,972,158	2,138,932	2,374,207	2,412,955	2,105,098	2,189,304	1,026,257	1,031,693	2,086,982	2,005,615	2,138,656	1,049,246	1,057,508	1,811,708	25,400,320

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

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	313	320	344	328	288	328	151	152	328	320	328	152	176	320	3,848
Dworshak Small Hydropower	823	842	905	863	757	863	397	400	863	842	863	400	463	842	10,120
Elwha Hydro	1,125	2,826	3,697	3,709	2,593	2,808	2,508	2,508	2,815	2,566	1,790	1,222	1,222	744	32,131
Glines Hydro	2,109	4,246	5,288	4,767	3,983	4,415	3,766	3,766	9,288	4,755	3,529	2,404	2,404	1,411	56,132
Total NUG Hydro	4,370	8,234	10,234	9,666	7,620	8,414	6,822	6,826	13,293	8,483	6,510	4,178	4,265	3,317	102,232
-NUG: Renewable-															
Ashland Solar Project	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
Condon Wind Project	3,506	4,256	4,713	4,231	3,600	3,936	2,099	2,113	4,067	4,672	3,477	1,566	1,813	3,232	47,280
Foote Creek 1	1,753	2,656	3,474	3,476	2,764	2,361	876	881	1,509	1,312	1,082	502	581	1,216	24,442
Foote Creek 2	219	320	447	426	346	295	106	106	164	160	131	61	70	160	3,012
Foote Creek 4	2,035	3,104	4,059	4,034	3,254	2,755	1,012	1,018	1,771	1,536	1,246	593	686	1,408	28,513
Klondike Phase 1	2,535	2,816	2,683	2,722	2,246	2,558	1,299	1,307	2,886	2,912	2,624	1,201	1,390	1,984	31,165
Stateline Wind Project	9,476	10,493	10,096	10,341	8,478	9,656	4,939	4,972	10,878	10,990	9,924	4,530	5,245	7,560	117,579
Total NUG: Renewable	19,524	23,645	25,473	25,232	20,690	21,563	10,330	10,399	21,277	21,584	18,486	8,452	9,787	15,561	252,003
-Total Non-Utility Generating Resources-															
Federal Entities	23,894	31,878	35,707	34,899	28,310	29,977	17,152	17,225	34,571	30,066	24,997	12,630	14,052	18,878	354,235
Total Federal Entities	23,894	31,878	35,707	34,899	28,310	29,977	17,152	17,225	34,571	30,066	24,997	12,630	14,052	18,878	354,235

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

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	313	336	328	328	312	312	151	152	344	304	328	168	160	320	3,856
Dworshak Small Hydropower	823	884	863	863	821	821	397	400	905	800	863	442	421	842	10,141
Elwha Hydro	1,125	2,826	3,697	3,709	2,593	2,808	2,508	2,508	2,815	2,566	1,790	1,222	1,222	744	32,131
Glines Hydro	2,109	4,246	5,288	4,767	3,983	4,415	3,766	3,766	9,288	4,755	3,529	2,404	2,404	1,411	56,132
Total NUG Hydro	4,370	8,292	10,176	9,666	7,708	8,356	6,822	6,826	13,351	8,424	6,510	4,236	4,207	3,317	102,261
-NUG: Renewable-															
Ashland Solar Project	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
Condon Wind Project	3,506	4,469	4,494	4,231	3,900	3,744	2,099	2,113	4,266	4,438	3,477	1,730	1,648	3,232	47,346
Foote Creek 1	1,753	2,788	3,312	3,476	2,995	2,246	876	881	1,582	1,246	1,082	554	528	1,216	24,537
Foote Creek 2	219	336	426	426	374	281	106	106	172	152	131	67	64	160	3,022
Foote Creek 4	2,035	3,259	3,870	4,034	3,526	2,621	1,012	1,018	1,858	1,459	1,246	655	624	1,408	28,625
Klondike Phase 1	2,535	2,957	2,558	2,722	2,434	2,434	1,299	1,307	3,027	2,766	2,624	1,327	1,264	1,984	31,239
Stateline Wind Project	9,584	11,144	9,455	10,158	9,021	9,021	4,851	4,883	11,206	10,255	9,748	4,918	4,684	7,425	116,354
Total NUG: Renewable	19,632	24,953	24,117	25,049	22,250	20,348	10,242	10,310	22,112	20,319	18,310	9,253	8,812	15,426	251,134
-Total Non-Utility Generating Resources-															
Federal Entities	24,003	33,245	34,292	34,715	29,958	28,703	17,065	17,136	35,463	28,743	24,820	13,489	13,019	18,743	353,395
Total Federal Entities	24,003	33,245	34,292	34,715	29,958	28,703	17,065	17,136	35,463	28,743	24,820	13,489	13,019	18,743	353,395

