

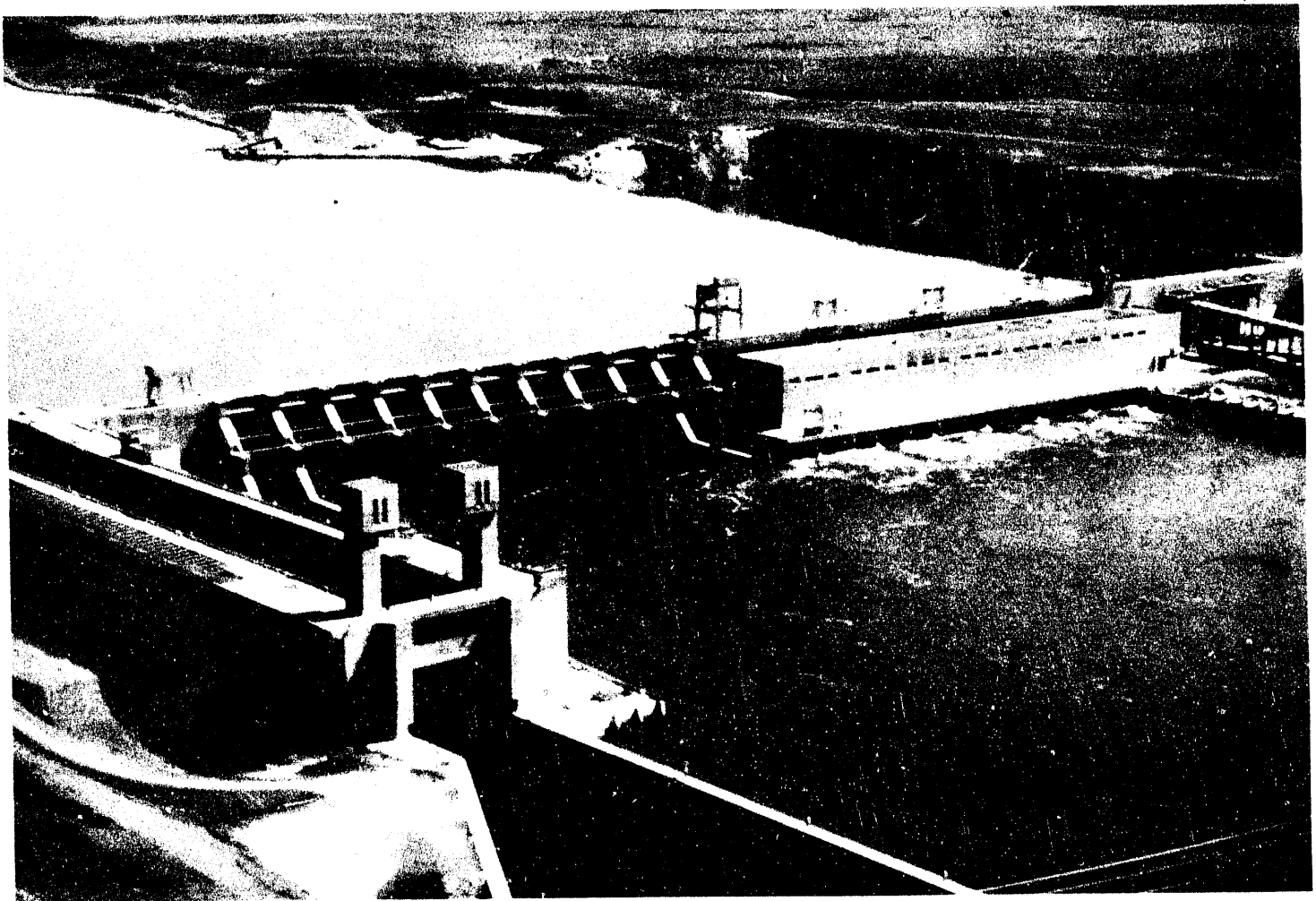
1993 Pacific Northwest Loads and Resources Study

Technical Appendix: Volume 2 Book 1, Energy

*This document is a product of the
Energy Resources Development
and Implementation Process:*

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Define Situation →
Identify Alternatives
Select Strategies
Implement Strategies
Evaluate Performance



Energy Resources Development and Implementation Process

The Energy Resources Program contains all the steps needed to plan for and manage energy resources. This chart reflects that process, with major tasks for each step. Though we display a linear process, it is a simplification; many interactions among the stages take place. Throughout the process, Bonneville asks customers, the Northwest Power Planning Council, utility and environmental groups, the public and others for their advice and comment.

*Customers
Northwest Power
Planning Council
Utility and
Environmental Groups
The Public*

Defining the Resource Picture

To define the resource picture, Bonneville assesses its customers' power requirements for the next 20 years and the supply of existing resources. Bonneville and the Northwest Power Planning Council publish energy demand forecasts, and analysts forecast how much power from existing resources will be available to meet projected uses. The difference must be met by new resources.

Identifying Alternatives

Analysts track potential resources and predict future supplies of conservation and generation resources, including imports and power exchanges. Analysts study all aspects of a resource: reliability, public opinion, cost, environmental impact, regulatory transmission and fuel constraints, and development time. Alternatives considered include opportunities for coordinating hydro system operations with Canada and for power purchases and transfers with Canadian and Southwest utilities.

Selecting Strategies

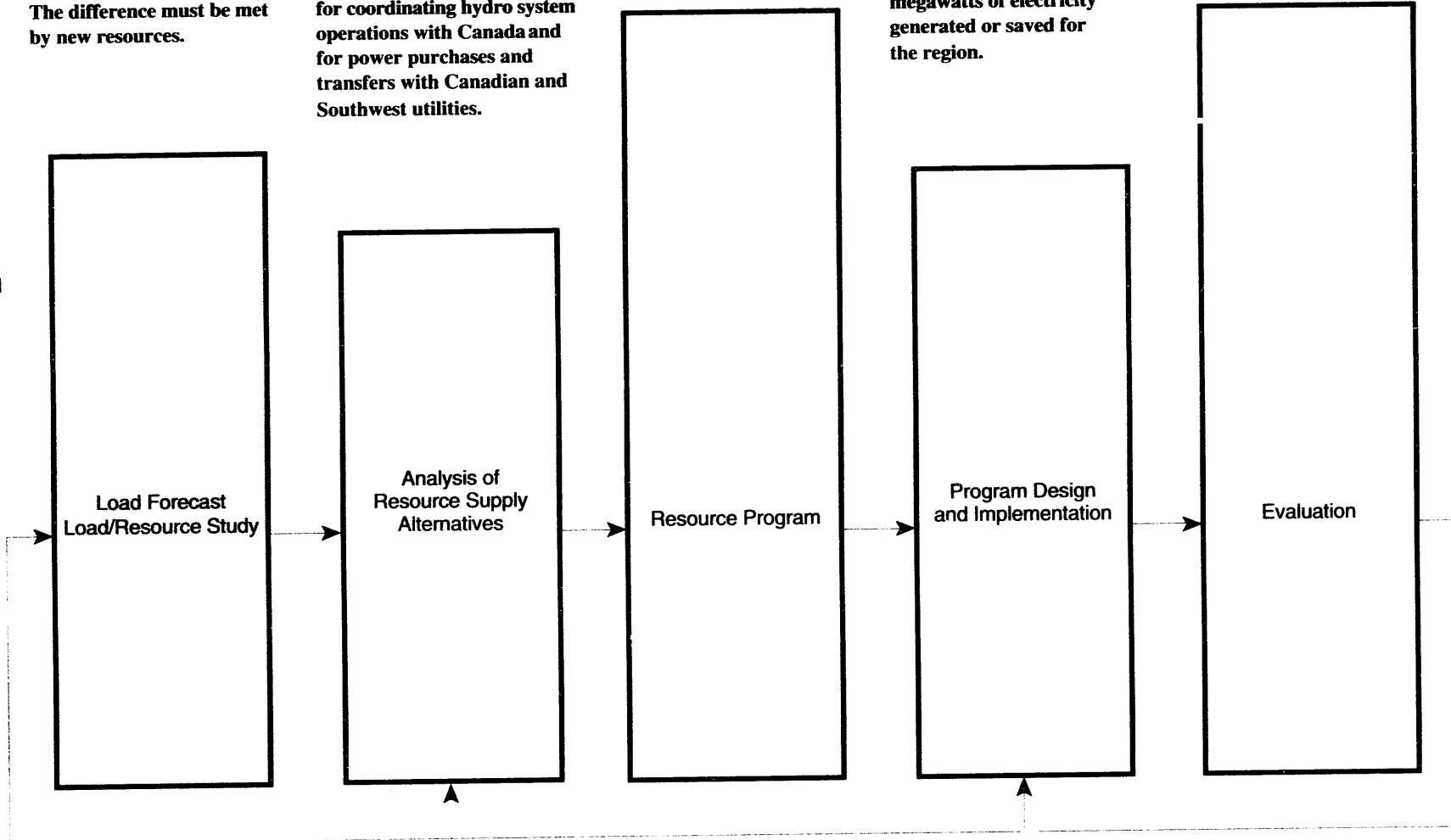
Using information on loads and resources, Bonneville weighs combinations of resources, their consequences, and public comment to choose the most appropriate and cost-effective resource strategy. The Resource Program documents this strategy.

Implementing Strategies

Fulfilling the plans in the Resource Program is the next step. Working with utilities, resource developers, interest groups, the public, and others, Bonneville sponsors conservation and generation programs and projects. BPA conducts environmental reviews of programs and projects and also provides oversight for generation projects. The result: megawatts of electricity generated or saved for the region.

Evaluating Performance

How well did actions meet BPA's objectives? Answering this question through program evaluation provides information on energy savings, energy production, costs and other measures of program quality. It is BPA's policy to evaluate all energy resource acquisitions.



dr

MASTER

December 1993

BONNEVILLE POWER ADMINISTRATION



TECHNICAL APPENDIX: VOLUME 2, BOOK 1

1993 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY



*Cover: Ice Harbor Dam
Owned and operated by the
U.S. Army Corps of Engineers
BPA Photo*

ACKNOWLEDGMENTS

Preparation of the annual Pacific Northwest loads and resources study is a complex, multidisciplinary effort. The managers of BPA's Power Forecasting Branch wish to acknowledge the team--BPA staff and others--whose diligence and dedication result in a reliable, high quality document.

Power Forecasting Branch

Loads and Resources Section

Customer Loads Section

Long-Term Forecasting Section

Economic Forecasting Section

BPA's Power Systems Branch

Hydro system regulation and data collection

Pacific Northwest Utilities Conference Committee

Load and resource data collection

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**MONTHLY CAPACITY AND NONFIRM ENERGY ANALYSIS TABLES ARE
CONTAINED IN THE 1993 PACIFIC NORTHWEST LOADS AND RESOURCES
STUDY TECHNICAL APPENDIX: VOLUME 2, BOOK 2**

SECTION I
OVERVIEW

I. OVERVIEW

Introduction

During the past year, through its Competitiveness Project, the Bonneville Power Administration (BPA) has focused on how it will meet its public responsibilities and competitive challenges in a rapidly changing electric utility industry. The Competitiveness Project is the "reinventing" of BPA from a program-driven, beneficiary-focused, spending-prescribed, and process-oriented organization to a business model that is market-driven, customer-focused, cost-conscious, and results-oriented. To provide strategic direction to the transformation, BPA will be completing a marketing plan, several 10-year plans, and a business plan. These plans will establish the direction for future conservation, generation, fish and wildlife, transmission, and operation and maintenance programs. These plans will establish what future actions BPA should take to best position itself in an increasingly competitive market while responsibly meeting environmental and other non-power requirements. The study does not attempt to present or analyze future conservation or generation resource scenarios.

This process of "reinventing" BPA brings an added dimension to loads and resources forecasting: the inclusion of load placement uncertainty and new marketing strategies. BPA will reevaluate its planned resource acquisitions. The impact of this re-evaluation and agency "reinvention" will be analyzed in future loads and resources studies.

The 1993 Pacific Northwest Loads and Resources Study establishes the Bonneville Power Administration's (BPA) planning basis for supplying electricity to BPA customers. The Loads and Resources Study is presented in three documents: 1) this technical appendix detailing loads and resources for each major Pacific Northwest generating utility, 2) a summary of Federal system and Pacific Northwest region loads and resources, and 3) a technical appendix detailing forecasted Pacific Northwest economic trends and loads. This analysis updates the 1992 Pacific Northwest Loads and Resources Study Technical Appendix published in December 1992.

This technical appendix provides utility-specific information that BPA uses in its long-range planning. It incorporates the following for each utility:

- 1) Electrical demand--firm loads;
- 2) Generating resources; and
- 3) Contracts both inside and outside the region.

This document should be used in combination with the 1993 Pacific Northwest Loads and Resources Study, published in December 1993, because much of the information in that document is not duplicated here.

This BPA planning document incorporates Pacific Northwest generating resources and the 1993 medium load forecast prepared by BPA. Each utility's forecasted future firm loads are subtracted from its existing resources to determine

whether it will be surplus or deficit. If a utility's resources are greater than loads in any particular year or month, there is a surplus of energy and/or capacity, which the utility can sell to increase revenues. Conversely, if its firm loads exceed available resources, there is a deficit of energy and/or capacity, and additional conservation, contract purchases, or generating resources will be needed to meet the utility's load.

Additional copies of this technical appendix, along with copies of the documents listed below, can be obtained from BPA's Public Involvement Office, toll-free, 1-800-622-4520:

- ◆ 1993 Pacific Northwest Loads and Resources Study, published December 1993.
- ◆ 1993 Pacific Northwest Loads and Resources Study, Pacific Northwest Economic and Electricity Use Forecast Technical Appendix: Volume 1 (available February 1994).

Study Content

This document details the loads, resources, and contracts of each utility in the Pacific Northwest region and profiles each utility's loads and resources balance. This analysis assumes the following:

- ◆ The Pacific Northwest Coordination Agreement, which expires June 30, 2003, is replaced with a like agreement;
- ◆ BPA's power sales contracts with Pacific Northwest Federal and public agencies, IOUs, and DSIs, which expire June 30, 2001, are renewed with like agreements;
- ◆ All existing regional contractual arrangements not included under

Pacific Northwest power sales contracts expire and are not renewed;

- ◆ Federal Southwest surplus firm power sales except the cities of Burbank, Glendale, and Pasadena, and the Southern California Edison Company (SCE), are shown as power sales through their expiration; the Federal surplus firm power sale with the M-S-R Public Power Agency, whose members include Modesto Irrigation District and the cities of Santa Clara and Redding, California, is shown as a power sale through October 31, 2009, then converts to a capacity/energy exchange until it expires;
- ◆ BPA's bridge capacity sale of 1,100 peak megawatts to Pacific Power and Light Company continues through July 31, 1995;
- ◆ The Trojan nuclear plant was permanently closed on January 4, 1993.
- ◆ BPA serves all of the Pacific Northwest public agencies' net firm load requirements not served by their own resources; and
- ◆ The IOUs do not make long-term BPA purchases under their power sales contracts; and

The energy analysis spans 10 years and contains yearly averages for operating years (OYs) 1994-95 through 2003-04¹ by month for OYs 1994-95, 1998-99, and 2003-04. The capacity analysis is shown by month for OYs 1994-95, 1998-99, and 2003-04. BPA considers these three years of monthly capacity data representative of the 10-year study period. The inclusion of monthly energy and capacity data for 10 years

¹Operating Year (OY) is the 12-month period August 1 through July 31. For example, OY 1994-95 is August 1, 1994 through July 31, 1995.

would be massive and would not enhance the usefulness of this study. This appendix also includes monthly summaries spanning 10 years of regional and Federal system capacity surpluses/deficits under the medium load forecast, based on capacity

delivery levels of 50 hours per week. In addition, sensitivity tables are included showing the regional and Federal system capacity surpluses/deficits at capacity delivery levels of 30 hours per week and 70 hours per week.

CHANGES IN THE 1993 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY

This section describes the major changes in the assumptions of the 1993 Pacific Northwest Loads and Resources Study compared to the 1992 study. Other changes are reflected in the data for each utility contained in this appendix.

10-Year Planning Period

This year's study covers a 10-year planning period. Historically, this study covered a 20-year planning horizon.

In the 1970s and early 1980s, utilities were building large nuclear and coal plants, which took 7 to 12 years to complete. Thus, utilities needed to know projected energy deficits for a planning, construction, and ramp-up period that could span 20-years. Utilities no longer are building these large thermal resources, relying instead on shorter lead-time resources such as combustion turbines, cogeneration, and conservation to meet their firm power deficits.

Monthly Energy and Capacity Tables

The monthly shape of energy and capacity loads and resources has become more important as the impact of the measures needed to assist fish mitigation have affected Pacific Northwest hydro operations. Monthly firm energy and capacity forecasts for medium loads under 1930 water conditions for OY 1994-95, 1998-99, and

2003-04 are included as exhibits at the end of this study.

42-Month Hydro Critical Period

This study uses a 42-month critical period average hydro energy capability in conjunction with a reduction for the May Water Budget for the annual firm energy surplus/deficit tables. Previously, studies were based on a 39-month critical period average, eliminating the three May generation periods. By instituting the 42-month critical period along with the May Water Budget for the hydro critical period average, the additional energy due to the May Water Budget can be readily analyzed. The May Water Budget reduction is discussed below.

May Water Budget Generation

This study defines the amount of additional energy due to the May Water Budget generation as a reduction in hydro system energy capability. Previous studies did not include the May Water Budget generation as a line item; rather, the three months of May were eliminated from the 42-month critical period -- September 1929 through February 1932 -- creating a 39-month critical period average. The May Water Budget reduction is used with the 42-month critical period average energy. May hydro energy is extremely high due to Water Budget operation to support fish mitigation. May Water Budget generation

for the Federal system is beyond normal amounts that can be marketed. This energy is included as a reduction to the hydro energy capability on the Federal system loads and resources table. The amount of May Water Budget generation is manageable for all other Pacific Northwest utilities and no adjustments were made in their loads and resources tables.

Extreme Weather Effects on the Federal and Regional Capacity Surplus/Deficit

This year's study includes extreme weather adjustments for the Pacific Northwest utilities' capacity surplus/deficit analysis. The effects of extreme weather are usually of a few days duration in the Pacific Northwest and thus impact capacity availability only. The extreme weather factors in this study were based on the

February 1989 cold snap. Extreme weather peak load adjustments affect the months of November, December, January, and February, and estimate a 5 percent probability that peak load will be exceeded. By incorporating extreme weather conditions, the studies more closely reflect actual operation and reliability levels.

Impacts of extreme weather are included as an additional scenario on lines 43 through 48 in the Federal Capacity Exhibits 14 through 16, pages 88 through 93. The Federal extreme weather adjustments include possible increased obligations on BPA by the public agencies during extreme weather conditions.

The capacity surpluses/deficits presented on line 29 of the public agency capacity load/resource tables represents the surplus/deficit after purchase from BPA under the normal peak forecast. As in past studies, these have a 50-percent probability of being exceeded.

Peak extreme weather adjustments are shown in Table TA-2-1.

Table TA-2-1

**OY 1994-95 Peak Load Extreme Weather Adjustments
Medium Load Forecast**

Peak Load Increase (MW)	August 1 - October 31	November	December	January	February	March 1- July 31
Federal Extreme Weather¹	0	1,492	1,680	1,752	1,570	0
Regional Extreme Weather	0	3,655	3,955	4,107	3,923	0

¹Includes potential obligations on BPA by most of BPA's public agency power sales contract customers.