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

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	329	320	328	344	288	312	151	152	344	304	344	152	160	320	3,848
Dworshak Small Hydropower	865	842	863	905	757	821	397	400	905	800	905	400	421	842	10,120
Elwha Hydro	1,125	2,826	3,697	3,709	2,593	2,808	2,508	2,508	2,815	2,566	1,790	0	0	0	28,944
Glines Hydro	2,109	4,246	5,288	4,767	3,983	4,415	3,766	3,766	9,288	4,755	3,529	0	0	0	49,913
Total NUG Hydro	4,428	8,234	10,176	9,724	7,620	8,356	6,822	6,826	13,351	8,424	6,568	552	581	1,162	92,825
-NUG: Renewable-															
Ashland Solar Project	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
Condon Wind Project	3,685	4,256	4,494	4,438	3,600	3,744	2,099	2,113	4,266	4,438	3,646	1,566	1,648	3,232	47,224
Foote Creek 1	1,842	2,656	3,312	3,646	2,764	2,246	876	881	1,582	1,246	1,135	502	528	1,216	24,433
Foote Creek 2	230	320	426	447	346	281	106	106	172	152	138	61	64	160	3,009
Foote Creek 4	2,139	3,104	3,870	4,231	3,254	2,621	1,012	1,018	1,858	1,459	1,307	593	624	1,408	28,498
Fourmile Hill Geothermal	16,417	15,968	16,367	17,166	14,371	15,569	7,535	7,585	17,166	15,170	17,166	7,585	7,984	15,968	192,015
Klondike Phase 1	2,665	2,816	2,558	2,855	2,246	2,434	1,299	1,307	3,027	2,766	2,752	1,201	1,264	1,984	31,175
Stateline Wind Project	9,895	10,424	9,455	10,653	8,327	9,021	4,851	4,883	11,206	10,255	10,223	4,449	4,684	7,425	115,754
Total NUG: Renewable	36,874	39,544	40,484	43,436	34,910	35,916	17,777	17,895	39,277	35,488	36,369	15,956	16,796	31,394	442,119
-Total Non-Utility Generating Resources-															
Federal Entities	41,302	47,778	50,660	53,161	42,531	44,272	24,600	24,721	52,629	43,913	42,937	16,508	17,377	32,556	534,943
Total Federal Entities	41,302	47,778	50,660	53,161	42,531	44,272	24,600	24,721	52,629	43,913	42,937	16,508	17,377	32,556	534,943

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

<i>Light Load Hours in MwHr</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>1-Apr</i>	<i>16-Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>1-Aug</i>	<i>16-Aug</i>	<i>Sep</i>	<i>Total</i>
-Non-Utility Generation: Hydro-															
Clearwater - State of ID DWR	329	320	328	344	288	312	151	168	328	304	344	152	160	320	3,848
Dworshak Small Hydropower	865	842	863	905	757	821	397	442	863	800	905	400	421	842	10,120
Total NUG Hydro	1,194	1,162	1,191	1,249	1,045	1,133	548	610	1,191	1,104	1,249	552	581	1,162	13,968
-NUG: Renewable-															
Ashland Solar Project	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
Condon Wind Project	3,685	4,256	4,494	4,438	3,600	3,744	2,099	2,335	4,067	4,438	3,646	1,566	1,648	3,232	47,248
Foote Creek 1	1,842	2,656	3,312	3,646	2,764	2,246	876	974	1,509	1,246	1,135	502	528	1,216	24,452
Foote Creek 2	230	320	426	447	346	281	106	118	164	152	138	61	64	160	3,012
Foote Creek 4	2,139	3,104	3,870	4,231	3,254	2,621	1,012	1,126	1,771	1,459	1,307	593	624	1,408	28,519
Fourmile Hill Geothermal	16,417	15,968	16,367	17,166	14,371	15,569	7,535	8,383	16,367	15,170	17,166	7,585	7,984	15,968	192,015
Generic Wind (BPA)	8,196	8,635	7,832	8,866	6,930	7,508	4,037	4,492	8,891	8,535	8,508	3,703	3,898	6,179	96,211
Klondike Phase 1 (BPA)	2,665	2,816	2,558	2,855	2,246	2,434	1,299	1,445	2,886	2,766	2,752	1,201	1,264	1,984	31,172
Stateline Wind Project (BPA)	9,895	10,424	9,455	10,653	8,327	9,021	4,851	5,397	10,685	10,255	10,223	4,449	4,684	7,425	115,746
Total NUG: Renewable	45,070	48,179	48,316	52,302	41,840	43,424	21,815	24,271	46,342	44,023	44,877	19,659	20,694	37,573	538,386
-Total Non-Utility Generating Resources-															
Federal Entities	46,264	49,341	49,507	53,551	42,886	44,557	22,363	24,880	47,533	45,127	46,126	20,211	21,275	38,735	552,354
Total Federal Entities	46,264	49,341	49,507	53,551	42,886	44,557	22,363	24,880	47,533	45,127	46,126	20,211	21,275	38,735	552,354