DSI Aluminum Firm Loads

The near-term portion of the 1993 BPA forecast assumes that DSI aluminum smelter firm load will be 2,019 average megawatts in OY 1995. The Aluminum DSI firm loads are forecasted to decline to 1,811 average megawatts in OY 1998, then further decline to 1,663 average megawatts at the end of the current power sales contract in 2001. In the 1992 study, DSI aluminum smelter firm loads were forecasted at 2,013 average megawatts in OY 1995, declining to 1,823 average megawatts in 1998, then further declining to 1,694 average megawatts at the end of the current power sales contract in 2001. The small difference between the 1993 and 1992 study forecasts is due to a changed assumption regarding increased electricity purchases from non-BPA sources.

The declining operating rates in both the 1992 and the 1993 study reflect the greater uncertainties surrounding the effect of salmon recovery plans on the future availability and price of electricity, the effect on smelters of implementing the Clean Air Act amendment, the Variable Industrial (VI)

power rate expiration, and renegotiation of expiring power sales contracts.

DSI Non-Aluminum Firm Loads

The near-term forecast assumes that the non-aluminum DSI firm energy will be 175 average megawatts in OY 1995, rising to 217 average megawatts by OY 1997, declining to 162 average megawatts by OY 2001, and remaining at that level through the rest of the study period. In the 1992 BPA forecast, non-aluminum DSI firm energy was forecasted at 200 average megawatts in OY 1995 and was otherwise the same as the 1993 forecast. This change in the forecast is due to projected changes in Nickel Joint Venture's operations, coupled with a weakening chlorine market, a strengthening sodium chlorate market, and energy efficiency improvements at some DSI plants.

Public Utility Loads

Public utility loads are affected by higher retail electric rates as the result of higher projected PF rates in the forecast period.

In addition, the forecast of fossil fuel prices are lower than in previous forecasts. These changes in energy prices plus minor changes in economic factors have the effect of lowering forecasted public utility loads compared to the 1992 study. Public utility loads are expected to grow from 7,264 average megawatts in OY 1994-95 to 8,170 average megawatts in OY 2003-04. These forecasted load levels are between 50 and 160 average megawatts lower than for the same period in the 1992 study.

Non-Utility Generation

Regional utilities, primarily the investor owned utilities (IOUs), are acquiring significant non-utility generation (NUG) to meet their customers' needs. The total NUG has increased from 500 average megawatts for OY 1994-95, shown in last year's study, to 936 average megawatts for the same period in this year's study, an 87-percent increase. By OY 2003-04, NUG increases from 478 average megawatts projected in last year's study, to 964 average megawatts in this year's analysis, an increase of 101 percent.

New Federal System Firm Resources

BPA contracted with the North Pacific Division of the Corps of Engineers to install three-dimensional cam controllers on 90 of their Kaplan turbine generators on the Columbia and Snake River projects.

These controllers angle the turbine blades to capture optimum output from head and flow at each unit. The Corps is presently installing the devices and plans on completing the work by the end of March 1994. A conservative estimate shows that this should provide about 45 average megawatts of firm energy to the hydro system.

This additional generation was not included in the data submitted for this year's hydro regulation. The increased generation was added as an ad-hoc adjustment to hydro firm energy.

Northern Wasco's McNary Fishway hydro unit was added as a new Federal system firm generating resource and was included in this year's study.

Trojan Nuclear Power Plant

Portland General Electric Company retired the Trojan nuclear plant from service on January 4, 1993. The permanent shutdown of Trojan caused a loss of 1,104 megawatts of capacity and 713 average megawatts of firm energy in the region. The Federal system lost 331 megawatts of capacity and 214 average megawatts of energy.

BPA POWER SALES CONTRACTS

The Pacific Northwest Electric Power Planning and Conservation Act (Northwest Power Act), Public Law 96-501, requires BPA to offer power sales contracts to all its regional customers. These contracts provide a basis for public agencies, cooperatives, and investor-owned utilities (IOUs) to purchase wholesale power from BPA. If requested, BPA is obligated to serve that portion of each contract customer's firm load not already served by the customer's own resources.

Dedicated Resources

BPA's power sales contracts require each customer to submit an annual Firm Resource Exhibit (FRE) declaring which of its own resources will be dedicated to serve firm loads. Each customer's FRE covers a rolling 7-year period (the first year of the 7-year period is dropped and a new seventh year is added with each annual submittal). A utility customer may add or subtract from its dedicated resources for the seventh year. The current FRE period is OYs 1993-94 through 1999-2000. Depending on the Federal loads and resources balance, the utility customer has the option of changing its dedicated resources during the 7-year FRE period, thus changing BPA's obligation to that utility. A BPA utility customer may withdraw dedicated resources if the Federal system has a firm energy surplus, or may add dedicated resources if the Federal system is firm energy deficit. This analysis

assumes that any resource dedicated by a customer to serve its loads in the current seventh year (OY 1999-2000) will remain dedicated to serve those loads throughout the 10-year study period.

BPA Obligations to Public Agencies

Public agencies that own and schedule resources to meet their loads are considered to be generating public agencies. These public agencies may obligate BPA to deliver either their actual or their planned computed energy requirements under their power sales contracts.

Actual Computed Requirements Customers

Actual Computed Requirements customers are entitled to purchase firm power in amounts equal to their actual firm peak and firm energy load, less their assured peak and energy capability, respectively. While Actual Computed Requirements customers provide BPA with estimates of their monthly firm peak energy and loads, these customers are always entitled to take from BPA the amount of power they actually need, whether it is more or less than estimated.

Planned Computed Requirements Customers

Planned Computed Requirements customers obligate BPA to deliver only that amount of power the customer has planned to purchase from BPA. These purchase plans are submitted in the customer's Assured Capability Exhibit to BPA in advance for each coming operating year. Any power the Planned Computed Requirements customer needs beyond each month's stated plan is the responsibility of the customer. Conversely, the customer is not obligated to take all the power it has planned to purchase, and is free to purchase power from other sources.

Currently, all of BPA's generating public agency Computed Requirements customers are purchasing on the basis of Actual Computed Requirements contracts except for Tacoma Generating Utilities, which is a Planned Computed Requirements customer.

BPA's obligation to each public agency customer equals the sum of the customer's firm loads less the sum of its dedicated resources. A public agency's firm loads include its system loads plus exports and contracts out. Resources include generating resources plus imports and contracts in. For example, if a public agency has a firm load of 100 average megawatts and has 20 average megawatts of dedicated resources, BPA's obligation under the power sales contract would be 80 average megawatts. BPA's total obligation to generating public agencies is shown in Federal Table 2, line 12, Section II, pages TA-2-32 through TA-2-36, and in Section VII, pages TA-2-148 through TA-2-156.

BPA Obligations to Small and Nongenerating Public Agencies

Metered Requirements Customers

The small and nongenerating public agencies are designated as Metered Requirements customers. These customers assign their resources, if any, to BPA. In return, BPA is obligated to serve their total requirements.

For this study, BPA's obligation to the small and nongenerating public agencies is analyzed by aggregating the firm loads and FRE dedicated resources of this group. Their requirements placed on BPA equal the sum of their firm loads less the sum of their dedicated resources. The total BPA obligation to small and nongenerating public agencies is presented in Federal Table 2, line 7, Section II, pages TA-2-32 through TA-2-36, and in Section VII, pages TA-2-148 through TA-2-156.

BPA does have a model that analyzes the loads and resources of each of the small and nongenerating utilities and the total BPA obligation. This model verifies that the difference between the two methodologies is insignificant and use of either model is appropriate.

BPA Obligations to Investor-Owned Utilities

Contracted Computed Requirements Customers

BPA's investor-owned utility (IOU) customers have selected the Contracted Computed Requirements power sales contract option.

A Contracted Computed Requirements customer schedules its annual peak and

average energy purchases for a 7-year period. This allows a customer to contract for an amount of power from BPA which is less than its full net requirement. The customer must then acquire firm resources to serve its remaining load from sources other than BPA.

There is only one IOU placing an obligation on BPA:

- ◆ Portland General Electric Company (PGE) is purchasing capacity of 150 megawatts through June 30, 1999, under its power sales contract.

Puget Sound Power and Light Company (Puget) was purchasing energy from BPA under its power sales contract in last year's study. The company's purchase of energy

has been revised to zero for this year's study.

This analysis assumes no new long-term IOU power sales contract purchases from BPA. This is due to the uncertainty of the IOUs' intentions concerning whether to purchase BPA power under their power sales contracts. BPA believes this decision is reasonable because: 1) The IOUs have not informed BPA to the contrary; and 2) the IOU power sales contracts contain a 7-year notice requirement that provides BPA adequate time to secure resources to meet increased IOU obligations. The total BPA obligation to the IOUs is presented in Federal Table 2, line 13, Section II, pages TA-2-32 through TA-2-36, and in Section VII, pages TA-2-148 through TA-2-156.

UTILITY PROFILES

Montana Power Company

Montana Power Company (MPC) has only a portion of its load in the Pacific Northwest region. The power sales contract between BPA and MPC specifies the method for determining that portion of MPC's firm resources committed to serve its firm loads within the region. This method assumes that all contractual obligations between BPA and MPC are dedicated to serve only that portion of MPC's firm load that falls within the Pacific Northwest region. MPC must use its own resources--or resources purchased from other providers--to meet its residual load obligations outside the Pacific Northwest region.

All of MPC's generating resources, with the exception of its share of Colstrip 4, are submitted in its annual Firm Resource Exhibit (FRE). (Colstrip 4 is excluded because MPC's share of this project has been sold to Puget Sound Power and Light (50 percent) and the Los Angeles Department of Water Power (50 percent).) These resources are prorated according to the portion of MPC's residual load in the region. By prorating resources in this manner, resources will be assigned to the Pacific Northwest region until MPC's entire region is in loads and resources balance. This allows any MPC system surpluses to reside on MPC's eastern system. At the time MPC's total system becomes deficit, that deficit will be shared equally between

MPC's Pacific Northwest and eastern systems.

This analysis specifies MPC's prorated resources as "regional." The loads and resources balance for MPC is included in Table U-2, Section III, page TA-2-47, and in Section VIII, pages TA-2-171 through TA-2-173. The loads and resources analysis for the total MPC system is presented in Table M-2, Section IV, page TA-2-67, and in Section IX, pages TA-2-227 through TA-2-229.

Utah Power Company

Utah Power Company has only a portion of its service territory in the Pacific Northwest region. The resources used to serve Utah's load are assumed to be intra-company transfers equal to their load in the region. The utility analysis for Utah is shown in Table U-6, Section III, page TA-2-51, and in Section VIII, pages TA-2-183 through TA-2-185.

Utah Power Company and Pacific Power and Light Company have merged into one company, PacifiCorp. These utilities are moving toward a one-utility submittal and may be represented in a different format in future analyses.

CONTRACT SPECIFICS

Canadian Downstream Benefits

The Columbia River Treaty is one of several Pacific Northwest contracts that will change during the 10-year study period. This treaty between the United States and Canada enhanced the use of storage in the Columbia River Basin. The treaty and treaty projects provide downstream power benefits by increasing the firm power generating capability of U.S. hydro projects. Under the terms of the agreement, the downstream power benefits are shared equally between the two countries as determined by a joint Annual Operating Plan.

Canadian Entitlement to Columbia Storage Power Exchange (CSPE) Through March 31, 2003

Canada agreed to sell its share of the downstream power benefits, called the Canadian Entitlement, for 30-year periods beginning with the completion of each of the three Canadian Treaty Projects. The Canadian Entitlement was sold to the Columbia Storage Power Exchange (CSPE), a Pacific Northwest corporation that was formed to sell the Canadian benefits to participating Pacific Northwest utilities. The Canadian Entitlement sale to CSPE begins to expire April 1, 1998, 30 years after the completion of the first

Treaty Project, and expires March 31, 2003. The Canadian Entitlement CSPE deliveries are included in each participating utility's loads and resources balance, Section III, line 8, pages TA-2-46 through TA-2-63, and in Section VIII, pages TA-2-168 through TA-2-221.

Canadian Entitlement to Canada, Beginning April 1, 1998

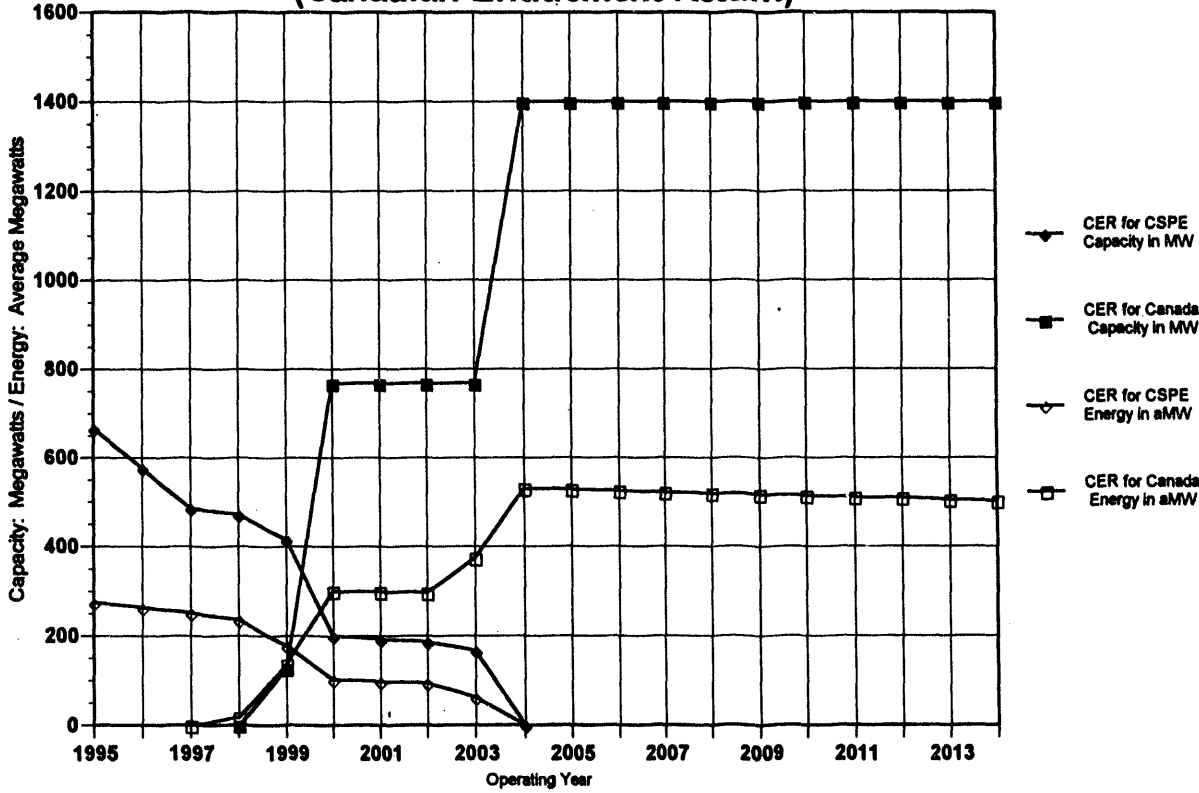
A portion of the Canadian share of downstream power benefits will begin to return to Canada April 1, 1998, 30 years after the first Treaty Project was completed. All remaining Canadian downstream power benefits will revert to Canada by April 1, 2003, 30 years after the third Treaty Project was completed. This analysis assumes that the capacity and

energy obligations on U.S. hydro projects will equal the utilities' percentages of Canadian Entitlement CSPE participation. These entitlement obligations are being negotiated with the involved parties. The tables will be updated after negotiations are completed. Participating utilities will deliver Canadian Entitlement to the U.S. Entity (BPA) for capacity and energy returns to Canada. It is shown for each participating utility, starting in April 1998. The Canadian Entitlement Canada delivery is included in each participating utility's loads and resources balance, Section III, line 9, pages TA-2-46 through TA-2-63, and in Section VIII, pages TA-2-168 through TA-2-221.

Canadian Entitlement deliveries to the CSPE, which expires April 1, 2003, and Canadian Entitlement returns to Canada, which begins April 1, 1998, are presented in Figure TA-2-1.

Figure TA-2-1

Downstream Benefits Due Canada Under Columbia River Treaty (Canadian Entitlement Return)



RPCE:02/04

Non-Pacific Northwest Utility Transactions

Some resources located in the Pacific Northwest are owned by entities outside the region. They are labeled Non-Pacific Northwest Utility Transactions and have no bearing on the regional loads and resources balance. However, they must be added as imports or exports of resources to determine the proper quantity of imports and exports. Current Non-Pacific Northwest Utility Transactions include the purchase by the Western Area Power

Administration (WAPA) of output from the Longview Fiber cogeneration resource, Portland General Electric Company's sale of 14.2 percent of the Boardman coal project to San Diego Gas and Electric, and the sale of Pacific Northwest Generating Company's 10-percent share of the Boardman coal project to the City of Turlock, California. Non-Pacific Northwest Utility Transactions are included in Table M-3, Section IV, page TA-2-68, and in Section IX, pages TA-2-230 through TA-2-232.

RESOURCES

Hydro and Thermal Resources

The Pacific Northwest regional resources are comprised of generating resources operated or being built by Federal entities, public agencies, investor-owned utilities (IOUs), and independent power producers (IPPs). This study contains BPA's current projection of generation from existing resources and those future resources with signed utility contracts.

Hydro Resources

Energy Capability: BPA long-range planning is based on the firm energy capability of the hydro system. The firm hydro energy capability is the amount of power produced by these regional hydro resources in the worst low-water period--called the critical period--recorded for the Columbia River Basin. The energy produced by the region's hydro projects during the 42-month critical period is calculated using the generation average for

the period September 1928 through February 1932. The additional energy due to the May Water Budget generation is shown as a line adjustment to hydro firm energy to avoid overstating the Federal firm hydro energy generation resulting from implementing Water Budget flows to assist fish migration. The regional hydro system generates approximately 12,760 average megawatts of firm energy under critical water conditions.

Capacity: The monthly instantaneous capacity of hydro projects is defined as the full-gate-flow maximum available generation at each project, based on the average monthly elevation resulting from 1929-30 water reservoir levels. BPA assumes 1929-30 water levels to estimate the regional hydro capacity because that year approximates a peaking capability that is consistent with the reliability criteria set forth in the Pacific Northwest Coordination Agreement. The methodology and reliability criteria for water level selection

are detailed in Section XIII, *Capacity Water Year Selection*, page TA-2-757.

The monthly instantaneous capacity is limited to 10 times the project's average monthly energy production because, at low or minimum water discharge, a plant may not be allowed to release enough water to achieve maximum capacity. The region's hydro projects have constraints and storage limitations within any water condition.

BPA's planning projections reduce the estimated instantaneous hydro capacity to reflect a Federal sustained peaking level of 50 hours per week. This level provides estimated firm hydro capacity that can be maintained each day and continued for weeks at a time. This definition of firm capacity provides a better measure of resource capability. The hydro generation also is adjusted to allow for scheduled hydro maintenance, spinning reserves, and forced outage reserves.

The amount of 50-hours-per-week capacity and the Federal capacity surplus, however, may still be overestimated. This is due to changes in the hydro operation and increased hydro constraints, which can create nighttime return problems on the system. These constraints are common in summer and fall, when the Northwest nighttime loads are low, and will greatly reduce sustained capacity surplus availability. Therefore, the capacity surplus values do not reflect potential nighttime return problems on the system. BPA is continuing to analyze the availability of capacity and how potential new constraints could affect the operation of the hydro system. This is detailed in *Federal Sustained Peaking Reduction*, page TA-2-19.

Extreme Weather: This year's study includes extreme weather adjustments for the Pacific Northwest utilities' capacity

surplus/deficit analysis. The effects of extreme weather are usually of a few days duration in the Pacific Northwest and thus impact capacity availability only. The extreme weather factors in this study were based on the February 1989 cold snap. Extreme weather peak load adjustments affect the months of November, December, January, and February, and estimate a 5 percent probability that peak load will be exceeded. By incorporating extreme weather conditions, the studies more closely reflect actual operation and reliability levels.