2.8 Regional Hydro including NUG Hydro

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

2.8.1 TOTAL REGIONAL HYDRO (Including NUG hydro)

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

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

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Aug1	Aug16	Sep	Avg
1929	11,897	13,173	13,106	13,822	9,546	11,090	10,443	11,070	12,010	16,262	14,568	16,744	12,791	10,195	12,599
1930	11,641	12,748	12,808	10,862	11,837	11,098	11,134	11,132	11,423	14,793	14,567	13,288	11,753	9,565	12,083
1931	11,619	12,816	12,592	11,162	9,472	10,874	11,389	10,570	11,620	13,910	13,251	14,008	12,145	9,841	11,768
1932	11,288	12,582	12,678	11,394	9,664	13,922	17,436	21,325	21,211	21,196	17,191	13,609	11,215	9,620	14,378
1933	11,866	13,500	15,136	19,223	16,336	11,246	13,305	14,683	18,430	25,424	22,645	16,806	14,923	10,261	16,160
1934	15,117	16,693	23,516	25,737	21,816	18,229	22,439	21,444	20,421	14,412	15,744	16,401	16,353	11,637	18,470
1935	11,650	13,574	14,406	18,647	18,345	10,220	12,177	15,557	17,326	19,138	17,166	12,959	10,642	9,444	14,632
1936	11,671	12,756	12,660	12,033	9,845	11,637	11,085	15,632	23,549	18,446	14,775	15,572	12,875	9,886	13,737
1937	11,622	12,691	12,910	10,936	9,602	10,966	11,180	11,051	11,976	15,219	14,138	14,962	11,962	9,775	12,034
1938	12,208	13,570	13,887	20,015	13,028	15,575	16,079	17,934	22,328	19,753	16,597	14,297	11,233	9,639	15,531
1939	11,971	13,069	13,309	15,597	10,517	12,275	12,553	14,431	19,415	15,283	15,267	13,978	11,595	10,540	13,627
1940	12,100	12,664	13,765	14,080	12,611	16,130	14,182	15,708	16,456	15,734	13,204	15,337	12,105	9,727	13,761
1941	11,730	12,531	14,022	14,679	10,079	11,175	10,126	11,081	12,672	15,148	12,429	13,374	11,396	9,537	12,249
1942	11,468	11,961	17,336	18,930	11,251	10,010	11,554	13,347	16,240	21,153	18,033	13,172	11,506	9,961	14,261
1943	11,678	13,413	14,511	18,556	16,765	16,888	22,756	21,501	22,332	21,690	19,641	16,429	14,834	10,180	16,951
1944	12,151	13,133	13,419	14,765	10,084	10,407	10,471	10,749	11,210	13,491	12,261	16,719	15,080	10,460	12,324
1945	10,942	12,374	12,807	11,483	10,892	10,814	10,731	11,135	16,925	19,668	15,283	13,480	10,773	9,582	12,819
1946	12,273	13,516	13,952	16,876	15,756	17,340	17,486	19,900	23,087	20,687	18,366	13,805	12,823	9,638	16,125
1947	12,078	13,777	19,604	20,608	18,703	17,866	15,031	18,227	20,419	19,659	17,175	16,955	14,500	10,847	16,924
1948	17,109	15,800	16,942	20,492	13,641	14,425	14,939	19,028	24,379	26,471	19,290	16,904	13,195	10,560	17,595
1949	12,777	13,386	14,469	15,890	13,626	19,386	15,072	20,906	22,753	19,671	14,302	16,580	17,421	12,308	16,130
1950	12,223	13,765	13,221	17,467	19,233	20,912	19,666	19,984	20,627	25,199	20,557	14,005	11,022	9,403	17,079
1951	14,755	17,201	22,057	23,611	23,691	18,699	19,583	20,811	23,060	18,836	19,498	16,325	16,861	11,392	19,133
1952	15,957	14,120	18,089	19,766	16,708	15,949	19,266	20,886	24,546	20,161	16,138	16,492	16,495	11,925	17,494