Multiple-Use Planning: Pacific Northwest hydro projects have many uses besides power generation. The projects may provide flood control, supply irrigation for farming, assist in river navigation and recreation, and contribute to municipal water supplies. In addition, constraints also are in place to protect and enhance anadromous fish populations. These non-power uses place operating constraints on the reservoirs and limit hydro-electric power production. BPA's resource planning takes into account all presently known hydro constraints in assessing regional hydro system capability.

The Corps of Engineers, Bureau of Reclamation, and BPA are jointly preparing a System Operation Review (SOR) EIS on the operation of the Columbia River hydro-power system. This EIS will allow the three Federal agencies to make decisions on 1) adopting a System Operating Strategy (SOS), 2) renewing the Pacific Northwest Coordination Agreement, 3) renegotiating five Canadian Entitlement allocation agreements, and 4) developing a means to periodically review and update the SOS.

As part of the development of a multiple-use operating strategy for the hydro system, the SOR EIS will evaluate the

trade-offs between power and nonpower uses. Major changes in Columbia River system operations are being considered.

The Draft SOR EIS is expected to be ready in April 1994, and the Final SOR EIS is scheduled for completion by early 1995.

Fish and Wildlife Programs: The augmented flows specified for the Snake River and its tributaries as part of the Northwest Power Planning Council's Phase II Columbia River Basin Fish and Wildlife Program fish amendments (December 11, 1991) were incorporated in this year's critical period hydro regulation study; the augmented Columbia River flows called for in the amendments were not included.

Incorporating these amendments affects the regional hydro firm energy and significantly reduces the 50-hours-per-week capability of the hydro system in some months.

Additional details of the Council's Phase II Program and its impacts on the region's hydropower system are detailed in the *1993 Pacific Northwest Loads and Resources Study*.

On September 9, 1992, the Council adopted an expanded Phase III Fish and Wildlife Program and later adopted a Phase IV Program. However, these amendments have not yet been analyzed or fully incorporated in BPA hydro regulation studies.

The Pacific Northwest Power Planning Council, BPA, and other Pacific Northwest entities will continue to evaluate new ways to enhance fisheries and wildlife. Future proposals could include additional amendments to the Council's Fish and Wildlife Program, recommendations arising from the System Operation Review, and/or implementation of additional programs in support of the Endangered Species Act. The impacts of future proposals are

unknown. These proposals, however, most likely will increase non-power requirements on the hydro system and reduce operating flexibility, change the monthly shape of streamflows, and change the availability of sustained Federal capacity. Future studies will incorporate these impacts.

Thermal Resources

The expected output of regional thermal resources is based on the energy and capacity capabilities submitted to BPA by the project owners. The output of all thermal plants is reduced to allow for scheduled maintenance, spinning reserves, and forced outage reserves. The Trojan nuclear plant was permanently closed on January 4, 1993, shortly after this analysis was completed.

This study does not include Washington Public Power Supply System (WPPSS) nuclear plants 1 and 3 (WNP-1, WNP-3) as assured resources, though the plants have been retained in a state of preservation.

Maintenance and Reserve Adjustments

In computing available resources, BPA adjusts all hydro and thermal generation levels to allow for scheduled maintenance, spinning reserves, and forced outage reserves.

Each utility's loads and resources balance includes scheduled hydro maintenance. The production loss due to maintenance is based on the mean of the 1983-84 through 1988-89 schedules submitted to the Northwest Power Pool. These schedules are published annually in the Pacific Northwest Coordination Agreement Data and Pool Operating Program. Hydro maintenance estimates are included in each utility's loads and resources balance, Section III, line 24, pages TA-2-46 through

TA-2-63, and in Section VIII, pages TA-2-168 through TA-2-221. Federal system hydro maintenance is shown in Federal Table 2, line 41, Section II, pages TA-2-32 through TA-2-33, and in Section VII, pages TA-2-148 through TA-2-153. Hydro maintenance is also summarized in Regional Table 1, line 32, Section II, pages TA-2-28, and in Section VII, pages TA-2-142 through TA-2-144.

Federal spinning reserves include the generating capacity maintained for immediate response to load variations, thus providing a regulating margin for the automatic generation and frequency control of power in the system. BPA calculates spinning reserve estimates by using the Western Systems Coordinating Council (WSCC) and Pacific Northwest Power Operating Plan guidelines. The spinning reserves are computed by summing 2.5 percent of the Federal hydro capability plus 3.5 percent of Federal thermal capacity. The spinning reserve margins are shown in Regional Table 1, line 30, Section VII, pages TA-2-142 through TA-2-144, and in Federal Table 2, line 39, Section VII, pages TA-2-148 through TA-2-153.

BPA estimates the forced outage reserve margins using guidelines set in the Coordination Agreement. This analysis estimates the forced outage reserve margins to be 5 percent of the total capacity of hydro, small thermal, combustion turbines, cogeneration, and renewable and miscellaneous resources, plus 15 percent of large thermal capacity. Estimated peak forced outage reserves are shown in Table A-17, Section X, pages TA-2-313 through TA-2-318, and are included in each utility's loads and resources balance, lines 22 and 23, Section III, pages TA-2-46

through TA-2-63, and in Section VIII, pages TA-2-168 through TA-2-221. Federal system forced outage reserves are shown in Federal Table 2, lines 37 and 38, Section VII, pages TA-2-148 through TA-2-153. Forced outage reserves are also summarized in Regional Table 1, lines 28 and 29, Section VII, pages TA-2-142 through TA-2-144.

In the event of forced outages, BPA may curtail a portion of the direct service industry (DSI) firm load in order to maintain service to existing and future loads and contracts. The DSI contribution to the system operating reserves is estimated to be one-fourth the total DSI load--approximately 600 peak megawatts. The DSI reserve margins are shown in Regional Table 1, line 31, Section VII, pages TA-2-142 through TA-2-144, and in Federal Table 2, line 40, Section VII, pages TA-2-148 through TA-2-153.

Non-Utility Generation

Regional Non-Utility Generation (NUG) consists of firm resources declared by regional utilities under the Public Utility Regulatory Policies Act of 1978 (PURPA), Public Law 95-617, and by the independent power producers (IPP). These NUG resources include hydro, cogeneration, biomass, wind, and miscellaneous resources detailed in each utility's firm resource exhibits. NUG resources are summarized for each utility in Table A-25, Section V, pages TA-2-106, and in Table A-23, Section X, pages TA-2-334 through TA-2-336. They are also included in each utility's loads and resources balance, Section III, line 20, pages TA-2-46 through TA-2-63, and in Section VIII, pages TA-2-168 through TA-2-221.

FEDERAL CAPACITY LOAD DIVERSITY

The 1-hour Federal firm capacity load is reduced to reflect the fact that not all peak loads occur simultaneously. Variations in the timing of Federal peak loads throughout the region reduce the actual capacity needed to serve firm loads from what it would be if peak demands were simply added together. Table TA-2-2 shows the Federal capacity diversity adjustment, which is a percentage reduction applied to the total Federal firm peak loads less the Federal loads to the U.S. Bureau of

Reclamation (USBR), DSI firm loads, DSI firm losses, and Federal exports. The Federal firm diversity adjustment is multiplied by the adjusted Federal 1-hour firm load to determine the 1-hour peak load diversity reduction. The Federal firm diversity reductions are shown in Federal Table 2, line 14, Section VII, pages TA-2-148 through TA-2-153, and in Regional Table 1, line 4, Section VII, pages TA-2-142 through TA-2-144.

Table TA-2-2

Federal Peak Load Diversity Factors

Month	Diversity Adjustment
July	0.13
August	0.13
September	0.13
October	0.12
November	0.10
December	0.07
January	0.07
February	0.07
March	0.10
April	0.10
May	0.12
June	0.13

FEDERAL SUSTAINED PEAKING REDUCTION

The Federal Columbia River Power System must provide peaking capacity for sustained periods each day and continue to do so for months at a time in order to meet firm capacity needs and market available capacity surpluses. The Federal system instantaneous peak capabilities are reduced by a sustained peaking reduction to determine Federal sustained capacity levels. The current methodology for calculating sustained peaking capability follows. This year's analysis incorporates additional sustained peaking reductions due to Snake River flow augmentation occurring April 16 through August 31.

Methodology for Computing the Federal Sustained Peaking Reduction

This analysis assumes Federal sustained peaking capacity levels derived by month from actual hourly Federal hydro generation for a typical week during OYs 1979-80 through 1983-84. The shape of the generation is stretched by increasing sales in the 50 peak hours of that week and decreasing sales in the off-peak hours. It is assumed that return energy from peak sales will be accepted during 80 off-peak hours per week. To arrive at the Federal sustained capacity level, this stretching of the shape is continued until at least one of the following constraints is violated:

- ◆ Limitations on moving water between projects, including upstream storage;

- ◆ Pondage limitations due to hydraulic imbalance from reservoir to reservoir; and
- ◆ Navigation and recreation constraints, including restrictions on the rate of rise or fall of tailwater and forebay elevations.

The sustained hydro peaking capacity takes into account allowances for spinning reserves, forced outages, and hydro maintenance. The monthly sustained hydro peaking capability is a function of available Federal hydro energy in that month. Due to pondage constraints and relatively low Federal loads, the amount of hydro energy generation is usually low in the late summer and fall (July through October), and results in lower sustained peaking capabilities during these months.

This year's analysis was designed to simulate the following firm planning assumptions from the Northwest Power Planning Council's Phase II Columbia River Basin Fish and Wildlife Program fish amendments, adopted December 11, 1991:

- ◆ Additional non-power requirements;
- ◆ Flow augmentation on the Snake River; and
- ◆ Minimum operating pool elevations and reduced operating ranges during the April 16 through August 31 period at the Lower Snake River projects of Ice Harbor, Lower Monumental, Little Goose, and Lower Granite, and at the John Day project.

The reduced operating ranges and lower reservoir elevations at the Lower Snake

River and John Day projects during the late spring and summer significantly reduced their sustained peaking capability. Estimates of the reduced sustained capacity of the Snake River and John Day projects due to Snake River flow augmentation were provided by the Power Systems Branch of the Division of Resource Planning. Table TA-2-3 shows that the 50-hours-per-week capability of these projects was reduced by up to 1,500 peak megawatts during this period. Details of these changes are included in the 1993 Pacific Northwest Loads and Resources Study, Technical Appendix: Volume 2.

The difference between the Federal instantaneous hydro capacity and the sustained hydro peak capability is the

sustained peak reduction. This analysis assumes that the hydro system can use the difference between sustained peaking capability and the instantaneous peak to meet system fluctuations. To avoid double counting in the regional and Federal system loads and resources balances, the sustained peak reduction is further reduced by hydro spinning reserves, hydro forced outage reserves, and hydro maintenance. These adjustments are already considered as reductions in the capabilities of the region and the Federal system. The sustained peak reduction used in this analysis is shown in Regional Table 1, line 10, Section VII, pages TA-2-142 through TA-2-144, and in Federal Table 2, line 23, Section VII, pages TA-2-148 through TA-2-153.

Table TA-2-3

**Council Phase II Fish and Wildlife Program
50-Hours-Per-Week Capacity Impacts on the
John Day and Lower Snake River Projects ¹**

Period	John Day Hydro Project²	Lower Snake River Hydro Projects²	Total Peak Capacity Reduction (MW)²
April 16-30	0	1,100	1,100
May	1,000	200	1,200
June	400	1,100	1,500
July	100	600	700
August 1-15	100	0	100
August 16-31	100	0	100

¹Lower Snake River projects include Ice Harbor, Lower Monumental, Little Goose, and Lower Granite.

²50-hours-per-week sustained peaking reduction.

FEDERAL FORCED ENERGY SALES

There are seasonal periods, typically during late summer and early fall, when the Federal system may be unable to accept all the off-peak return and exchange energy that results from capacity sales and capacity/energy exchange contracts. Return and exchange energy from these contracts is needed to meet Federal firm loads under critical water conditions. If the Federal hydro system cannot store this return energy by reducing nighttime generation, this energy must be sold or spilled over hydro projects. The Federal sustained peaking capability and capacity surplus values do not reflect forced energy sales due to nighttime energy returns from capacity contracts. Taking into account potential nighttime return problems would greatly reduce the Federal sustained peaking capability and capacity surplus. BPA used the following assumptions in determining the quantity of forced energy sales:

- ◆ Federal system nighttime load patterns follow historical minimums;
- ◆ BPA's nighttime energy returns from existing capacity, capacity/energy exchange, and WNP-3 settlement contracts are assumed delivered at contract return limits;
- ◆ BPA's WNP-2 thermal project is operated base-loaded; and
- ◆ The Federal hydro system does not go below its minimum generation requirements.

When estimated minimum hourly Federal resources - including energy receipts - are greater than estimated minimum hourly Federal loads in any month, forced energy sales are computed using algorithms that relate minimum 1-hour potential overgeneration to monthly spill energy in average megawatts. The monthly spill energy resulting from forced energy sales is shown for OYs 1994-95, 1998-99, and 2003-04 in Table M-5, line 34, Section XIV, pages TA-2-538 through TA-2-543.

This analysis shows potential for forced energy sales under current Federal contract conditions. Potential forced energy sales change over time due to the expiration of some Federal capacity or capacity/energy exchange contracts that contain return and exchange energy provisions. To limit the potential for overgeneration problems, future Federal surplus capacity sales contracts should include provisions to:

- ◆ Limit return energy to a percentage of contract demand;
- ◆ Defer energy returns to a time more favorable to system operation; and
- ◆ Include cash-out provisions for return and exchange energy.

REGIONAL AND FEDERAL CAPACITY SURPLUSES/DEFICITS

The loads and resources analysis for all utilities assumes the following:

- ◆ The Pacific Northwest Coordination Agreement, which expires June 30, 2003, is replaced with a like agreement;
- ◆ BPA's power sales contracts with Pacific Northwest Federal and public agencies, IOUs, and DSIs, which expire June 30, 2001, are renewed with like agreements;
- ◆ All existing regional contractual arrangements not included under BPA's Pacific Northwest power sales contracts expire and are not renewed;
- ◆ All Federal Southwest surplus firm power sales, except M-S-R, are shown as power sales through their expiration. M-S-R is shown as a power sale through October 31, 2009, then converts to a capacity/energy exchange until it expires; and
- ◆ The IOUs do not make long-term BPA purchases under their power sales contracts; and
- ◆ The Trojan nuclear plant was permanently closed on January 4, 1993.

The regional and Federal sustained peaking capability and capacity surplus values do not reflect potential nighttime return problems on the system. If peaking replacement energy from capacity sales or exchange energy from capacity/energy exchange contracts is returned at night, the output of the hydro system and other re-

gional resources could be greater than the region's nighttime load. Nighttime overgeneration is due to low loads, nonpower hydro constraints that require minimum streamflows, and the inability of thermal resources to cycle from day to night. These constraints restrict the ability to accept nighttime return energy, even though there is surplus generating capability during the daytime. These constraints are common in summer and fall, when the Northwest nighttime loads are low, and will greatly reduce sustained capacity surplus availability. This problem is being investigated and will be presented in future studies.

The figures in this year's study assume extreme weather loads during the months of November through February. Extreme weather capacity surpluses/deficits will more clearly reflect actual operation and reliability levels when used in BPA marketing.

This study details the analysis of the region and Federal system by month for OYs 1994-95, 1998-99, and 2003-04. The monthly 50-hours-per-week regional capacity analysis is presented in Regional Table 1, Section VII, pages TA-2-142 through TA-2-144. The monthly 50-hours-per-week Federal system capacity analysis is shown in Federal Table 2, Section VII, pages TA-2-148 through TA-2-153. The 20-year summary of regional 50-hours-per-week capacity surpluses/deficits is shown in Table S-1, Section XVII, page TA-2-750. The 20-year summary for the Federal system 50-hours-per-week capacity sur-

pluses/deficits is shown in Table S-2, Section XVII, page TA-2-753.

For comparison purposes, sensitivity tables are included in Section XVII, pages TA-2-749 through TA-2-755. These tables

reflect the regional and Federal system capacity surpluses/deficits for demands of 30 and 70 hours per week. Like the 50-hours-per-week tables, the capacity values shown in these tables do not reflect potential nighttime return problems on the system.

COUNCIL PHASE II PROGRAM AMENDMENTS FOR FISH AND WILDLIFE

The Pacific Northwest hydro system is continuing to become more constrained due to nonpower requirements. These requirements limit the flexibility of the hydro system to be drafted to follow monthly loads. Introduction of the water budget in 1982 caused significant impacts on the critical period Firm Energy Load Carrying Capability (FELCC). Nonetheless, under the water budget, the hydro system still had enough flexibility to store and draft water to produce a uniform surplus/deficit in all periods except the month of May. The water budget flows caused significant over-generation in May, creating nonfirm energy in that month, even under the critical period conditions used in BPA long-range planning.

The Northwest Power Planning Council (Council) has implemented additional non-power operating requirements. The Council's Phase II Columbia River Basin Fish and Wildlife Program fish amendments (December 11, 1991) have had a significant impact on the Pacific Northwest hydro system's ability to shape energy generation

to meet monthly loads.³ As more non-power requirements are placed on the hydro system, drafting flexibility most likely will be further curtailed, thus reducing the ability of the hydro system to follow monthly loads.

Details of the Council Phase II Fish and Wildlife Program Amendments

The Council's Phase II Program amendments include flow augmentation on the Snake and Columbia Rivers during certain times each year to enhance the summer migrant fish populations and wildlife.

³The Council's Phase II Program was used in conjunction with the U. S. Army Corps of Engineers' Record of Decision, Columbia River Salmon Flow Measures Options Analysis/EIS, 1992 Plan of Reservoir Regulation and Project Operations, April 10, 1992, for modeling flow augmentation operations on the Columbia and Snake Rivers.

Snake River Amendments

Snake River amendments require the hydro system to maintain reduced reservoir levels in the Lower Snake River and controlled drafts at the Upper Snake River projects to aid juvenile fish migration during the spring and summer. The augmented flow volume is accumulated in the Dworshak project in the Upper Snake River Basin during the winter for later release during the April 16 through August 31 period. To increase the flow velocity during the release period, minimum operating pool elevations and reduced operating ranges were maintained at the Lower Snake River projects of Ice Harbor, Lower Monumental, Little Goose, and Lower Granite, and at the John Day project on the Columbia River.

The augmented Snake River flows specified in the Council's Phase II Program were incorporated in both critical period and continuous 50-year hydro regulation studies.

Columbia River Amendments

The Council's Phase II Program amendments require the Columbia River hydro system to store up to 3 million acre-feet of water above Grand Coulee Dam from January through April that normally would be used to meet loads during these months. This water is released during the fish migration period and is modeled in the month of June. The actual amount of water storage is based on a "sliding scale" tied to Columbia River Basin runoff forecasts. The Columbia River amendments were defined so as to not affect regional FELCC.

These augmented flows are in addition to the storage requirements of the water budget.

Storing up to 3 million acre-feet of water for Columbia River flow augmentation during January through April is equivalent to 1,200 megawatt-months for each of the 4 months -- a total of 4,800 megawatt-months. The Council's Phase II amendments created some deficits during the flow augmentation storage periods, added large nonfirm surpluses in June, and made the hydro system unable to follow load on an operational basis in some of the 50 water years. Because the Council amendments stipulate that Columbia River flow augmentation cannot affect the regional FELCC, any deficits created by flow augmentation must be made up from available nonfirm energy under high-water flow conditions, or from purchases when nonfirm is unavailable.

The Columbia River amendments were not included in critical water planning hydro regulation studies because Columbia River flow augmentation is assumed to be met on an annual operational basis.

The continuous 50-year hydro regulation study, unlike the critical period analysis, includes both augmented Columbia and Snake River flows. The 50-year study serves FELCC based on system refill and a realistic secondary market based on displaceable thermal plants and intertie availability. This study is used to show regional surplus energy in excess of FELCC presented in the *Nonfirm Energy Analysis*, page TA-2-25, and in Section XIX, page TA-2-765.

NONFIRM ENERGY ANALYSIS

BPA resource planning uses critical water flows to compute the region's firm hydro energy. In most years, however, the Columbia River Basin collects enough water from rain and snow melt to surpass the region's critical water flows. The amount of hydro generation that can be produced in excess of critical water levels is called nonfirm energy. The availability of nonfirm energy described in this analysis has changed dramatically compared to last year's study.

Analysis of Regional Surplus Energy In Excess of FELCC—A New Perspective

As discussed in the previous section, additional nonpower operating requirements have been placed on the region's hydro system. The Council's Phase II Columbia River Basin Fish and Wildlife Program fish amendments created significant impacts on the ability of the system to shape energy generation to follow monthly loads. The Council plan included flow augmentation on both the Snake and Columbia Rivers and their tributaries to aid fish and wildlife. These impacts are included in the continuous 50-year hydro regulation study used in the nonfirm energy analysis. The changes also have made it necessary to analyze the availability of regional surplus energy in excess of FELCC differently.

The Council's Phase II Program changed the annual shape and amount of regional surplus energy available in excess of FELCC. In September through December,

there was little nonfirm energy available. In other months, there were deficits due to Columbia River augmentation in January through April. Furthermore, the release of the additional stored water in June created overgeneration about equal to what has historically occurred in May. These occurrences demonstrate that an annual average of nonfirm energy supply does not adequately represent the available nonfirm energy in any water year, given the limited flexibility of the hydro system. Nonfirm energy now should more appropriately be analyzed on a seasonal rather than an annual basis. Also, an impact in a particular period might be mitigated by the hydro system if future flow augmentation procedures are better developed. The seasonality of the surplus energy in excess of FELCC is as follows:

September through December

The DSI top quartile is served as firm energy in these months. The hydro system was able to serve this additional load approximately 75 percent of the time over the 50 water years. Depending upon water conditions, the 50-year hydro regulation study has limited amounts of nonfirm energy available beyond the DSI top quartile service during these months.

January through April

Based on a "sliding scale" tied to Columbia River Basin runoff forecasts, the hydro system must store up to 3 million acre-feet of water--the energy equivalent of up to 4,800 average megawatt-months (3,456,000 megawatt-hours)--for Columbia River flow augmentation. This energy must be stored and is not available for sale. Energy stored during these months reduces either firm or nonfirm energy availability, depending on water conditions.

This year's regional nonfirm energy analysis incorporating the Council's Phase II Program amendments using a 50-year hydro regulation study is presented in the "Regional Surplus Energy" table, Section XIX, page TA-2-765. Negative quantities in the table represent the amount of energy that must be purchased in low runoff water years. Columbia River flow augmentation was not required in 30 water years of the 50-year hydro regulation study because of sufficient volume estimates in the runoff forecast. The remaining 20 water years of the hydro regulation study had runoff forecasts that required Columbia River flow augmentation storage during January through April. In 15 of the 20 flow augmentation water years, the full 3 million acre-feet of storage was required. Lower runoff forecasts required less than 3 million acre-feet of storage in the remaining

5 flow augmentation water years. In 7 flow augmentation water years, significant firm energy deficits occurred due to reduced energy production and required purchases to meet FELCC during the January through April period. In the remaining flow augmentation water years, required storage was met by reducing nonfirm energy production; no additional energy purchases were needed to meet FELCC requirements.

If the Council's Phase II amendments are eventually incorporated into firm planning, firm resources may be needed to meet loads during the January through April period.

May through August

The water budget for May is modeled the same as in previous studies and continues to show significant over-generation. The greatest impact from the Council's Phase II Program during this period will occur in June, when water stored January through April is assumed to be released for Columbia River flow augmentation. The release of up to 3 million acre-feet of water will create overgeneration in June about equal to that of May. The months of July and August differ little from previous hydro regulation studies.

SECTION II: Annual Energy Analysis

LOADS AND RESOURCES TABLES OF THE NORTHWEST REGION BY MAJOR SUPPLY GROUPS

SECTION II - LOADS AND RESOURCES TABLES OF THE NORTHWEST REGION BY MAJOR SUPPLY GROUPS

Annual Energy Analysis

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TABLE 1: PACIFIC NORTHWEST REGIONAL AREA

SUMMARY OF PACIFIC NORTHWEST REGIONAL LOADS AND RESOURCES
 UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

		M E D I U M L O A D S									
		OPERATING YEAR									
MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS											
1	SYSTEM FIRM LOADS	1/ 20042	20269	20430	20687	20931	21133	21322	21408	21615	21825
2	SYSTEM TOTAL LOADS	2/ 20649	21016	21126	21381	21618	21811	21987	22033	22236	22443
3	EXPORTS	3/ 1311	1312	1298	1295	1411	1535	1525	1525	1601	1731
4	FED DIVERSITY	4/ 0	0	0	0	0	0	0	0	0	0
5	FIRM LOADS	21353	21581	21728	21982	22342	22668	22847	22933	23216	23556
6	TOTAL LOADS	21960	22328	22424	22676	23029	23346	23512	23558	23837	24174
RESOURCES											
7	REGULATED HYDRO	5/ 12044	12035	12048	12049	12100	12099	12099	12094	12095	12095
8	INDEPENDENT HYDRO	6/ 973	965	983	983	983	983	982	978	979	980
9	MAY WATER BUDGET	7/ -265	-265	-265	-265	-265	-265	-265	-265	-265	-265
10	SUS. PKNG. ADJUSTMENT	8/ 0	0	0	0	0	0	0	0	0	0
11	TOTAL HYDRO	12752	12735	12766	12767	12818	12817	12816	12807	12809	12810
12	SMALL THERMAL & MISC	9/ 48	41	51	51	50	50	50	46	47	47
13	COMBUSTION TURBINES	10/ 485	485	485	488	585	585	585	585	585	585
14	RENEWABLES	11/ 42	43	43	43	43	43	43	44	44	44
15	COGENERATION	12/ 50	271	301	301	301	301	301	301	301	301
16	IMPORTS	13/ 1937	1648	1603	1522	1473	1471	1482	1407	1437	1434
17	CENTRALIA	1186	1165	1164	1188	1186	1187	1185	1165	1164	1188
18	JIM BRIDGER	578	584	572	584	584	578	578	584	572	584
19	COLSTRIP 1 & 2	339	326	346	346	344	343	343	336	337	337
20	BOARDMAN	385	385	385	385	385	385	385	385	385	385
21	VALMY	195	195	196	195	194	195	195	195	195	194
22	COLSTRIP 3	496	487	501	501	500	500	499	495	494	495
23	WNP 2	715	747	751	751	751	751	751	751	751	751
24	COLSTRIP 4	617	618	617	617	617	617	617	617	617	617
25	FED RESOURCE ACQUIS	14/ 0	0	0	0	0	0	0	0	0	0
26	NON-UTILITY GENERATION	15/ 983	1029	1058	1057	1049	1049	1049	1016	992	992
27	TOTAL RESOURCES	20808	20759	20839	20796	20880	20872	20879	20734	20730	20764
28	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0
29	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0
30	BPA SPINNING RESERVES	18/ 0	0	0	0	0	0	0	0	0	0
31	DSI RESERVES	19/ 0	0	0	0	0	0	0	0	0	0
32	HYDRO MAINTENANCE	20/ -11	-11	-11	-11	-11	-11	-11	-11	-11	-11
33	NET RESOURCES	20797	20748	20828	20785	20869	20861	20868	20723	20719	20753
34	FIRM SURPLUS/DEFICIT	-557	-833	-900	-1197	-1473	-1807	-1979	-2210	-2497	-2803
35	TOTAL SURPLUS/DEFICIT	-1163	-1580	-1596	-1891	-2160	-2485	-2644	-2835	-3118	-3421
36	EXTREME WEATHER ADJ.	21/ 0	0	0	0	0	0	0	0	0	0
37	FIRM S/D W/EXT WEATHER ADJ.	-557	-833	-900	-1197	-1473	-1807	-1979	-2210	-2497	-2803
38	TOTAL S/D W/EXT WTHR. ADJ.	-1163	-1580	-1596	-1891	-2160	-2485	-2644	-2835	-3118	-3421

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

REGIONAL FOOTNOTES

Regional Table 1

1. Firm loads for the region include the sum of the estimated firm loads of Federal agencies, public agencies, Direct Service Industries (DSIs), Investor-Owned Utilities (IOUs), and associated transmission losses. Peak loads represent non-coincidental capacity demands adjusted to account for Federal system diversity; they are based on the prediction of normal weather and have a 50-percent chance of being exceeded.
2. Total loads for the region include system firm loads, plus BPA's nonfirm loads, which include industrial top-quartile loads, associated transmission losses, and Utah Power Company's interruptible load.
3. Exports from the region by Northwest utilities include BPA's surplus firm power sales to the cities of Burbank, Glendale, Pasadena, Sacramento Municipal Utility District, San Diego Gas and Electric, and Southern California Edison; BPA's surplus firm power sale to M-S-R Power agency, which converts to a capacity sale on November 1, 2009; BPA's capacity contracts with the cities of Anaheim and Riverside; BPA's contract with BC Hydro for Canadian Entitlement beginning April 1, 1998; BPA's Northwest-Southwest Intertie losses; Idaho Power Company's power sales to Sierra Pacific, the cities of Azusa, Banning, and Colton in California, the city of Washington in Utah, and Utah Associated Municipal Power Systems (UAMPS); Montana Power Company's power sales to the Los Angeles Department of Water and Power; Pacific Power and Light's transfer to its Northern California load, power sales to California Department of Water Resources, Pacific Gas and Electric, Southern California Edison, Sacramento Municipal Utility District, and the Western Area Power Administration (WAPA); Portland General Electric's power sales to the cities of Burbank and Glendale, Southern California Edison, and WAPA, and seasonal power exchange deliveries to Southern California Edison; Puget Sound Power and Light's seasonal power exchange deliveries to Pacific Gas and Electric; Washington Water Power's seasonal power exchange deliveries to Pacific Gas and Electric; the City of Idaho Falls' contract with Utah Power Company for Gem State Hydro; Seattle City Light's seasonal power exchange deliveries to Northern California Public Agencies; Snohomish County Public Utility District's seasonal power exchange with Sacramento Municipal Utility District, and Tacoma Public Utilities' power sale to WAPA.

Also included in exports are resources purchased by utilities outside the region. These include WAPA's purchase of the output of Longview Fibre, 14.2 percent of the Boardman coal plant sold to San Diego Gas and Electric, and 10 percent of the Boardman coal plant sold to the City of Turlock, CA.

4. Federal diversity is a percentage reduction applied to the Federal system non-coincidental peak utility allocation requirements. This is because all peaking electrical loads do not occur simultaneously throughout the region.
5. Regulated hydro includes those hydro dams where the firm energy generation of the dam is affected by the release of stored water from upstream reservoirs. Regulated hydro generation is determined by completing a hydro regulation study of the Pacific Northwest hydro system.
6. Independent hydro includes those hydro dams where no reservoirs exist upstream to release stored water and the firm energy is based on fixed historical flows. Hydro independents are not changed as a part of the hydro regulation study.
7. May Water Budget is the energy loss due to the overgeneration which may be unusable as a firm resource on the Federal system. This is a new adjustment due to the use of a 42-month critical period average hydro number rather than the 39-month critical period average hydro number used in last year's study.
8. Sustained peaking adjustment is a percentage reduction applied to the Federal hydro system to meet a capacity load of 50 hours per week. This adjustment also includes reductions for Federal hydro maintenance, spinning reserves, forced outage reserves, and summer flow augmentation on the Lower Snake River and John Day hydro projects.
9. Small thermal and miscellaneous resources include City of Idaho Falls' Diesel; Tacoma Public Utilities' Steam Plant No. 2; Idaho Power Company's Energy Management System; Portland General Electric's Summit units; Puget Sound Power and Light's Crystal Mountain and Shuffleton; Montana Power Company's portion of Corette and Bird in the region; and Seattle City Light's Boundary.
10. Combustion turbines include Idaho Power Company's Wood River; Portland General Electric's Bethel and Beaver; Puget Sound Power and Light's Whidbey Island, Whitehorn, Fredrickson, and Fredonia units; and Washington Water Power's Northeast units and Rathdrum units.
11. Renewables include Emerald County PUD's Short Mountain; and Washington Water Power's Kettle Falls.
12. Cogeneration includes Eugene Water and Electric Board's WEYCO Energy Center; Snohomish County PUD's Scott Paper; and Portland General Electric's Coyote Springs. Longview Fibre output is sold outside the region to WAPA.
13. Imports include exchange energy to BPA from the cities of Anaheim and Riverside; exchange energy from the M-S-R Public Power Agency after their surplus firm sale converts to a capacity/energy exchange beginning November 1, 2009; deferred energy returns from Sacramento Municipal Utility District and San Diego Gas and Electric; exchange energy returned from San Diego Gas and Electric; power from Pacific Power and Light's Wyoming Division to serve BPA's Southern Idaho load; Power purchases from Basin Electric Cooperative and Powerex (TransAlta); Pacific Power and Light transfers from their Wyoming division and seasonal power exchange deliveries to Portland General Electric from Southern California Edison; power sale

deliveries to Puget Sound Power and Light from BC Hydro, and seasonal power exchange deliveries from Pacific Gas & Electric; Utah Power Company's intra-company transfer; seasonal power exchange deliveries to Washington Water Power from Pacific Gas and Electric; and power deliveries to Seattle City Light from BC Hydro for Ross replacement, and seasonal power exchange deliveries from Northern California Public Agencies.

14. Resource acquisitions are resources BPA has identified and contracted for future purchase. When new Federal resource acquisitions are contracted for and/or on-line, they will be included in the loads and resources balance.
15. Non-utility generation (NUG) resources include generation provided to utilities by independent power producers and resources included under the Public Utility Regulatory Policies Act (PURPA). This study included 180 Individual NUGs.
16. Hydro, small thermal and miscellaneous resources, and combustion turbine reserve requirements are estimated at 5 percent of the capacity of these resources for all utilities in the region.
17. Large thermal reserves requirements are estimated at 15 percent of the total capacity of the Pacific Power and Light thermal import into the region plus the large thermal resources owned by utilities in the region.
18. Federal spinning reserves equal the reserve generating capacity maintained to provide a regulating margin for the automatic generation and frequency control of power generation.
19. Direct service industry reserve requirements are estimated at one-third of the industrial firm load, or the sum of the reserve requirements for Federal hydro, small thermal and miscellaneous resources, combustion turbines, and large thermal, whichever is smaller.
20. Hydro maintenance is the sum of individual Federal system, public agency, and IOU hydro project maintenance, based on the average of the 1983-84 through 1988-89 schedules submitted to the Northwest Power Pool.
21. Extreme weather adjustment is the sum of all utility load responses with Pacific Northwest cold weather, and has a 5 percent chance of being exceeded.

TABLE 2: FEDERAL SYSTEM

SHEET 1 OF 2

SUMMARY OF FEDERAL SYSTEM LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

		M E D I U M L O A D S									
		O P E R A T I N G Y E A R									
		1994-95	1995-96	1996-97	1997-98	1998-99	1999- 0	2000- 1	2001- 2	2002- 3	2003- 4
MEGAWATTS		AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
LOADS											
1	FEDERAL AGENCIES	153	154	155	156	157	158	159	160	160	161
2	FEDERAL & GEN PUBLIC LOSSES	172	175	170	173	174	174	176	178	180	181
3	USBR	67	67	67	67	67	67	67	68	68	68
4	DSI ALUMINUM FIRM	2019	1982	1815	1811	1808	1799	1778	1662	1651	1640
5	DSI NON-ALUM FIRM	175	198	217	215	198	179	162	162	162	162
6	DSI FIRM LOSSES	62	61	57	57	56	56	55	51	51	51
7	SM & NON GEN PUB PURCH 1/	3234	3282	3348	3413	3481	3540	3579	3615	3654	3699
8	FIRM SYSTEM LOAD	5882	5919	5829	5892	5941	5973	5976	5896	5926	5962
TRANSFERS OUT											
9	EXPORTS 2/	278	276	265	261	381	544	543	541	619	775
10	CONTRACTS OUT 3/	621	596	350	367	367	367	366	341	341	341
11	CSPE TO WEST GROUP UTIL 4/	275	263	251	236	178	102	98	94	62	0
12	GEN PUBLIC AGEN PURCH 5/	1762	1825	1933	1983	2051	2119	2159	2198	2248	2307
13	GEN PRIVATE UTIL PURCH 6/	0	0	0	0	0	0	0	0	0	0
14	FED DIVERSITY 7/	0	0	0	0	0	0	0	0	0	0
15	FIRM LOADS	8818	8879	8628	8739	8918	9105	9142	9070	9196	9385
16	DSI ALUM TOP QUARTILE 8/	532	661	605	604	603	600	593	554	550	547
17	DSI NON-ALUMINUM TQ 8/	58	66	72	71	66	60	54	54	54	54
18	TOP QUARTILE LOSSES 8/	17	20	19	19	19	19	18	17	17	17
19	TOTAL LOADS	9424	9626	9324	9433	9605	9783	9806	9695	9817	10002
RESOURCES											
20	REGULATED HYDRO	7391	7391	7391	7391	7414	7414	7414	7414	7414	7414
21	INDEPENDENT HYDRO	298	298	298	298	298	298	298	298	298	298
22	MAY WATER BUDGET 9/	-265	-265	-265	-265	-265	-265	-265	-265	-265	-265
23	SUS. PKNG. ADJUSTMENT 10/	0	0	0	0	0	0	0	0	0	0
24	CAN. ENT. NON-FED(CSPE) 11/	58	55	53	50	38	23	22	21	14	0
25	CAN. ENT. NON-FED(CNDA) 12/	0	0	0	4	31	68	67	67	85	119
26	RESTORATION 13/	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
27	TOTAL HYDRO	7456	7453	7451	7452	7490	7512	7510	7509	7520	7540
28	SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
29	COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
30	RENEWABLES	0	0	0	0	0	0	0	0	0	0
31	COGENERATION	0	0	0	0	0	0	0	0	0	0
32	IMPORTS 14/	384	211	176	101	101	101	101	101	101	101
33	CONTRACTS IN 15/	254	198	207	223	224	223	221	245	245	245
34	LARGE THERMAL 16/	715	747	751	751	751	751	751	751	751	751
35	RESOURCE ACQUISITIONS 17/	0	0	0	0	0	0	0	0	0	0
36	TOTAL RESOURCES	8809	8609	8585	8527	8566	8587	8583	8606	8617	8637

TABLE 2: FEDERAL SYSTEM (CONTINUED)

SUMMARY OF FEDERAL SYSTEM LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
 UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

		M E D I U M L O A D S									
		OPERATING YEAR									
		1993 WHITEBOOK: 12/19/93 RUN DATE: 01/19/94									
MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
37	HYD, SM THRM & MISC RES 18/	0	0	0	0	0	0	0	0	0	0
38	LARGE THERMAL RESERVES 19/	0	0	0	0	0	0	0	0	0	0
39	SPINNING RESERVES 20/	0	0	0	0	0	0	0	0	0	0
40	DSI RESERVES 21/	0	0	0	0	0	0	0	0	0	0
41	FEDERAL HYDRO MAINT 22/	0	0	0	0	0	0	0	0	0	0
42	NET RESOURCES	8809	8609	8585	8527	8566	8587	8583	8606	8617	8637
43	FIRM SURPLUS/DEFICIT	-9	-270	-43	-212	-352	-518	-559	-464	-579	-748
44	TOTAL SURPLUS/DEFICIT	-615	-1017	-739	-906	-1039	-1196	-1223	-1089	-1200	-1365
45	EXTREME WEATHER ADJ. 23/	0	0	0	0	0	0	0	0	0	0
46	FIRM S/D W/EXT WEATHER ADJ.	-9	-270	-43	-212	-352	-518	-559	-464	-579	-748
47	TOTAL S/D W/EXT WTHR. ADJ.	-615	-1017	-739	-906	-1039	-1196	-1223	-1089	-1200	-1365
48	POSS FED EXT WTHR. OBLG 24/	0	0	0	0	0	0	0	0	0	0
49	FIRM S/D W/EXT WTHR. OBLIG	-9	-270	-43	-212	-352	-518	-559	-464	-579	-748
50	TOTAL S/D W/EXT WTHR. OBLIG	-615	-1017	-739	-906	-1039	-1196	-1223	-1089	-1200	-1365