1953	11,689	13,021	12,978	16,310	18,602	12,225	10,759	14,533	20,510	24,490	19,935	16,496	12,897	10,277	15,615
1954	12,640	13,802	16,603	18,644	19,186	15,444	18,453	17,219	21,229	23,571	21,977	17,047	14,722	10,895	17,309
1955	13,837	15,054	16,100	13,802	10,891	10,381	12,917	11,807	15,928	25,705	23,539	18,717	17,126	15,995	15,960
1956	14,386	16,052	20,734	24,625	17,773	19,669	20,121	23,779	24,647	26,502	20,204	16,596	17,088	10,772	19,513
1957	13,405	13,407	16,951	17,611	12,764	14,638	20,173	17,569	23,956	25,167	16,050	17,316	15,883	10,985	16,700
1958	12,159	13,152	13,869	17,294	16,954	15,364	13,240	18,333	22,844	22,451	15,325	14,696	12,135	10,071	15,724
1959	12,106	15,006	18,169	23,338	19,585	15,331	17,684	16,855	19,576	23,302	20,714	14,704	12,737	10,355	17,373
1960	18,411	17,774	19,462	19,488	14,086	15,193	23,005	19,813	18,865	20,723	17,585	16,381	15,371	16,001	17,906
1961	12,277	14,238	14,521	18,237	18,207	16,626	17,033	16,991	19,697	24,573	16,518	16,906	12,999	10,464	16,444
1962	12,131	13,258	13,266	17,490	11,843	11,154	19,825	21,015	19,050	18,674	17,723	14,977	13,306	9,669	14,902
1963	13,276	15,111	18,141	17,781	15,852	13,485	13,152	13,912	20,040	19,622	17,178	16,228	14,063	10,224	15,782
1964	11,889	13,836	13,896	17,559	13,196	11,218	15,004	15,401	18,298	25,945	22,546	17,209	14,535	11,008	15,872
1965	14,010	13,870	21,150	25,387	22,218	18,555	16,809	21,008	22,408	21,571	16,966	16,872	16,426	12,418	18,676
1966	13,028	13,781	15,985	19,452	12,476	12,054	17,974	15,074	18,700	17,814	18,080	16,796	16,091	11,188	15,461
1967	11,913	13,431	15,044	20,422	20,800	13,474	16,623	14,440	16,918	24,823	20,712	16,698	14,194	9,995	16,542
1968	13,259	13,887	15,882	19,543	17,745	15,854	10,517	13,749	16,421	21,007	19,537	16,419	15,386	11,082	16,021
1969	14,721	15,932	17,853	23,082	19,658	16,338	21,723	21,225	24,609	20,903	17,650	16,623	16,078	13,325	18,491
1970	12,369	13,588	14,152	18,667	17,170	12,204	11,588	14,991	18,776	22,042	14,438	16,750	13,024	10,500	15,173
1971	12,232	13,870	14,221	22,181	24,379	17,996	18,248	19,882	24,727	25,431	21,405	14,439	12,235	9,903	18,229
1972	12,666	14,101	16,444	21,702	23,618	23,848	23,765	18,256	24,340	26,124	22,067	17,340	17,550	11,587	19,579
1973	12,761	13,510	17,155	19,916	10,710	11,204	9,994	11,512	12,987	15,649	14,327	18,336	16,939	12,496	14,092
1974	11,321	13,128	18,830	26,875	24,586	20,604	21,335	22,565	23,508	26,735	24,646	13,487	10,928	9,314	19,476
1975	11,649	13,447	15,034	19,140	15,758	17,452	14,757	15,901	20,704	23,123	22,333	17,589	17,479	12,300	16,984
1976	13,938	16,712	23,349	23,830	19,831	16,584	21,011	19,288	23,617	19,592	21,377	15,287	14,019	11,292	18,744
1977	12,824	13,025	13,321	14,688	9,969	9,864	9,568	9,905	12,072	12,707	12,015	20,042	19,248	17,084	13,079
1978	10,548	13,029	14,326	17,502	13,709	17,287	15,058	16,965	20,008	18,398	18,433	13,454	10,790	9,104	15,040