- NOTE: 1. BPA SURPLUS POWER SALES CONTRACTS WITH THE PSW ARE SHOWN AS POWER SALES UNTIL THEY EXPIRE.
2. BPA SURPLUS POWER SALES CONTRACT WITH PSP&L IS SHOWN AS A POWER SALE THROUGH JUNE 30, 2001. THE CONTRACT THEN CONVERTS TO A SEASONAL POWER EXCHANGE WHICH EXPIRES JULY 1, 2008.
3. THE FOLLOWING BPA CONTRACTS ARE RESOURCE OPTIONS AND NOT INCLUDED IN THIS ANALYSIS.
- A. BGP TO BPA, SUPPLEMENTAL ENERGY
 - B. SCE TO BPA, SUPPLEMENTAL ENERGY
 - C. SCE TO BPA, OPTION ENERGY

FEDERAL SYSTEM FOOTNOTES

Federal Table 2

1. BPA's small and nongenerating public agencies' purchases are requirements these agencies place on BPA under their power sales contracts and BPA's partnership program. BPA's obligation is each agency's net firm load requirement not served by its own dedicated resources.
2. BPA's exports include surplus firm power sales to the cities of Burbank, Glendale, and Pasadena, and to Southern California Edison; BPA's surplus firm power sale to M-S-R Power agency, which converts to a capacity sale on November 1, 2009; BPA's capacity contracts with the cities of Anaheim and Riverside; BPA's capacity for exchange energy with deferred return with the Sacramento Municipal Utility District and San Diego Gas and Electric; BPA's contract with BC Hydro for Canadian Entitlement beginning April 1, 1998; and BPA's Northwest-Southwest Intertie losses.
3. BPA's contracts out include its contracts of Canadian Entitlement capacity and supplemental capacity to Pacific Northwest public agencies and IOUs, which expire March 31, 2003; BPA's contracts with Clark County PUD and other public agencies (Packwood Lake); BPA's WNP-1 obligation contracts with Montana Power Company, Pacific Power and Light, Portland General Electric, Puget Sound Power and Light, and Washington Water Power; BPA's WNP-3 settlement contracts with Pacific Power and Light, Portland General Electric, Puget Sound Power and Light, and Washington Water Power; BPA's power transfer through Pacific Power and Light's system to serve BPA's Southern Idaho load; BPA's capacity sale with Montana Power Company; BPA's surplus firm power sale to Puget Sound Power and Light, which converts to a seasonal power exchange in OY 2001-02; BPA's surplus firm capacity sale to Washington Water Power; BPA's bridge capacity sale to Pacific Power and Light through July 31, 1995; and BPA's Baker Head loss replacement with Puget Sound Power and Light.
4. Columbia Storage Power Exchange (CSPE) is the sale of the Canadian share of downstream benefits under the Columbia River Treaty with Canada to a group of Northwest utilities, expiring April 1, 2003.
5. BPA's generating public agencies' purchases are requirements which these agencies place on BPA under their power sales contracts and BPA's partnership program. BPA's obligation is each agency's net firm load requirement not served by its own dedicated resources. These contracts actually expire June 30, 2001; however, they are assumed to remain in effect through the 20-year study period.
6. Generating private utility purchase is the contracted peak and energy requirement placed on the Federal system under the IOUs' power sales contracts with BPA.

Portland General Electric is purchasing capacity through June 30, 1999. These contracts actually expire June 30, 2001; however, they are assumed to remain in effect through the 10-year study period.

7. Federal diversity is a percentage reduction applied to the Federal system non-coincidental peak utility requirements. This is due to the fact that all peaking electrical loads do not occur simultaneously throughout the region.
8. DSIs' aluminum and nonaluminum top quartile load and associated line losses are BPA's interruptible loads.
9. May Water Budget is the energy loss due to the overgeneration which may be unusable as a firm resource on the Federal system. This is a new adjustment due to the use of a 42-month critical period average hydro number rather than the 39-month critical period average hydro number used in last year's study.
10. Sustained peaking adjustment is a percentage reduction applied to the Federal hydro system to meet a capacity load of 50 hours per week. This adjustment also includes reductions for Federal hydro maintenance, spinning reserves, forced outage reserves, and summer flow augmentation on the Lower Snake River and John Day hydro projects.
11. Canadian Entitlement Return non-Federal to the Columbia River Storage Exchange (CSPE) reflects the public agencies' and IOUs' obligation of Canadian Entitlement allocation to the Northwest entities of the CSPE, which expires March 31, 2003.
12. Canadian Entitlement Return non-Federal to Canada reflects the Federal system, public agencies', and IOUs' obligation of Canadian Entitlement allocation to Canada, which begins April 1, 1998.
13. Restoration adjusts for the losses and gains of the hydro system due to Canadian storage under the terms of the Pacific Northwest Coordination Agreement. It is an obligation to those utilities that gained generation from the addition of Canadian storage, and a resource gain to utilities that lost generation from Canadian storage.
14. Imports includes exchange energy to BPA from the cities of Anaheim and Riverside; exchange energy from the M-S-R Public Power Agency after its surplus firm sale converts to a capacity/energy exchange beginning November 1, 2009; exchange energy returned from San Diego Gas and Electric; deferred energy return from Sacramento Municipal Utility District and San Diego Gas and Electric; power purchases from Basin Electric Cooperative and Trans Alta; and power from Pacific Power and Light's Wyoming Division to serve BPA's Southern Idaho load.
15. Federal contracts in includes exchange energy to BPA from Montana Power Company; WNP-3 settlement exchange energy from Pacific Power and Light, Portland General Electric, Puget Sound Power and Light, and Washington Water Power; and seasonal power exchange energy from Puget Sound Power and Light beginning in OY 2001-02; and power purchases from Puget Sound Power and Light and Montana Power Company.
16. Federal large thermal includes the generation from WNP-2, operated by WPPSS.

17. Resource acquisitions are resources BPA has identified and contracted for future purchase. When new Federal resource acquisitions are contracted for and/or on-line, they will be included in the loads and resources balance.
18. Hydro, small thermal and miscellaneous resources, and combustion turbine reserve requirements are estimated at 5 percent of the Federal capacity of these resources.
19. Large thermal reserve requirements are estimated at 15 percent of the WNP-2 nuclear project.
20. Federal spinning reserve is the reserve generating capacity maintained to provide a regulating margin for the automatic generation and frequency control of power generation.
21. Direct service industrial reserve requirements are one-third of the industrial firm load, or the sum of the reserve requirements for Federal hydro, small thermal and miscellaneous resources, combustion turbines, and large thermal resources, whichever is smaller.
22. Hydro maintenance is the sum of all Federal hydro project maintenance based on the mean of the 1983-84 through 1988-89 schedules submitted to the Northwest Power Pool.
23. Extreme weather adjustment for BPA's directly served loads.
24. Possible Federal extreme weather adjustment is the possible load on BPA by public agencies customers having the right to place this obligation on BPA.

TABLE 3: TOTAL PUBLIC AGENCIES

SUMMARY OF PUBLIC AGENCIES LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
 UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT
 LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS											
1	SYSTEM LOADS	7263	7347	7521	7642	7769	7858	7940	8017	8093	8171
2	EXPORTS 1/	55	74	82	82	82	82	82	82	82	82
3	CONTRACTS OUT 2/	83	83	83	83	83	82	83	77	77	69
4	TOTAL LOADS	7401	7504	7686	7807	7934	8022	8105	8176	8252	8322
RESOURCES											
5	REGULATED HYDRO	1672	1689	1689	1689	1700	1701	1713	1726	1739	1751
6	INDEPENDENT HYDRO	91	91	98	98	98	98	98	98	98	98
7	MAY WATER BUDGET 3/	0	0	0	0	0	0	0	0	0	0
8	CAN. ENT. RETURN (CSPE) 4/	-19	-17	-15	-16	-11	-6	-6	-6	-4	0
9	CAN. ENT. RETURN (CANADA) 5/	0	0	0	-2	-10	-21	-21	-21	-27	-37
10	RESTORATION 6/	2	2	2	2	2	2	2	2	2	2
11	TOTAL HYDRO	1746	1765	1774	1771	1779	1774	1786	1799	1808	1814
12	SMALL THERMAL & MISC 7/	0	0	0	0	0	0	0	0	0	0
13	COMBUSTION TURBINES 8/	0	0	0	0	0	0	0	0	0	0
14	CSPE PURCHASE 9/	137	132	125	118	89	51	49	46	31	0
15	RENEWABLES 10/	2	3	3	3	4	4	4	4	4	4
16	COGENERATION 11/	14	35	45	45	45	45	45	45	45	45
17	IMPORTS 12/	35	36	36	36	49	36	36	36	36	36
18	CONTRACTS IN 13/	84	79	74	74	73	66	66	66	66	52
19	LARGE THERMAL 14/	285	280	280	333	332	333	332	326	326	333
20	NON-UTILITY GENERATION 15/	119	114	114	114	114	114	114	114	115	114
21	TOTAL RESOURCES	2422	2444	2451	2494	2485	2423	2432	2436	2431	2398
22	HYD, SM THRM & MISC RES 16/	0	0	0	0	0	0	0	0	0	0
23	LARGE THERMAL RESERVES 17/	0	0	0	0	0	0	0	0	0	0
24	PUBLIC HYDRO MAINT 18/	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
25	NET RESOURCES	2419	2441	2448	2491	2482	2420	2429	2433	2428	2395
26	SURPLUS/DEFICIT	-4982	-5063	-5238	-5316	-5452	-5602	-5676	-5743	-5824	-5927
27	DEDICATED RESOURCES 19/	2239	2249	2253	2255	2243	2205	2215	2221	2215	2195
28	BPA PWR SLE CNTRCT PRCH 20/	4996	5107	5281	5396	5532	5659	5738	5813	5902	6006
29	SURPLUS/DEFICIT W/PURCHASE	14	44	43	80	80	57	62	70	78	79
30	EXTREME WEATHER ADJSTMT 21/	0	0	0	0	0	0	0	0	0	0
31	SURPLUS/DEFICIT W/EXTRM WX	-11	19	18	55	55	32	37	45	53	54
32	POSSIBLE OBLIG ON BPA 22/	0	0	0	0	0	0	0	0	0	0
33	SURPLUS/DEFICIT AFTR BPA OB	-11	19	18	55	55	32	37	45	53	54

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PUBLIC AGENCIES FOOTNOTES

Total Public Agencies Table 3

1. Public agencies' exports includes the City of Idaho Falls' contract with Utah Power Company for Gem State Hydro; Seattle City Light's seasonal power exchange deliveries to Northern California Public Agencies; and Tacoma Generating Utilities' power sale to the Western Area Power Administration (WAPA).
2. Public agencies' contracts out include Chelan County PUD's capacity deliveries to Douglas County PUD and Portland General Electric; Colockum's capacity deliveries to Chelan County PUD and Pacific Power and Light; Douglas County PUD' exchange energy returned to Chelan County PUD; Grant County PUD's power sales to Pacific Power and Light; Northern Wasco PUD's sale to Puget Sound Power and Light; other small and non-generating public agencies power sales to Puget Sound Power and Light; Pend Oreille County PUD's power sale to Seattle City Light; Seattle City Light's seasonal power exchange deliveries to Idaho Power Company and Tacoma Generating Utilities and power sale to Pend Oreille County PUD; Snohomish County PUD's power sale to Puget Sound Power and Light; and Tacoma Generating Utilities' seasonal power exchange deliveries to Seattle City Light.
3. May Water Budget is the energy loss due to the overgeneration which may be unusable as a firm resource on the Public Utilities systems. This is a new adjustment due to the use of a 42-month critical period average hydro number rather than the 39-month critical period average hydro number used in last years study. The overgeneration on the Public Utility systems was deemed to be usable during the month of May. Therefore, the loss due to the overgeneration was set to zero for the Public Utilities.
4. Canadian Entitlement Return non-Federal to the Columbia River Power Exchange (CSPE) reflects the public agencies' obligation of Canadian Entitlement allocation to CSPE, which expires April 1, 2003.
5. Canadian Entitlement Return non-Federal to Canada reflects the public agencies' obligation of Canadian Entitlement allocation to Canada, which begins in April 1, 1998.
6. Restoration is the obligation of the public agencies that gained generation from the addition of Canadian storage to utilities that lost generation from it, according to the terms of the Pacific Northwest Coordination Agreement.
7. Public agencies' small thermal and miscellaneous resources include the City of Idaho Falls' Diesel plant; Idaho's Power Company's Energy Management Systems; Tacoma Generating Utilities' Steam Plant No. 2; and Seattle City Light's Boundary.
8. There are no regional public agency combustion turbines.

9. Columbia Storage Power Exchange (CSPE) is the sale to Northwest utilities through April 1, 2003 of the Canadian share of downstream benefits under the Treaty with Canada.
10. Public agencies' renewable resources include Emerald PUD's Short Mountain.
11. Public agencies' cogeneration includes Eugene Water and Electric Board's Weyerhaeuser WEYCO Energy Center; and Snohomish County PUD's Scott Paper.
12. Public agencies' imports include power deliveries to Seattle City Light from BC Hydro for Ross replacement, and seasonal power exchange deliveries from Northern California Public Agencies.
13. Public agencies' contracts in include Chelan County PUD capacity receipts from Colockum, and exchange energy from Douglas County PUD and Portland General Electric; Clark County PUD and other small and non-generating public agencies power receipts from BPA for Packwood Lake; Colockum exchange energy from Pacific Power and Light; Douglas County PUD capacity receipts from Chelan County PUD; Oregon Trail Cooperative's replacement power sale from Idaho Power Company; Pend Oreille County PUD power sales receipts from Seattle City Light and Washington Water Power; Seattle City Light's power sale receipts from Pend Oreille County PUD and seasonal power exchanges from Idaho Power Company and Tacoma Generating Utilities; and Tacoma Generating Utilities' seasonal energy exchange from Seattle City Light.
14. Public agencies' large thermal includes Seattle City Light, Snohomish County PUD's, and Tacoma Generating Utilities share of Centralia, and Grays Harbor's share of Centralia starting OY 1997-98.
15. Public agencies' Non-Utility Generating resources from independent power producers and qualified facilities under the Public Utilities Regulatory Act (PURPA). These resources are summarized for the following public agencies: Chelan County PUD, Cowlitz County PUD, Douglas County PUD, Eugene Water and Electric Board, Grant County PUD, Pend Oreille County PUD, Seattle City Light, Small and Non-Generating Utilities, Snohomish County PUD, and Tacoma Generating Utilities.
16. Hydro, small thermal and miscellaneous resources, and combustion turbine reserve requirements are 5 percent of the public agencies' share of capacity from these resources.
17. Large thermal reserve requirements are 15 percent of the public agencies' share of Pacific Northwest thermal resources.
18. Hydro maintenance is the sum of all public agency hydro project maintenance based on the mean of the 1983-84 through 1988-89 schedules submitted to the Northwest Power Pool.
19. Dedicated resources are the actual resources used in the operating year prior to the signing of the Pacific Northwest Electric Power Planning and Conservation Act (Public Law 96-501) and other resources the utility dedicates to serve its load.
20. Purchases from BPA include public agencies' firm power purchases under their power sales contracts and BPA's partnership program. This requirement is defined as the sum of the differences between each utility's firm load and its dedicated resources.

21. **Extreme Weather adjustment for all public utilities for severe cold weather in the months of November through February.**
22. **Possible extreme weather adjustment obligation on BPA for those public utilities having the right to place the obligation on BPA.**

TABLE 4: TOTAL PRIVATE UTILITIES

SUMMARY OF PRIVATE UTILITIES LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS											
1	SYSTEM LOADS	9951	10105	10248	10386	10522	10662	10805	10930	11070	11211
2	EXPORTS	1/ 848	832	821	822	818	779	770	772	770	744
3	CONTRACTS OUT	2/ 798	662	572	561	539	533	518	517	488	353
4	TOTAL LOADS	11597	11599	11641	11769	11879	11974	12093	12219	12328	12308
RESOURCES											
5	REGULATED HYDRO	2840	2814	2827	2828	2845	2844	2831	2814	2801	2789
6	INDEPENDENT HYDRO	585	577	588	588	588	588	587	583	584	585
7	MAY WATER BUDGET	3/ 0	0	0	0	0	0	0	0	0	0
8	CAN. ENT. RETURN (CSPE)	4/ -34	-33	-33	-30	-24	-15	-14	-13	-9	0
9	CAN. ENT. RETURN (CANADA)	5/ 0	0	0	-2	-18	-42	-41	-41	-51	-72
10	RESTORATION	6/ 30	30	30	30	30	30	30	30	30	30
11	TOTAL HYDRO	3421	3388	3412	3414	3421	3405	3393	3373	3355	3332
12	SMALL THERMAL & MISC	7/ 48	41	51	51	50	50	50	46	47	47
13	COMBUSTION TURBINES	8/ 485	485	485	488	585	585	585	585	585	585
14	CSPE PURCHASE	9/ 138	131	126	118	89	51	49	48	31	0
15	RENEWABLES	10/ 40	40	40	40	39	39	39	40	40	40
16	COGENERATION	11/ 0	200	220	220	220	220	220	220	220	220
17	IMPORTS	12/ 1518	1401	1391	1385	1323	1334	1345	1270	1300	1297
18	CONTRACTS IN	13/ 1083	1013	702	691	671	670	657	602	574	466
19	LARGE THERMAL	14/ 3417	3386	3408	3390	3384	3379	3376	3357	3344	3374
20	NON-UTILITY GENERATION	15/ 864	915	944	943	935	935	935	902	877	878
21	TOTAL RESOURCES	11014	11000	10779	10740	10717	10668	10649	10443	10373	10239
22	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0
23	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0
24	PRIVATE HYDRO MAINT	18/ -8	-8	-8	-8	-8	-8	-8	-8	-8	-8
25	NET RESOURCES	11006	10992	10770	10731	10708	10660	10640	10435	10364	10231
26	SURPLUS/DEFICIT	-592	-607	-871	-1037	-1170	-1314	-1453	-1784	-1963	-2077
27	DEDICATED RESOURCES	19/ 7090	7106	7012	6979	6902	6892	6888	6788	6766	6760
28	BPA PWR SLE CNTRCT PRCH	20/ 0	0	0	0	0	0	0	0	0	0
29	SURPLUS/DEFICIT W/PURCHASE	-592	-607	-871	-1037	-1170	-1314	-1453	-1784	-1963	-2077
30	EXTREME WEATHER ADJSTMT	21/ 0	0	0	0	0	0	0	0	0	0
31	SURPLUS/DEFICIT W/EXTRM WX	-613	-628	-892	-1058	-1190	-1334	-1472	-1802	-1983	-2097

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PRIVATE UTILITY FOOTNOTES

Total Private Utilities Table 4

1. Private utilities' exports include Idaho Power Company's power sales to Sierra Pacific, Utah Associated Municipal Power System, the Cities of Azuza-Banning-Colton, and the City of Washington, Utah; Montana Power Company's power sales to the Los Angeles Department of Water and Power; Pacific Power and Light's transfer to its Northern California load, power sales to California Department of Water Resources, Pacific Gas and Electric, Southern California Edison, Sacramento Municipal Utility District, and Western Area Power Administration; Portland General Electric's power sales to the cities of Burbank and Glendale, Southern California Edison, and the Western Area Power Administration, and seasonal power exchange deliveries to Southern California Edison; Puget Sound Power and Light's seasonal power exchange deliveries to Pacific Gas and Electric; and Washington Water Power's seasonal power exchange deliveries to Pacific Gas and Electric.
2. Private utilities' contracts out include Idaho Power Company's replacement power sale to Oregon Trail Cooperative, seasonal power exchange deliveries to Seattle City Light and Montana Power Company, and a power sale to Montana Power Company; Montana Power Company's power sales to BPA, Pacific Power and Light, Puget Sound Power and Light and Washington Water Power, seasonal power exchange deliveries to Idaho Power Company, and exchange energy returned to BPA; Pacific Power and Light's power sale to Puget Sound Power and Light, WNP-3 settlement energy to BPA, and exchange energy to Colockum; Portland General Electric's contract to Pacific Power and Light for Cove Replacement and exchange energy returned to Chelan County PUD, and WNP-3 settlement energy to BPA; Puget Sound Power and Light's power sales to BPA, seasonal power exchange deliveries to BPA (beginning July 1, 2001) and WNP-3 settlement energy to BPA; and Washington Water Power's power sales to Pacific Power and Light, Pend Oreille County PUD, and Puget Sound Power and Light, capacity sale to Portland General Electric, replacement power sale to Pacific Power and Light (Sandpoint), and WNP-3 settlement energy to BPA.
3. May Water Budget is the energy loss due to the overgeneration which may be unusable as a firm resource on the Private Utility systems. This is a new adjustment due to the use of a 42-month critical period average hydro number rather than the 39-month critical period average hydro number used in last years study. The overgeneration on the Private Utility systems was deemed to be usable during the month of May. Therefore, the loss due to the overgeneration was set to zero for the Private Utilities.

4. Canadian Entitlement Return non-Federal to the Columbia River Power Exchange (CSPE) reflects the private utilities' obligation of Canadian Entitlement allocation to CSPE, which expires April 1, 2003.
5. Canadian Entitlement Return non-Federal to Canada reflects the private utilities' obligation of Canadian Entitlement allocation to Canada, which begins April 1, 1998.
6. Restoration is the obligation of the private utilities that gained generation from the addition of Canadian storage to utilities that lost generation from it, according to the terms of the Pacific Northwest Coordination Agreement.
7. Private utilities' existing small thermal and miscellaneous resources include Idaho Power Company's Energy Management Systems; Puget Sound Power and Light's Shuffleton and Crystal Mountain; Portland General Electric's Summit plants; and Montana Power Company's portions of Bird and Corette in the region.
8. Private utilities' combustion turbines include Portland General Electric's Bethel and Beaver; Puget Sound Power and Light's Whidbey Island, Whitehorn, Fredrickson, and Fredonia; Washington Water Power's Northeast and Rathdrum; and Idaho Power Company's Wood River.
9. Columbia Storage Power Exchange (CSPE) is the sale to Northwest utilities through April 1, 2003 of the Canadian share of downstream benefits under the Treaty with Canada.
10. Private utilities' renewable resources include Washington Water Power's Kettle Falls.
11. Private utility cogeneration resources include Portland General Electric's Coyote Springs.
12. Private utilities' imports include Pacific Power and Light transfers from its Wyoming division and service to Southern Idaho loads for BPA; Portland General Electric seasonal power exchange from the Southern California Edison; Puget Sound Power and Light power sale receipts from BC Hydro, seasonal power exchange receipts from Pacific Gas and Electric; Utah Power Company's intra-company transfer; Washington Water Power seasonal power exchange receipts from Pacific Gas and Electric.
13. Private utilities' contracts in include Idaho Power Company's seasonal energy exchange receipts from Montana Power Company and Seattle City Light; Montana Power Company capacity receipts, and power sales and seasonal power exchange receipts from Idaho Power Company; Pacific Power and Light capacity receipts from BPA and Colockum, power sales receipts from BPA for BPA's Southern Idaho load, power sales from Grant County PUD, Montana Power Company and Washington Water Power, Cove Replacement from Portland General Electric, and Sandpoint Replacement Power from Washington Water, WNP 1 obligation receipts from BPA, and WNP 3 settlement receipts from BPA; Portland General Electric capacity receipts from Chelan County PUD; WNP 1 obligation from BPA, and WNP 3 settlement from BPA; Puget Sound Power & Light capacity receipts from BPA, power sales receipts from BPA (Baker Head loss), Montana Power Company, other small and non-generating public agencies, Northern Wasco PUD, Pacific Power and Light, Snohomish County PUD, and Washington Water Power; WNP 1 obligation receipts

from BPA, and WNP 3 settlement receipts from BPA; Washington Water Power capacity receipts from BPA, power sales receipts from Montana Power Company, WNP 1 obligation from BPA, and WNP 3 settlement from BPA.

14. Private utilities' large thermal includes the private utilities' shares of Centralia, Jim Bridger, Colstrip 1 and 2, Colstrip 3 and 4, Boardman Coal, and Valmy; and Puget Sound Power and Light's purchase of Grays Harbor's share of Centralia through OY 1996-97.
15. Private utilities' non-utility generating resources from independent power producers and qualifying facilities under the Public Utilities Regulatory Act (PURPA). These resources are summarized for the following private utilities: Idaho Power Company, Montana Power Company, Pacific Power and Light, Portland General Electric, Puget Sound Power and Light, and Washington Water Power.
16. Hydro, small thermal and miscellaneous resources, and combustion turbine reserve requirements are 5 percent of the private utilities' share in the capacity of these resources.
17. Large thermal reserve requirements are 15 percent of the private utilities' share of Pacific Northwest thermal resources and the Pacific Power and Light import from Wyoming.
18. Hydro maintenance is the sum of all private utility hydro project maintenance based on the mean of the 1983-84 through 1988-89 schedules submitted to the Northwest Power Pool.
19. Dedicated resources are the actual resources used in the operating year prior to the signing of the Pacific Northwest Electric Power Planning and Conservation Act (Public Law 96-501) and other resources the utility dedicates to serve its load.
20. Purchases from BPA include the private utilities' contracted firm energy or firm capacity purchases under their power sales contracts and BPA's partnership program. Portland General Electric Company is purchasing 150 megawatts of capacity through June 30, 1999.
21. Extreme Weather adjustment for all private utilities for severe cold weather in the months of November through February.
22. Possible extreme weather adjustment obligation on BPA for those private utilities having the right to place the obligation on BPA. No private utilities are assumed to place this obligation on BPA.

SECTION III: Annual Energy Analysis
INDIVIDUAL UTILITY LOAD AND RESOURCE BALANCES

SECTION III - INDIVIDUAL UTILITY LOAD AND RESOURCE BALANCES

Annual Energy Analysis

Section III: Individual Utility Load and Resource Balances

Private Utilities

Idaho Power Company	U-1	TA-2-46
Montana Power Company	U-2	TA-2-47
Pacific Power and Light Company	U-3	TA-2-48
Portland General Electric Company	U-4	TA-2-49
Puget Sound Power and Light Company	U-5	TA-2-50
Utah Power Company	U-6	TA-2-51
Washington Water Power Company	U-7	TA-2-52

Public Agencies

Chelan County PUD #1	U-8	TA-2-53
Cowlitz County PUD #1	U-9	TA-2-54
Douglas County PUD #1	U-10	TA-2-55
Eugene Water and Electric Board	U-11	TA-2-56
Grant County PUD #2	U-12	TA-2-57
Pend Oreille County PUD #1	U-13	TA-2-58
Seattle City Light	U-14	TA-2-59
Snohomish County PUD #1	U-15	TA-2-60
Tacoma Generating Utilities	U-16	TA-2-61
Small and Nongenerating Public Agencies	U-17	TA-2-62
Total Generating Public Agencies		
Total Generating Public Agencies	U-18	TA-2-63

TABLE U-1

IDAHO POWER COMPANY
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

O P E R A T I N G Y E A R

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	1534	1555	1585	1618	1648	1672	1698	1717	1736	1751
2 EXPORTS	109	110	110	110	105	66	55	55	52	26
3 CONTRACTS OUT	88	78	36	29	22	15	15	16	16	1
4 TOTAL LOADS	1731	1743	1731	1757	1775	1753	1768	1788	1804	1778
RESOURCES										
5 REGULATED HYDRO	530	530	530	530	531	531	531	531	531	531
6 INDEPENDENT HYDRO	273	273	273	273	273	273	273	273	273	273
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	803	803	803	803	804	804	804	804	804	804
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	1	1	1	1	1	1	1	1	1	1
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	27	26	26	20	14	14	14	14	14	6
19 LARGE THERMAL	811	817	806	817	816	811	811	817	805	816
20 NON-UTILITY GENERATION	93	135	157	157	157	157	157	157	157	157
21 TOTAL RESOURCES	1735	1782	1793	1798	1792	1787	1787	1793	1781	1784
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	1735	1782	1793	1798	1792	1787	1787	1793	1781	1784
26 SURPLUS/DEFICIT	4	39	62	41	17	34	19	5	-23	6
27 DEDICATED RESOURCES	1358	1405	1414	1427	1434	1474	1485	1490	1481	1519
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	4	39	62	41	17	34	19	5	-23	6
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	4	39	62	41	17	34	19	5	-23	6

TABLE U-2

MONTANA POWER COMPANY
REGIONAL LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	337	339	340	341	339	338	338	339	341	343
2 EXPORTS	91	91	91	91	91	91	91	91	91	91
3 CONTRACTS OUT	195	143	112	107	101	101	99	72	72	72
4 TOTAL LOADS	623	573	543	539	531	530	528	502	504	506
RESOURCES										
5 REGULATED HYDRO	59	50	63	64	66	66	66	61	61	61
6 INDEPENDENT HYDRO	51	43	54	54	54	54	53	49	50	51
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	6	6	6	6	6	6	6	6	6	6
11 TOTAL HYDRO	116	99	123	124	126	126	125	116	117	118
12 SMALL THERMAL & MISC	45	38	48	48	47	47	47	43	44	44
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	130	116	13	6	0	0	0	0	0	0
19 LARGE THERMAL	338	315	349	350	346	345	344	332	334	334
20 NON-UTILITY GENERATION	16	26	32	32	32	32	32	29	29	30
21 TOTAL RESOURCES	645	594	565	560	551	550	548	520	524	526
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	645	594	564	560	550	550	547	520	523	526
26 SURPLUS/DEFICIT	21	21	21	21	20	20	19	18	20	20
27 DEDICATED RESOURCES	370	328	288	288	287	287	286	290	292	295
28 BPA PHR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	21	21	21	21	20	20	19	18	20	20
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	21	21	21	21	20	20	19	18	20	20

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TABLE U-3

PACIFIC POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS											
1	SYSTEM LOADS	2293	2341	2400	2447	2495	2540	2589	2624	2661	2702
2	EXPORTS	394	377	366	367	368	369	370	372	373	374
3	CONTRACTS OUT	143	143	208	208	208	208	208	208	206	95
4	TOTAL LOADS	2830	2861	2974	3022	3071	3117	3167	3204	3240	3171
RESOURCES											
5	REGULATED HYDRO	375	375	375	375	382	382	381	382	382	382
6	INDEPENDENT HYDRO	187	187	187	187	187	187	187	187	187	187
7	MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8	CAN. ENT. RETURN (CSPE)	-5	-5	-5	-5	-4	-4	-3	-3	-2	0
9	CAN. ENT. RETURN (CANADA)	0	0	0	0	-3	-7	-6	-6	-8	-11
10	RESTORATION	30	30	30	30	30	30	30	30	30	30
11	TOTAL HYDRO	587	587	587	587	592	588	589	590	589	588
12	SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13	COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14	CSPE PURCHASE	28	26	25	24	18	10	10	9	6	0
15	RENEWABLES	0	0	0	0	0	0	0	0	0	0
16	COGENERATION	0	0	0	0	0	0	0	0	0	0
17	IMPORTS	1021	898	880	869	799	801	802	719	742	732
18	CONTRACTS IN	237	216	196	181	173	173	173	173	173	173
19	LARGE THERMAL	685	676	677	688	687	688	687	678	676	688
20	NON-UTILITY GENERATION	51	51	51	51	51	51	51	51	51	51
21	TOTAL RESOURCES	2609	2454	2416	2400	2320	2311	2312	2220	2237	2232
22	HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23	LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24	HYDRO MAINTENANCE	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
25	NET RESOURCES	2607	2452	2414	2398	2318	2309	2310	2218	2235	2230
26	SURPLUS/DEFICIT	-223	-409	-560	-624	-753	-808	-857	-986	-1005	-941
27	DEDICATED RESOURCES	2443	2304	2287	2286	2214	2205	2206	2114	2131	2126
28	BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0
29	SURPLUS/DEFICIT W/PURCHASE	-223	-409	-560	-624	-753	-808	-857	-986	-1005	-941
30	EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31	SURPLUS/DEFICIT W/EXTRM WX	-223	-409	-560	-624	-753	-808	-857	-986	-1005	-941

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TABLE U-4

PORTLAND GENERAL ELECTRIC
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	2032	2037	2010	1994	1993	2008	2024	2039	2064	2093
2 EXPORTS	182	182	182	182	182	182	182	182	182	182
3 CONTRACTS OUT	61	61	60	71	71	71	71	70	71	71
4 TOTAL LOADS	2275	2280	2252	2247	2246	2261	2277	2291	2317	2346
RESOURCES										
5 REGULATED HYDRO	503	503	503	503	506	506	506	506	506	506
6 INDEPENDENT HYDRO	24	24	24	24	24	24	24	24	24	24
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-9	-8	-8	-8	-6	-4	-4	-4	-3	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	-5	-11	-11	-11	-13	-19
10 RESTORATION	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
11 TOTAL HYDRO	514	515	515	515	515	511	511	511	510	507
12 SMALL THERMAL & MISC	1	1	1	1	1	1	1	1	1	1
13 COMBUSTION TURBINES	381	381	381	383	481	481	481	481	481	481
14 CSPE PURCHASE	48	46	44	41	31	18	17	17	11	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	200	220	220	220	220	220	220	220	220
17 IMPORTS	35	35	35	35	35	35	35	35	35	35
18 CONTRACTS IN	124	119	56	67	67	66	67	67	67	67
19 LARGE THERMAL	529	530	528	529	530	529	529	529	528	530
20 NON-UTILITY GENERATION	28	28	28	28	28	28	28	28	28	28
21 TOTAL RESOURCES	1660	1855	1808	1819	1908	1889	1889	1889	1881	1869
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
25 NET RESOURCES	1658	1853	1806	1817	1906	1887	1887	1887	1879	1867
26 SURPLUS/DEFICIT	-617	-427	-446	-430	-340	-374	-390	-404	-438	-479
27 DEDICATED RESOURCES	678	876	894	893	898	881	880	879	872	859
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-617	-427	-446	-430	-340	-374	-390	-404	-438	-479
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-617	-427	-446	-430	-340	-374	-390	-404	-438	-479

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TABLE U-5

PUGET SOUND POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	2463	2533	2602	2666	2718	2765	2809	2855	2899	2939
2 EXPORTS	47	47	47	47	47	47	47	47	47	47
3 CONTRACTS OUT	90	61	32	32	32	32	32	83	82	83
4 TOTAL LOADS	2600	2641	2681	2745	2797	2844	2888	2985	3028	3069
RESOURCES										
5 REGULATED HYDRO	907	907	907	907	910	909	897	884	871	859
6 INDEPENDENT HYDRO	49	49	49	49	49	49	49	49	49	49
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-17	-17	-17	-15	-13	-7	-7	-6	-4	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	-2	-9	-20	-20	-20	-26	-37
10 RESTORATION	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
11 TOTAL HYDRO	929	929	929	929	927	921	909	897	880	861
12 SMALL THERMAL & MISC	2	2	2	2	2	2	2	2	2	2
13 COMBUSTION TURBINES	49	49	49	50	49	49	49	49	49	49
14 CSPE PURCHASE	48	46	44	41	31	18	17	17	11	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	49	49	49	49	49	49	49	49	49	49
18 CONTRACTS IN	453	448	385	385	385	385	371	317	289	189
19 LARGE THERMAL	692	689	689	644	643	644	644	642	642	644
20 NON-UTILITY GENERATION	610	609	610	609	601	601	601	601	601	601
21 TOTAL RESOURCES	2832	2821	2757	2709	2687	2669	2642	2574	2523	2395
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
25 NET RESOURCES	2829	2818	2754	2706	2684	2666	2639	2571	2520	2392
26 SURPLUS/DEFICIT	229	177	73	-39	-113	-178	-249	-414	-508	-677
27 DEDICATED RESOURCES	1507	1497	1432	1385	1371	1353	1340	1326	1303	1275
28 BPA PHR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	229	177	73	-39	-113	-178	-249	-414	-508	-677
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	229	177	73	-39	-113	-178	-249	-414	-508	-677

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TABLE U-6

UTAH POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

O P E R A T I N G Y E A R

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	388	394	402	407	415	424	434	441	449	456
2 EXPORTS	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	388	394	402	407	415	424	434	441	449	456
RESOURCES										
5 REGULATED HYDRO	0	0	0	0	0	0	0	0	0	0
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	0	0	0	0	0	0	0	0	0	0
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	388	394	402	407	415	424	434	442	449	456
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	388	394	402	407	415	424	434	442	449	456
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	388	394	402	407	415	424	434	442	449	456
26 SURPLUS/DEFICIT	0	0	0	0	0	0	0	1	0	0
27 DEDICATED RESOURCES	0	0	0	0	0	0	0	0	0	0
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	0	0	0	0	0	0	0	1	0	0
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	0	0	0	0	0	0	1	0	0

TABLE U-7

WASHINGTON WATER POWER
LOADS AND RESOURCES

M E D I U M L O A D S

O P E R A T I N G Y E A R

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS											
1	SYSTEM LOADS	904	906	909	913	914	915	913	915	920	927
2	EXPORTS	25	25	25	25	25	24	25	25	25	24
3	CONTRACTS OUT	221	176	124	114	105	106	93	68	41	31
4	TOTAL LOADS	1150	1107	1058	1052	1044	1045	1031	1008	986	982
RESOURCES											
5	REGULATED HYDRO	466	449	449	449	450	450	450	450	450	450
6	INDEPENDENT HYDRO	1	1	1	1	1	1	1	1	1	1
7	MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8	CAN. ENT. RETURN (CSPE)	-3	-3	-3	-2	-1	0	0	0	0	0
9	CAN. ENT. RETURN (CANADA)	0	0	0	0	-1	-4	-4	-4	-4	-5
10	RESTORATION	8	8	8	8	8	8	8	8	8	8
11	TOTAL HYDRO	472	455	455	456	457	455	455	455	455	454
12	SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13	COMBUSTION TURBINES	54	54	54	54	54	54	54	54	54	54
14	CSPE PURCHASE	14	13	13	12	9	5	5	5	3	0
15	RENEWABLES	40	40	40	40	39	39	39	40	40	40
16	COGENERATION	0	0	0	0	0	0	0	0	0	0
17	IMPORTS	25	25	25	25	25	25	25	25	25	25
18	CONTRACTS IN	112	88	26	32	32	32	32	31	31	31
19	LARGE THERMAL	362	359	359	362	362	362	361	359	359	362
20	NON-UTILITY GENERATION	66	66	66	66	66	66	66	36	11	11
21	TOTAL RESOURCES	1145	1100	1038	1047	1044	1038	1037	1005	978	977
22	HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23	LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24	HYDRO MAINTENANCE	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
25	NET RESOURCES	1144	1099	1037	1046	1043	1037	1036	1004	977	976
26	SURPLUS/DEFICIT	-6	-8	-21	-6	-1	-8	5	-4	-9	-6
27	DEDICATED RESOURCES	734	696	697	700	698	692	691	689	687	686
28	BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0
29	SURPLUS/DEFICIT W/PURCHASE	-6	-8	-21	-6	-1	-8	5	-4	-9	-6
30	EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31	SURPLUS/DEFICIT W/EXTRM WX	-6	-8	-21	-6	-1	-8	5	-4	-9	-6