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

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Aug1	Aug16	Sep	Avg.
1929	11,910	13,185	13,134	13,837	9,556	11,099	10,453	11,054	11,988	16,236	14,583	16,758	12,792	10,206	12,605
1930	11,652	12,763	12,837	10,873	11,849	11,108	11,145	11,112	11,400	14,768	14,585	13,289	11,755	9,578	12,089
1931	11,630	12,830	12,622	11,173	9,483	10,884	11,401	10,553	11,596	13,889	13,269	14,014	12,149	9,853	11,774
1932	11,300	12,595	12,705	11,405	9,674	13,933	17,452	21,305	21,235	21,183	17,212	13,615	11,218	9,635	14,389
1933	11,879	13,512	15,165	19,245	16,357	11,258	13,356	14,637	18,368	25,540	22,674	16,818	14,931	10,274	16,179
1934	15,134	16,706	23,559	25,771	21,843	18,249	22,545	21,411	20,376	14,384	15,761	16,414	16,371	11,658	18,484
1935	11,661	13,586	14,434	18,668	18,368	10,234	12,190	15,524	17,285	19,111	17,188	12,964	10,644	9,462	14,638
1936	11,684	12,770	12,689	12,047	9,855	11,647	11,124	15,708	23,578	18,433	14,793	15,586	12,881	9,901	13,754
1937	11,634	12,705	12,939	10,948	9,614	10,977	11,191	11,029	11,947	15,190	14,154	14,967	11,964	9,786	12,039
1938	12,220	13,584	13,916	20,036	13,045	15,589	16,127	17,912	22,319	19,783	16,618	14,303	11,238	9,652	15,546
1939	11,984	13,082	13,337	15,617	10,530	12,287	12,566	14,405	19,372	15,256	15,284	13,982	11,592	10,554	13,631
1940	12,114	12,678	13,794	14,095	12,623	16,147	14,194	15,682	16,423	15,707	13,220	15,348	12,107	9,739	13,767
1941	11,743	12,545	14,051	14,692	10,090	11,186	10,141	11,066	12,643	15,122	12,443	13,377	11,399	9,549	12,255
1942	11,479	11,974	17,360	18,958	11,263	10,019	11,565	13,316	16,201	21,140	18,057	13,172	11,507	9,971	14,267
1943	11,691	13,425	14,538	18,577	16,779	16,903	22,789	21,515	22,326	21,803	19,692	16,444	14,841	10,193	16,977
1944	12,164	13,145	13,446	14,780	10,093	10,416	10,480	10,734	11,189	13,464	12,275	16,727	15,090	10,468	12,330
1945	10,953	12,387	12,831	11,493	10,902	10,824	10,741	11,114	17,004	19,688	15,303	13,481	10,772	9,594	12,836
1946	12,285	13,529	13,981	16,890	15,772	17,357	17,508	19,948	23,075	20,660	18,388	13,804	12,825	9,648	16,135
1947	12,090	13,789	19,632	20,636	18,721	17,884	15,048	18,171	20,457	19,621	17,197	16,970	14,507	10,859	16,936
1948	17,129	15,812	16,974	20,515	13,654	14,441	14,973	19,038	24,402	26,546	19,319	16,913	13,195	10,572	17,619
1949	12,791	13,398	14,496	15,909	13,637	19,405	15,139	20,933	22,775	19,639	14,318	16,591	17,437	12,323	16,145
1950	12,235	13,778	13,250	17,487	19,250	20,934	19,782	19,997	20,586	25,314	20,582	14,006	11,019	9,413	17,102
1951	14,771	17,212	22,095	23,641	23,719	18,717	19,698	20,812	23,050	18,801	19,523	16,331	16,874	11,403	19,149
1952	15,975	14,134	18,120	19,788	16,726	15,962	19,315	20,873	24,580	20,205	16,159	16,504	16,508	11,941	17,516