TABLE U-8

CHELAN COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	192	196	205	210	216	219	224	227	231	235
2 EXPORTS	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	3	2	2	2	2	2	2	2	2	2
4 TOTAL LOADS	195	198	207	212	218	221	226	229	233	237
RESOURCES										
5 REGULATED HYDRO	124	141	141	141	142	143	155	168	181	194
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-3	-3	-3	-3	-2	-1	-1	-1	-1	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	-2	-4	-4	-4	-4	-6
10 RESTORATION	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	121	138	138	138	138	138	150	163	176	188
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	3	3	3	2	2	1	1	1	1	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 IMPORTS	0	0	0	0	0	0	0	0	0	0
17 COGENERATION	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	5	5	4	5	5	5	5	4	4	5
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	129	146	145	145	145	144	156	168	181	193
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	129	146	145	145	145	144	156	168	181	193
26 SURPLUS/DEFICIT	-66	-52	-62	-67	-73	-77	-70	-61	-52	-44
27 DEDICATED RESOURCES	193	216	221	225	229	233	247	260	273	283
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-66	-52	-62	-67	-73	-77	-70	-61	-52	-44
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-66	-52	-62	-67	-73	-77	-70	-61	-52	-44
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-66	-52	-62	-67	-73	-77	-70	-61	-52	-44

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TABLE U-9

COWLITZ COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	531	536	549	554	563	568	575	580	585	590
2 EXPORTS	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	531	536	549	554	563	568	575	580	585	590
RESOURCES										
5 REGULATED HYDRO	41	41	41	41	41	41	41	41	41	41
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-1	-1	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	-1	-1
10 RESTORATION	3	3	3	3	3	3	3	3	3	3
11 TOTAL HYDRO	43	43	44	44	44	44	44	44	43	43
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	7	7	6	6	5	3	3	2	1	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	50	50	50	50	49	47	47	46	44	43
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	50	50	50	50	49	47	47	46	44	43
26 SURPLUS/DEFICIT	-481	-486	-499	-504	-514	-521	-528	-534	-541	-547
27 DEDICATED RESOURCES	50	50	50	50	49	47	47	46	44	43
28 BPA PWR SLE CNTRCT PURCH	481	486	499	504	514	521	528	534	541	547
29 SURPLUS/DEFICIT W/PURCHASE	0	0	0	0	0	0	0	0	0	0
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	0	0	0	0	0	0	0	0	0
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	0	0	0	0	0	0	0	0	0	0

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TABLE U-10

DOUGLAS COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	75	74	75	76	78	78	79	80	81	81
2 EXPORTS	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	1	1	1	1	1	1	1	1	1	1
4 TOTAL LOADS	76	75	76	77	79	79	80	81	82	82
RESOURCES										
5 REGULATED HYDRO	104	104	104	104	104	104	104	104	104	104
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-5	-4	-3	-4	-2	-1	-1	-1	-1	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	-2	-5	-5	-5	-6	-8
10 RESTORATION	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	99	100	101	100	100	98	98	98	97	96
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	1	1	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	1	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	101	101	101	100	100	98	98	98	97	96
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	101	101	101	100	100	98	98	98	97	96
26 SURPLUS/DEFICIT	25	26	25	23	21	19	18	17	15	14
27 DEDICATED RESOURCES	100	100	100	99	99	97	97	97	96	95
28 BPA PWR SLE CNTRCT PURCH 1/	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	25	26	25	23	21	19	18	17	15	14
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	25	26	25	23	21	19	18	17	15	14
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	25	26	25	23	21	19	18	17	15	14

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1/ DOUGLAS HAS REQUESTED ZERO PURCHASE FROM BPA THROUGH THE STUDY HORIZON

TABLE U-11

EUGENE WATER & ELECTRIC BOARD
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	299	304	312	317	322	326	329	332	335	338
2 EXPORTS	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	299	304	312	317	322	326	329	332	335	338
RESOURCES										
5 REGULATED HYDRO	38	38	38	38	39	39	39	39	39	39
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	-1	-1
10 RESTORATION	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	38	38	38	38	39	39	39	39	38	38
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	15	14	14	13	10	6	5	5	3	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	14	14	14	14	14	14	14	14	14	14
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	9	9	9	9	9	9	9	9	9	9
21 TOTAL RESOURCES	76	75	75	74	72	68	67	67	64	61
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
25 NET RESOURCES	75	74	74	73	71	67	66	66	63	60
26 SURPLUS/DEFICIT	-225	-231	-239	-245	-252	-260	-264	-267	-273	-279
27 DEDICATED RESOURCES	59	58	58	57	55	51	50	50	47	44
28 BPA PWR SLE CNTRCT PURCH	242	248	256	262	269	277	281	284	290	296
29 SURPLUS/DEFICIT W/PURCHASE	17	17	17	17	17	17	17	17	17	17
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	17	17	17	17	17	17	17	17	17	17
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	17	17	17	17	17	17	17	17	17	17

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TABLE U-12

GRANT COUNTY PUD #2
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	313	316	324	328	333	336	339	342	346	350
2 EXPORTS	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	10	10	10	10	10	10	10	10	10	10
4 TOTAL LOADS	323	326	334	338	343	346	349	352	356	360
RESOURCES										
5 REGULATED HYDRO	342	342	342	342	349	349	349	349	349	349
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-7	-6	-6	-6	-5	-3	-3	-3	-2	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	-2	-4	-9	-9	-9	-11	-16
10 RESTORATION	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
11 TOTAL HYDRO	332	333	333	331	337	334	334	334	333	330
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	1	1	1	1	1	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	7	7	7	7	7	7	7	7	7	7
21 TOTAL RESOURCES	340	341	341	339	345	341	341	341	340	337
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	340	341	341	339	345	341	341	341	340	337
26 SURPLUS/DEFICIT	17	15	7	1	2	-5	-8	-11	-16	-23
27 DEDICATED RESOURCES	288	289	289	287	293	289	289	289	288	285
28A BPA PWR SLE CN PURCH(METR)	7	7	8	9	10	11	12	13	14	16
28B BPA PWR SLE CN PUR(COMPT)	18	20	27	32	30	36	38	40	44	49
29 SURPLUS/DEFICIT W/PURCHASE	42	42	42	42	42	42	42	42	42	42
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	42	42	42	42	42	42	42	42	42	42
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	42	42	42	42	42	42	42	42	42	42

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TABLE U-13

PEND OREILLE COUNTY PUD #1

M E D I U M L O A D S

O P E R A T I N G Y E A R

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1A SYSTEM LOADS PF PURCHASE	35	35	36	37	39	40	41	42	43	44
1B PONDERAY FIBRE MILL	62	62	62	62	62	62	62	62	62	62
2 EXPORTS	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	15	12	12	12	12	12	9	9	9	9
4 TOTAL LOADS 1/	112	109	110	111	113	114	112	113	114	115
RESOURCES										
5 REGULATED HYDRO	51	51	51	51	51	51	51	51	51	51
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	51	51	51	51	51	51	51	51	51	51
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	1	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	32	31	26	26	26	26	29	29	29	29
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	84	82	77	77	77	77	80	80	80	80
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	84	82	77	77	77	77	80	80	80	80
26 SURPLUS/DEFICIT	-28	-27	-33	-34	-36	-37	-32	-33	-34	-35
27 DEDICATED RESOURCES 2/	-2	4	4	4	4	4	10	10	10	10
28 BPA PWR SLE CNTRCT PURCH	37	31	32	33	35	36	31	32	33	34
29 SURPLUS/DEFICIT W/PURCHASE	9	4	-1	-1	-1	-1	-1	-1	-1	-1
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	9	4	-1	-1	-1	-1	-1	-1	-1	-1
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	9	4	-1	-1	-1	-1	-1	-1	-1	-1

FOOTNOTE: 1/ LOADS INCLUDE PONDERAY FIBRE MILL LOAD BEGINNING JULY 1989
2/ DEDICATED RESOURCES ARE REDUCED TO MEET PONDERAY FIBRE MILL BEGINNING JULY 1989

TABLE U-14

SEATTLE CITY LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	1073	1086	1115	1135	1153	1165	1177	1187	1198	1210
2 EXPORTS	11	11	11	11	11	11	11	11	11	11
3 CONTRACTS OUT	41	45	45	45	45	45	48	48	48	40
4 TOTAL LOADS	1125	1142	1171	1191	1209	1221	1236	1246	1257	1261
RESOURCES										
5 REGULATED HYDRO	644	644	644	644	644	644	644	644	644	643
6 INDEPENDENT HYDRO	15	15	15	15	15	15	15	15	15	15
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	-1	-1	-1	-1	-1
10 RESTORATION	2	2	2	2	2	2	2	2	2	2
11 TOTAL HYDRO	660	660	660	660	661	660	660	660	660	659
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	34	33	31	30	22	13	12	12	8	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	35	36	36	36	49	36	36	36	36	36
18 CONTRACTS IN	34	31	31	31	31	30	28	28	28	13
19 LARGE THERMAL	95	93	94	96	95	96	95	93	93	96
20 NON-UTILITY GENERATION	65	65	65	65	65	65	65	65	66	65
21 TOTAL RESOURCES	923	918	917	918	923	900	896	894	891	869
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
25 NET RESOURCES	922	917	916	917	922	899	895	893	890	868
26 SURPLUS/DEFICIT	-203	-225	-255	-274	-287	-322	-341	-353	-367	-393
27 DEDICATED RESOURCES	881	872	871	872	864	855	847	845	842	835
28 BPA PHR SLE CNTRCT PURCH	193	215	245	264	290	311	331	343	357	376
29 SURPLUS/DEFICIT W/PURCHASE	-10	-10	-10	-10	3	-11	-10	-10	-10	-17
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-10	-10	-10	-10	3	-11	-10	-10	-10	-17
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-10	-10	-10	-10	3	-11	-10	-10	-10	-17

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TABLE U-15

SNOHOMISH COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	661	666	685	693	703	712	719	726	732	738
2 EXPORTS	0	18	27	26	26	27	26	26	27	27
3 CONTRACTS OUT	5	5	5	5	5	5	5	0	0	0
4 TOTAL LOADS	666	689	717	724	734	744	750	752	759	765
RESOURCES										
5 REGULATED HYDRO	0	0	0	0	0	0	0	0	0	0
6 INDEPENDENT HYDRO	41	41	41	41	41	41	41	41	41	41
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	41	41	41	41	41	41	41	41	41	41
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	4	4	4	4	3	1	2	1	1	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	21	31	31	31	31	31	31	31	31
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	95	93	93	95	95	95	95	93	94	95
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	140	159	169	171	170	168	169	166	167	167
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	140	159	169	171	170	168	169	166	167	167
26 SURPLUS/DEFICIT	-526	-530	-548	-553	-564	-576	-581	-586	-592	-598
27 DEDICATED RESOURCES	140	138	138	140	139	137	138	135	136	136
28 BPA PWR SLE CNTRCT PURCH	526	551	579	584	595	607	612	617	623	629
29 SURPLUS/DEFICIT W/PURCHASE	0	21	31	31	31	31	31	31	31	31
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	21	31	31	31	31	31	31	31	31
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	0	21	31	31	31	31	31	31	31	31

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TABLE U-16

TACOMA PUBLIC UTILITIES
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS											
1	SYSTEM LOADS	654	662	681	691	702	711	716	724	730	737
2	EXPORTS	40	40	40	41	41	40	41	41	40	40
3	CONTRACTS OUT	4	4	4	4	4	3	4	4	4	4
4	TOTAL LOADS	698	706	725	736	747	754	761	769	774	781
RESOURCES											
5	REGULATED HYDRO	279	279	279	279	280	280	280	280	280	280
6	INDEPENDENT HYDRO	5	5	5	5	5	5	5	5	5	5
7	MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8	CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	0	0	0	0	0
9	CAN. ENT. RETURN (CANADA)	0	0	0	0	-1	-1	-1	-1	-1	-2
10	RESTORATION	0	0	0	0	0	0	0	0	0	0
11	TOTAL HYDRO	283	283	283	283	283	284	284	284	284	283
12	SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13	COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14	CSPE PURCHASE	34	33	31	29	22	13	12	12	8	0
15	RENEWABLES	0	0	0	0	0	0	0	0	0	0
16	COGENERATION	0	0	0	0	0	0	0	0	0	0
17	IMPORTS	0	0	0	0	0	0	0	0	0	0
18	CONTRACTS IN	4	4	4	4	4	4	4	4	4	4
19	LARGE THERMAL	95	94	93	95	95	95	95	94	93	95
20	NON-UTILITY GENERATION	25	25	25	25	25	25	25	25	25	25
21	TOTAL RESOURCES	416	414	411	411	404	396	395	394	389	382
22	HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23	LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24	HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25	NET RESOURCES	416	414	411	411	404	396	395	394	389	382
26	SURPLUS/DEFICIT	-282	-292	-314	-325	-343	-358	-366	-375	-385	-399
27	DEDICATED RESOURCES	395	394	393	395	394	391	390	389	384	377
28	BPA PWR SLE CNTRCT PURCH	259	268	288	296	308	320	326	335	346	360
29	SURPLUS/DEFICIT W/PURCHASE	-23	-24	-26	-29	-35	-38	-40	-40	-39	-39
30	EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31	SURPLUS/DEFICIT W/EXTRM WX	-23	-24	-26	-29	-35	-38	-40	-40	-39	-39
32	BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33	SURPLUS/DEFICIT AFTR BPA OB	-23	-24	-26	-29	-35	-38	-40	-40	-39	-39

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TABLE U-17

SMALL AND NONGENERATING PUBLIC AGENCIES
INCLUDING CLARK COUNTY PUD #1 AND GRAY HARBOR COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 ADJUSTED SYSTEM LOADS	3368	3410	3477	3539	3598	3641	3679	3715	3750	3786
2 EXPORTS	4	5	4	4	4	4	4	4	4	4
3 CONTRACTS OUT	4	4	4	4	4	4	4	3	3	3
4 TOTAL LOADS	3376	3419	3485	3547	3606	3649	3687	3722	3757	3793
RESOURCES										
5 REGULATED HYDRO	49	49	49	49	50	50	50	50	50	50
6 INDEPENDENT HYDRO	30	30	37	37	37	37	37	37	37	37
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	-1	-1	-1	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	-1	-1	-1	-1	-2	-2
10 RESTORATION	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	78	78	85	85	85	85	85	85	85	85
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	37	36	35	33	24	14	14	13	9	0
15 RENEWABLES	2	3	3	3	4	4	4	4	4	4
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	8	8	9	8	7	1	0	1	1	1
19 LARGE THERMAL	0	0	0	47	47	47	47	46	46	47
20 NON-UTILITY GENERATION	13	8	8	8	8	8	8	8	8	8
21 TOTAL RESOURCES	138	133	140	184	175	159	158	157	153	145
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	138	133	140	184	175	159	158	157	153	145
26 SURPLUS/DEFICIT	-3238	-3286	-3345	-3363	-3431	-3490	-3529	-3565	-3604	-3648
27 DEDICATED RESOURCES	134	128	129	126	117	101	100	100	96	87
28 BPA PHR SLE CNTRCT PURCH	3234	3282	3348	3413	3481	3540	3579	3615	3654	3699
29 SURPLUS/DEFICIT W/PURCHASE	-4	-4	3	50	50	50	50	50	50	51
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-4	-4	3	50	50	50	50	50	50	51
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-4	-4	3	50	50	50	50	50	50	51

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TABLE U-18

GENERATING PUBLIC AGENCIES
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

O P E R A T I N G Y E A R

MEGAWATTS	O P E R A T I N G Y E A R									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	3895	3937	4046	4103	4171	4217	4261	4302	4343	4385
2 EXPORTS	51	69	78	78	78	78	78	78	78	78
3 CONTRACTS OUT	79	79	79	79	79	78	79	74	74	66
4 TOTAL LOADS	4025	4085	4201	4260	4328	4373	4418	4454	4495	4529
RESOURCES										
5 REGULATED HYDRO	1623	1640	1640	1640	1650	1651	1663	1676	1689	1701
6 INDEPENDENT HYDRO	61	61	61	61	61	61	61	61	61	61
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-18	-16	-14	-15	-10	-5	-5	-5	-4	0
9 CAN. ENT. RETURN CANADA)	0	0	0	-2	-9	-20	-20	-20	-25	-35
10 RESTORATION	2	2	2	2	2	2	2	2	2	2
11 TOTAL HYDRO	1668	1687	1689	1686	1694	1689	1701	1714	1723	1729
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	100	96	90	85	65	37	35	33	22	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	14	35	45	45	45	45	45	45	45	45
17 IMPORTS	35	36	36	36	49	36	36	36	36	36
18 CONTRACTS IN	76	71	65	66	66	65	66	65	65	51
19 LARGE THERMAL	285	280	280	286	285	286	285	280	280	286
20 NON-UTILITY GENERATION	106	106	106	106	106	106	106	106	107	106
21 TOTAL RESOURCES	2284	2311	2311	2310	2310	2264	2274	2279	2278	2253
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
25 NET RESOURCES	2281	2308	2308	2307	2307	2261	2271	2276	2275	2250
26 SURPLUS/DEFICIT	-1744	-1777	-1893	-1953	-2021	-2112	-2147	-2178	-2220	-2279
27 DEDICATED RESOURCES	2104	2121	2124	2129	2126	2104	2115	2121	2119	2108
28 BPA PWR SLE CNTRCT PURCH	1762	1825	1933	1983	2051	2119	2159	2198	2248	2307
29 SURPLUS/DEFICIT W/PURCHASE	-7	23	15	5	5	-18	-13	-5	3	3
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-7	23	15	5	5	-18	-13	-5	3	3
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-7	23	15	5	5	-18	-13	-5	3	3

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SECTION IV: Annual Energy Analysis
MISCELLANEOUS

SECTION IV - MISCELLANEOUS

Annual Energy Analysis

Section IV: Miscellaneous

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TABLE M-1

COLOCKUM TRANSMISSION COMPANY
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	180	180	180	180	180	180	180	180	180	180
2 EXPORTS	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	180	180	180	180	180	180	180	180	180	180
RESOURCES										
5 REGULATED HYDRO	141	141	141	141	141	141	141	141	141	141
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-5	-5	-5	-4	-3	-2	-2	-2	-1	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	-3	-5	-5	-5	-7	-10
10 RESTORATION	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
11 TOTAL HYDRO	134	134	134	135	133	132	132	132	131	129
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 IMPORTS	0	0	0	0	0	0	0	0	0	0
17 COGENERATION	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	23	23	23	23	23	23	23	23	21	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	157	157	157	158	156	155	155	155	152	129
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	157	157	157	158	156	155	155	155	152	129
26 SURPLUS/DEFICIT	-23	-23	-23	-22	-24	-25	-25	-25	-28	-51

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TABLE M-2

MONTANA POWER COMPANY TOTAL
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