1953	11,701	13,034	13,007	16,321	18,623	12,240	10,824	14,469	20,438	24,594	19,959	16,507	12,895	10,287	15,629
1954	12,654	13,815	16,631	18,665	19,208	15,460	18,501	17,263	21,195	23,531	22,004	17,059	14,729	10,908	17,321
1955	13,853	15,067	16,132	13,817	10,901	10,391	12,931	11,790	15,852	25,783	23,571	18,736	17,141	16,026	15,974
1956	14,401	16,064	20,767	24,656	17,793	19,686	20,194	23,813	24,770	26,619	20,229	16,608	17,104	10,786	19,553
1957	13,419	13,419	16,980	17,631	12,775	14,653	20,290	17,566	23,942	25,276	16,068	17,329	15,893	10,997	16,725
1958	12,172	13,164	13,896	17,314	16,969	15,382	13,244	18,364	22,880	22,467	15,341	14,699	12,132	10,081	15,741
1959	12,120	15,019	18,200	23,365	19,610	15,345	17,701	16,807	19,496	23,367	20,737	14,706	12,739	10,366	17,383
1960	18,432	17,787	19,499	19,516	14,103	15,208	23,072	19,742	18,803	20,711	17,606	16,394	15,382	16,027	17,916
1961	12,291	14,252	14,549	18,257	18,227	16,644	17,083	16,953	19,632	24,540	16,537	16,920	12,998	10,479	16,449
1962	12,145	13,271	13,293	17,510	11,858	11,164	19,841	21,080	18,973	18,650	17,745	14,985	13,311	9,680	14,908
1963	13,290	15,124	18,172	17,804	15,869	13,495	13,167	13,890	20,046	19,711	17,200	16,241	14,068	10,236	15,803
1964	11,902	13,848	13,923	17,579	13,212	11,228	15,110	15,348	18,275	25,998	22,577	17,222	14,540	11,021	15,889
1965	14,027	13,884	21,179	25,419	22,243	18,572	16,844	21,095	22,411	21,632	16,985	16,883	16,438	12,433	18,701
1966	13,042	13,795	16,013	19,474	12,494	12,065	17,996	15,049	18,659	17,789	18,103	16,807	16,097	11,199	15,467
1967	11,926	13,443	15,073	20,445	20,824	13,489	16,660	14,456	16,877	24,936	20,736	16,715	14,196	10,006	16,564
1968	13,273	13,900	15,910	19,564	17,766	15,870	10,527	13,725	16,381	21,001	19,559	16,433	15,398	11,097	16,030
1969	14,737	15,945	17,886	23,109	19,683	16,352	21,824	21,257	24,619	20,871	17,671	16,637	16,088	13,343	18,510
1970	12,383	13,601	14,180	18,683	17,189	12,218	11,649	15,004	18,776	22,145	14,455	16,759	13,027	10,511	15,197
1971	12,245	13,881	14,249	22,204	24,406	18,013	18,341	19,907	24,813	25,460	21,431	14,442	12,231	9,909	18,256
1972	12,680	14,114	16,472	21,724	23,644	23,871	23,829	18,186	24,384	26,212	22,098	17,353	17,566	11,600	19,605
1973	12,775	13,522	17,184	19,937	10,721	11,214	10,007	11,499	12,956	15,625	14,343	18,353	16,954	12,510	14,100
1974	11,332	13,140	18,857	26,909	24,615	20,625	21,448	22,625	23,516	26,735	24,679	13,493	10,929	9,325	19,498
1975	11,662	13,459	15,061	19,161	15,777	17,467	14,753	15,833	20,698	23,159	22,413	17,601	17,496	12,316	17,001
1976	13,953	16,724	23,388	23,859	19,854	16,602	21,129	19,308	23,642	19,645	21,403	15,294	14,021	11,304	18,771
1977	12,839	13,037	13,349	14,704	9,979	9,873	9,578	9,895	12,049	12,683	12,030	20,065	19,266	17,116	13,088
1978	10,558	13,041	14,351	17,518	13,722	17,304	15,073	16,922	19,976	18,420	18,455	13,459	10,792	9,116	15,049

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

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Aug1	Aug16	Sep	Avg.
1929	11,923	13,186	13,132	13,833	9,547	11,086	10,424	11,022	11,955	16,224	14,564	16,796	12,815	10,231	12,601
1930	11,662	12,769	12,838	10,864	11,842	11,098	11,114	11,073	11,369	14,767	14,577	13,312	11,777	9,602	12,086
1931	11,638	12,835	12,626	11,164	9,476	10,873	11,372	10,520	11,569	13,897	13,268	14,042	12,174	9,876	11,773
1932	11,311	12,599	12,702	11,394	9,667	13,917	17,433	21,302	21,223	21,192	17,201	13,645	11,244	9,659	14,390
1933	11,893	13,515	15,165	19,259	16,374	11,252	13,346	14,616	18,360	25,545	22,681	16,848	14,955	10,300	16,186
1934	15,157	16,708	23,571	25,793	21,867	18,253	22,532	21,400	20,382	14,385	15,758	16,446	16,404	11,690	18,496
1935	11,672	13,587	14,432	18,680	18,388	10,234	12,165	15,501	17,261	19,108	17,185	12,993	10,671	9,490	14,642
1936	11,697	12,776	12,693	12,044	9,848	11,635	11,100	15,669	23,567	18,445	14,785	15,621	12,907	9,927	13,756
1937	11,646	12,712	12,942	10,941	9,609	10,968	11,164	10,997	11,909	15,181	14,144	14,994	11,986	9,809	12,036
1938	12,232	13,591	13,915	20,046	13,050	15,582	16,107	17,887	22,312	19,778	16,606	14,331	11,265	9,676	15,549
1939	11,996	13,084	13,332	15,623	10,526	12,273	12,538	14,369	19,351	15,256	15,274	14,007	11,606	10,581	13,630
1940	12,128	12,685	13,794	14,091	12,613	16,141	14,162	15,664	16,393	15,705	13,211	15,379	12,131	9,763	13,766
1941	11,755	12,550	14,052	14,683	10,081	11,174	10,120	11,049	12,619	15,115	12,423	13,403	11,425	9,573	12,252
1942	11,488	11,974	17,353	18,978	11,256	10,006	11,533	13,282	16,174	21,141	18,054	13,194	11,528	9,994	14,265
1943	11,704	13,426	14,531	18,579	16,768	16,890	22,765	21,486	22,321	21,796	19,675	16,477	14,864	10,217	16,975
1944	12,176	13,146	13,440	14,776	10,082	10,403	10,448	10,706	11,163	13,454	12,251	16,752	15,112	10,491	12,324
1945	10,962	12,389	12,830	11,480	10,889	10,810	10,711	11,077	16,972	19,681	15,294	13,502	10,793	9,618	12,831
1946	12,293	13,532	13,976	16,882	15,767	17,350	17,491	19,924	23,073	20,673	18,378	13,824	12,844	9,671	16,136
1947	12,100	13,789	19,615	20,654	18,718	17,882	15,035	18,153	20,440	19,633	17,187	17,002	14,531	10,886	16,939
1948	17,154	15,812	16,976	20,520	13,645	14,439	14,957	19,018	24,391	26,555	19,322	16,940	13,212	10,597	17,623
1949	12,805	13,400	14,490	15,912	13,627	19,397	15,114	20,916	22,755	19,645	14,302	16,619	17,467	12,351	16,145
1950	12,245	13,779	13,247	17,494	19,251	20,934	19,755	19,979	20,578	25,321	20,570	14,027	11,037	9,436	17,104
1951	14,787	17,207	22,096	23,660	23,729	18,711	19,676	20,798	23,047	18,800	19,518	16,354	16,900	11,429	19,154
1952	15,995	14,138	18,113	19,796	16,726	15,951	19,284	20,842	24,569	20,203	16,146	16,532	16,535	11,970	17,517
1953	11,712	13,038	13,006	16,304	18,627	12,235	10,810	14,444	20,427	24,592	19,947	16,535	12,910	10,310	15,629
1954	12,669	13,820	16,628	18,671	19,216	15,457	18,484	17,232	21,191	23,553	22,006	17,088	14,751	10,935	17,327
1955	13,872	15,071	16,136	13,814	10,893	10,382	12,905	11,770	15,832	25,801	23,582	18,772	17,170	16,067	15,980
1956	14,419	16,062	20,764	24,674	17,796	19,675	20,180	23,794	24,760	26,631	20,225	16,639	17,134	10,811	19,558
1957	13,433	13,420	16,973	17,637	12,763	14,642	20,264	17,548	23,931	25,289	16,051	17,357	15,917	11,024	16,725
1958	12,183	13,168	13,889	17,318	16,962	15,384	13,222	18,338	22,860	22,483	15,322	14,722	12,147	10,105	15,741
1959	12,134	15,017	18,194	23,378	19,627	15,336	17,690	16,794	19,493	23,380	20,732	14,728	12,759	10,391	17,389
1960	18,453	17,787	19,506	19,538	14,105	15,199	23,068	19,738	18,796	20,715	17,598	16,425	15,408	16,068	17,924
1961	12,306	14,255	14,546	18,267	18,233	16,645	17,075	16,938	19,636	24,566	16,531	16,952	13,016	10,506	16,457
1962	12,159	13,272	13,290	17,516	11,855	11,151	19,816	21,073	18,964	18,651	17,737	15,014	13,337	9,703	14,910
1963	13,303	15,125	18,169	17,815	15,864	13,483	13,145	13,871	20,019	19,705	17,192	16,271	14,091	10,260	15,802
1964	11,915	13,849	13,919	17,587	13,214	11,217	15,074	15,326	18,256	26,000	22,583	17,253	14,560	11,049	15,891
1965	14,046	13,889	21,161	25,432	22,246	18,564	16,822	21,070	22,396	21,619	16,962	16,912	16,462	12,463	18,701
1966	13,056	13,798	16,004	19,482	12,502	12,052	17,983	15,029	18,644	17,792	18,102	16,832	16,115	11,227	15,470
1967	11,939	13,446	15,071	20,457	20,839	13,488	16,655	14,439	16,857	24,944	20,730	16,750	14,218	10,031	16,569
1968	13,287	13,903	15,903	19,570	17,768	15,867	10,499	13,706	16,352	21,008	19,552	16,464	15,425	11,124	16,032
1969	14,753	15,944	17,886	23,118	19,694	16,339	21,809	21,243	24,613	20,888	17,661	16,670	16,114	13,377	18,516
1970	12,398	13,604	14,174	18,674	17,186	12,211	11,632	14,998	18,755	22,132	14,436	16,787	13,049	10,536	15,195
1971	12,254	13,880	14,238	22,202	24,412	18,001	18,315	19,889	24,801	25,459	21,424	14,465	12,245	9,931	18,255
1972	12,692	14,113	16,463	21,725	23,651	23,870	23,823	18,175	24,373	26,216	22,106	17,383	17,595	11,628	19,610
1973	12,789	13,522	17,176	19,940	10,712	11,202	9,984	11,479	12,926	15,625	14,332	18,387	16,984	12,539	14,098
1974	11,338	13,136	18,844	26,923	24,627	20,620	21,427	22,606	23,501	26,739	24,683	13,520	10,952	9,348	19,501
1975	11,673	13,459	15,053	19,167	15,782	17,458	14,738	15,812	20,682	23,148	22,406	17,629	17,524	12,346	17,002
1976	13,966	16,721	23,385	23,872	19,864	16,593	21,108	19,290	23,627	19,637	21,404	15,317	14,037	11,332	18,773
1977	12,855	13,039	13,344	14,702	9,969	9,863	9,551	9,871	12,030	12,682	12,019	20,102	19,296	17,162	13,090
1978	10,566	13,041	14,335	17,512	13,709	17,301	15,063	16,909	19,965	18,412	18,441	13,486	10,818	9,140	15,047