O P E R A T I N G Y E A R

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
LOADS										
1 SYSTEM LOADS	965	969	973	974	969	966	966	969	975	982
2 EXPORTS	91	91	91	91	91	91	91	91	91	91
3 CONTRACTS OUT	195	143	112	107	101	101	99	72	72	72
4 TOTAL LOADS	1251	1203	1176	1172	1161	1158	1156	1132	1138	1145
RESOURCES										
5 REGULATED HYDRO	170	170	170	170	178	178	178	178	178	178
6 INDEPENDENT HYDRO	145	145	145	145	145	145	145	145	145	145
7 MAY WATER BUDGET	-3	-3	-3	-3	-4	-3	-4	-3	-3	-4
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	6	6	6	6	6	6	6	6	6	6
11 TOTAL HYDRO	318	318	318	318	325	326	325	326	326	325
12 SMALL THERMAL & MISC	126	126	126	126	127	127	127	127	127	127
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	130	116	13	6	0	0	0	0	0	0
19 LARGE THERMAL	529	529	529	529	529	529	529	529	529	529
20 NON-UTILITY GENERATION	46	85	85	85	85	85	85	85	85	85
21 TOTAL RESOURCES	1149	1174	1071	1064	1066	1067	1066	1067	1067	1066
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	1149	1174	1071	1064	1066	1066	1066	1066	1067	1066
26 SURPLUS/DEFICIT	-102	-29	-105	-109	-95	-92	-90	-66	-72	-79

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TABLE M-3

NON-NORTHWEST UTILITY TRANSACTIONS
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
COGENERATION										
1 WAPA PURCH OF LONGVIEW FIBRE	36	36	36	36	36	36	36	36	36	36
THERMAL										
2 SDG&E SHARE OF BOARDMAN	55	55	55	55	55	55	55	55	55	55
3 TURLOCK SHARE OF BOARDMAN	39	39	39	39	39	39	39	39	39	39
4 TOTAL	130	130	130	130	130	130	130	130	130	130

TABLE M-4

PEND OREILLE COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAHATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
RESOURCES AVAILABLE TO SERVE LOAD										
1 BOX CANYON	39	35	35	35	35	35	32	32	32	32
2 SEATTLE TO P.O. (BOUNDARY)	23	27	27	27	27	27	30	30	30	30
3 TOTAL RESOURCES	62	62	62	62	62	62	62	62	62	62
4 PONDERAY FIBRE MILL	62	62	62	62	62	62	62	62	62	62
5 SURPLUS	0	0	0	0	0	0	0	0	0	0

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SECTION V: Annual Energy Analysis
SUPPORTING TABLES



SECTION V - SUPPORTING TABLES

Annual Energy Analysis

Section V: Supporting Tables

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TABLE A-1

MEDIUM LOADS
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
FIRM LOADS										
1A FEDERAL AGENCIES	153	154	155	156	157	158	159	160	160	161
1B FEDERAL + GEN PUB LOSSES	172	175	170	173	174	174	176	178	180	181
1C USBR	67	67	67	67	67	67	67	68	68	68
1D DSI ALUMINUM FIRM	2019	1982	1815	1811	1808	1799	1778	1662	1651	1640
1E DSI NON-ALUMINUM FIRM	175	198	217	215	198	179	162	162	162	162
1F DSI FIRM LOSSES	62	61	57	57	56	56	55	51	51	51
1 BPA NON UTILITY LOADS	2648	2637	2481	2479	2460	2433	2397	2281	2272	2263
2 CHELAN COUNTY PUD #1	192	196	205	210	216	219	224	227	231	235
3 COLOCKUM TRANSMISSION CO.	180	180	180	180	180	180	180	180	180	180
4 COWLITZ COUNTY PUD #1	531	536	549	554	563	568	575	580	585	590
5 DOUGLAS COUNTY PUD #1	75	74	75	76	78	78	79	80	81	81
6 EUGENE WATER & ELEC BOARD	299	304	312	317	322	326	329	332	335	338
7 GRANT COUNTY PUD #2	313	316	324	328	333	336	339	342	346	350
8 IDAHO POWER COMPANY	1534	1555	1585	1618	1648	1672	1698	1717	1736	1751
9 MONTANA POWER CO. REGIONAL	338	339	340	341	339	338	338	339	341	343
10 PACIFIC POWER & LIGHT	2293	2341	2400	2447	2495	2540	2589	2624	2661	2702
11 PEND OREILLE COUNTY PUD #1	97	97	98	99	101	102	103	104	105	106
12 PORTLAND GENERAL ELECTRIC	2032	2037	2010	1994	1993	2008	2024	2039	2064	2093
13 PUGET SOUND POWER & LIGHT	2463	2533	2602	2666	2718	2765	2809	2855	2899	2939
14 SEATTLE CITY LIGHT	1073	1086	1115	1135	1153	1165	1177	1187	1198	1210
15 SMALL & NON GEN PUBLICS	3368	3410	3477	3539	3598	3641	3679	3715	3750	3786
16 SNOHOMISH COUNTY PUD #1	661	666	685	693	703	712	719	726	732	738
17 TACOMA PUBLIC UTILITIES	654	662	681	691	702	711	716	724	730	737
18 UTAH POWER & LIGHT	388	394	402	407	415	424	434	441	449	456
19 WASHINGTON WATER POWER	904	906	909	913	914	915	913	915	920	927
20 REGIONAL FIRM LOADS	20043	20269	20430	20687	20931	21133	21322	21408	21615	21825
REGIONAL FIRM LOADS										
21 FEDERAL SYSTEM	2648	2637	2481	2479	2460	2433	2397	2281	2272	2263
22 PUBLIC AGENCIES W/COLOCKUM	7444	7527	7700	7824	7948	8038	8119	8197	8274	8350
23 PRIVATE UTILITIES	9951	10104	10248	10384	10522	10661	10806	10930	11069	11211
24 REGIONAL FIRM LOADS	20043	20269	20430	20687	20931	21133	21322	21408	21615	21825

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TABLE A-1 (CONTINUED)

MEDIUM LOADS
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
INTERRUPTIBLE LOADS										
25 DSI ALUMINUM TOP QUARTILE	532	661	605	604	603	600	593	554	550	547
26 DSI NON-ALUM TOP QUARTILE	58	66	72	71	66	60	54	54	54	54
27 OTHER INTERRUPTIBLE (UTAH)	0	0	0	0	0	0	0	0	0	0
28 DSI TOP QUARTILE LOSSES	17	20	19	19	19	19	18	17	17	17
29 REGIONAL INTERRUPT. LOADS	606	747	696	694	687	678	665	625	621	618
REGIONAL INTERRUPTIBLE LOADS										
30 FEDERAL SYSTEM	606	747	696	694	687	678	665	625	621	618
31 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0
32 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0
33 REGIONAL INTERRUPT. LOADS	606	747	696	694	687	678	665	625	621	618
REGIONAL TOTAL LOADS										
34 FEDERAL SYSTEM	3254	3385	3178	3173	3148	3111	3062	2907	2894	2881
35 PUBLIC AGENCIES	7444	7527	7700	7824	7948	8038	8119	8197	8274	8350
36 PRIVATE UTILITIES	9951	10104	10248	10384	10522	10661	10806	10930	11069	11211
37 REGIONAL TOTAL LOADS	20650	21016	21126	21381	21618	21811	21987	22033	22236	22443

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TABLE A-2

MEGAWATTS	EXPORTS									
	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
EXPORTS TO EAST										
1 CITYIDFL TO UT, GEM ST HYD	4	5	4	4	4	4	4	4	4	4
2 EXPORTS TO EAST	4	4	4	4	4	4	4	4	4	4
INTRA-COMPANY TRANSFERS TO PSW										
3 PP&L TO PP&L N. CALIF.	8	8	9	10	11	12	13	15	16	17
4 INTRA-CO TRANSFERS TO PSW	8	9	10	10	11	12	13	15	17	17
EXPORTS TO PSW										
5 BPA TO ANAHEIM C/NX	1	0	0	1	1	1	1	1	1	1
6 BPA TO ANAHEIM CAP S	0	0	0	0	0	0	0	0	0	0
7 BPA TO BURBANK PWR S,C/NX	16	16	16	16	16	16	16	16	16	16
8 BPA TO GLENDALE PWR S,C/NX	8	8	8	8	8	8	8	8	8	8
9 BPA TO MSR PWR S,C/NX	50	50	75	75	75	75	75	75	75	75
10 BPA TO PASADENA PWR S,C/NX	3	3	3	3	3	3	3	3	3	3
11 BPA TO RIVERSIDE C/NX	0	0	0	0	0	0	0	0	0	0
12 BPA TO RIVERSIDE CAP S	0	0	0	0	0	0	0	0	0	0
13 BPA TO SDG&E PWR X,C/NX	51	51	20	0	0	0	0	0	0	0
14 BPA TO SMUD PWR X,C/NX	7	6	0	0	0	0	0	0	0	0
15 BPA TO SCE PWR S&C/NX	134	134	134	134	134	134	134	134	134	134
16 BPA TO SCE OPT CAP	0	0	0	0	0	0	0	0	0	0
17 BPA NH-SW INTERTIE LOSSES	8	8	8	7	7	7	7	7	7	7
18 IPC TO SIERRA PAC PWR S1	11	12	11	11	11	11	0	0	0	0
19 IPC TO SIERRA PAC PWR S2	43	43	44	44	39	0	0	0	0	0
20 IPC TO JAMPS PWR S	46	46	46	46	46	46	46	46	46	20
21 IPC TO AZUSA,BAN,CLTN PWR S	6	6	6	6	6	6	6	6	6	6
22 IPC TO CTY OF WASH,UT PWR S	3	3	3	3	3	3	3	3	0	0
23 MPC TO LADNP PWR S	91	91	91	91	91	91	91	91	91	91
24 PP&L TO CDWR PWR S	71	71	71	71	71	71	71	71	71	71
25 PP&L TO PG&E PWR S	29	12	0	0	0	0	0	0	0	0
26 PP&L TO SMUD PWR S	40	40	40	40	40	40	40	40	40	40
27 PP&L TO SCE PWR S	57	57	57	57	57	57	57	57	57	57
28 PP&L TO WAPA PWR S	189	189	189	189	189	189	189	189	189	189
29 PGE TO BURBANK PWR S	8	8	8	8	8	8	8	8	8	8
30 PGE TO GLENDALE PWR S	15	15	15	15	15	15	15	15	15	15
31 PGE TO SCE PWR S	60	60	60	60	60	60	60	60	60	60
32 PGE TO SCE SPX	34	34	34	34	34	34	34	34	34	34
33 PGE TO WAPA PWR S	65	65	65	65	65	65	65	65	65	65
34 PSP&L TO PG&E SPX	47	47	47	47	47	47	47	47	47	47
35 SCL TO NCPA SPX	11	11	11	11	11	11	11	11	11	11
36 SNOH TO SMUD PWR S	0	18	27	26	26	27	26	26	27	27
37 TCL TO WAPA PWR S	40	40	40	41	41	40	41	41	40	40
38 WWP TO PG&E SPX	25	25	25	25	25	24	25	25	25	24

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1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

TABLE A-2

EXPORTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
THE FOLLOWING RESOURCES ARE OWNED BY UTILITIES OUTSIDE THE PACIFIC NORTHWEST										
39 BOARDMAN(14.2%) TO SDG&E *	55	55	55	55	55	55	55	55	55	55
40 BOARDMAN(10.2%) TO TURLOCK*	38	38	38	38	38	38	38	38	38	38
41 LONGVIEW FIBRE TO WAPA *	36	36	36	36	36	36	36	36	36	36
42 TOTAL	129	128	129	128	128	129	129	128	129	129
43 EXPORTS TO PSW	1297	1297	1283	1262	1257	1218	1208	1207	1204	1178
EXPORTS TO CANADA										
44 BPA CAN. ENT. TO BC HYDRO	0	0	0	17	137	300	299	297	375	530
45 EXPORTS TO CANADA	0	0	0	17	137	300	299	297	375	530
46 TOTAL EXPORTS	1310	1310	1296	1294	1410	1534	1524	1524	1600	1730
TOTAL EXPORTS										
47 FEDERAL SYSTEM	278	276	265	261	381	544	543	541	619	775
48 PUBLIC AGENCIES	55	74	82	82	82	82	82	82	82	82
49 PRIVATE UTILITIES	848	832	821	822	818	779	770	772	770	744
50 NON-NORTHWEST UTILITIES *	129	129	129	129	129	129	129	129	129	129
51 TOTAL EXPORTS	1310	1311	1297	1294	1410	1534	1524	1524	1600	1730

NOTE: 1. THE FOLLOWING BPA CONTRACTS ARE SHOWN ASSURPLUS FIRM POWER SALES UNTIL THEY EXPIRE. IN ACTUAL OPERATION, THESE CONTRACTS MAY CONVERT ANNUALLY, ON AN INDIVIDUAL BASIS, TO CAPACITY/ENERGY EXCHANGES TO MEET LOADS.

- A. BPA TO BGP, POWER SALE & CAPACITY/ENERGY EXCHANGE
- B. BPA TO MSR, POWER SALE & CAPACITY/ENERGY EXCHANGE
- C. BPA TO SCE, POWER SALE & CAPACITY/ENERGY EXCHANGE

2. BPA OPTION CAPACITY SALE TO SCE IS INCLUDED THROUGH OY 1996-97

TABLE A-3

SHEET 1 OF 2

REGULATED HYDRO PROJECTS

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
REGULATED HYDRO PROJECTS											
1	ALBENI FLS AFTER ENC.	FED	26	26	26	26	26	26	26	26	26
2	ALDER	TCL	20	20	20	20	20	20	20	20	20
3	BONNEVILLE	FED	501	501	501	501	499	499	499	499	499
4	BOUNDARY AFTER ENC.	SCL	359	359	359	359	359	359	359	359	359
5	BOX CANYON AFTER ENC.	PENDO	51	51	51	51	51	51	51	51	51
6	BROWNLIE	ID	242	242	242	242	243	243	243	243	243
7	CABINET GORGE	WHP	99	99	99	99	99	99	99	99	99
8	CARMEN-SMITH	EUG	16	16	16	16	16	16	16	16	16
9	CHELAN AFTER ENC.	CHLN	38	38	38	38	39	39	39	39	39
10	CHIEF JOSEPH AFT ENC.	FED	1194	1194	1194	1194	1194	1194	1194	1194	1194
11	CUSHMAN 1	TCL	11	11	11	11	11	11	11	11	11
12	CUSHMAN 2	TCL	20	20	20	20	20	20	20	20	20
13	DIABLO	SCL	81	81	81	81	81	81	81	81	81
14	DWORSHAK	FED	166	166	166	166	166	166	166	166	166
15	FARADAY	PGE	17	17	17	17	17	17	17	17	17
16	GORGE	SCL	93	93	93	93	93	93	93	93	92
17	GRAND COULEE-LDS+TRB	FED	1951	1951	1951	1951	1923	1923	1923	1923	1923
18	HELLS CANYON	ID	190	190	190	190	190	190	190	190	190
19	HUNGRY HORSE	FED	100	100	100	100	100	100	100	100	100
20	ICE HARBOR	FED	199	199	199	199	213	213	213	213	213
21	JOHN DAY	FED	942	942	942	942	956	956	956	956	956
22	KERR	REGIONAL MPC	42	36	45	46	45	45	45	42	42
23	LA GRANDE	TCL	33	33	33	33	33	33	33	33	33
24	LIBBY	FED	184	184	184	184	187	187	187	187	187
25	LITTLE FALLS	WHP	19	19	19	19	19	19	19	19	19
26	LITTLE GOOSE	FED	213	213	213	213	213	213	213	213	213
27	LONG LAKE	WHP	42	42	42	42	42	42	42	42	42
28	LOWER BAKER	PSP&L	39	39	39	39	39	39	39	39	39
29	LOWER GRANITE	FED	216	216	216	216	216	216	216	216	216
30	LOWER MONUMENTAL	FED	220	220	220	220	220	220	220	220	220
31	MAYFIELD	TCL	65	65	65	65	65	65	65	65	65
32	M McNARY	FED	682	682	682	682	682	682	682	682	682
33	MERWIN	PP&L	46	46	46	46	50	50	50	50	50
34	MONROE STREET	WHP	10	10	10	10	10	10	10	10	10
35	MOSSY ROCK	TCL	91	91	91	91	91	91	91	91	91
36	NINE MILE	WHP	12	12	12	12	12	12	12	12	12
37	NORTH FORK	PGE	19	19	19	19	19	19	19	19	19
38	NOXON	WHP	151	151	151	151	151	151	151	151	151
39	OAK GROVE	PGE	25	25	25	25	25	25	25	25	25
40	OXBOW	ID	98	98	98	98	98	98	98	98	98
41	PACKWOOD	WPPSS	8	8	8	8	8	8	8	8	8
42	PELTON	PGE	35	35	35	35	35	35	35	35	35
43	PELTON REREGULATING	PP&L	8	8	8	8	8	8	8	8	8
44	POST FALLS	WHP	8	8	8	8	8	8	8	8	8
45	PRST RPDS AFTER ENC.	GRNT	487	487	487	487	494	494	494	494	494

TABLE A-3 (CONTINUED)

REGULATED HYDRO

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
REGULATED HYDRO PROJECTS											
46 RIVER MILL	PGE	10	10	10	10	10	10	10	10	10	10
47 ROCK ISLAND	CHLN	357	357	357	357	357	357	357	357	357	357
48 RKY REACH AFTER ENC.	CHLN	612	612	612	612	612	612	612	612	612	612
49 ROSS	SCL	72	72	72	72	72	72	72	72	72	72
50 ROUND BUTTE	PGE	85	85	85	85	85	85	85	85	85	85
51 SWIFT 1	PP&L	53	53	53	53	53	53	53	53	53	53
52 SWIFT 2	COW	20	20	20	20	20	20	20	20	20	20
53 THE DALLES	FED	744	744	744	744	766	766	766	766	766	766
54 THOMPSON FLS REGIONAL	MPC	17	14	18	18	21	21	21	19	19	19
55 TRAIL BRIDGE	EUG	4	4	4	4	4	4	4	4	4	4
56 UPPER BAKER	PSP&L	34	34	34	34	34	34	34	34	34	34
57 UPPER FALLS	WHP	8	8	8	8	8	8	8	8	8	8
58 WANAPUM AFTER ENC.	GRNT	447	447	447	447	462	462	462	462	462	462
59 WELLS AFTER ENC.	DGLS	382	382	382	382	382	382	382	382	382	382
60 WHITE	PSP&L	29	29	29	29	29	29	29	29	29	30
61 YALE	PP&L	54	54	54	54	53	53	52	53	53	53
HYDRO EFFICIENCY IMPROVEMENTS											
62 HYDRO EFFICIENCY IMP. FED		45	45	45	45	45	45	45	45	45	45
63 REGULATED HYDRO W/ENC.		12044	12035	12048	12049	12100	12099	12099	12094	12095	12095
TOTAL REGULATED HYDRO W/ENCROACHMENTS											
64 FEDERAL SYSTEM		7391	7391	7391	7391	7414	7414	7414	7414	7414	7414
65 PUBLIC AGENCIES		1813	1830	1830	1830	1841	1842	1854	1867	1880	1892
66 PRIVATE UTILITIES		2840	2814	2827	2828	2845	2843	2831	2813	2801	2789
67 TOTAL REGULATED HYDRO W/ENC		12044	12035	12048	12049	12100	12099	12099	12094	12095	12095
HYDRO INDEPENDENTS (FROM TABLE A-4)											
68 FEDERAL SYSTEM		298	298	298	298	298	298	298	298	298	298
69 PUBLIC AGENCIES		91	91	98	98	98	98	98	98	98	98
70 PRIVATE UTILITIES		584	576	587	587	587	587	586	582	583	584
71 TOTAL HYDRO INDEPENDENTS		973	965	983	983	983	983	982	978	979	980
TOTAL REGIONAL HYDRO											
72 FEDERAL SYSTEM		7689	7689	7689	7689	7712	7712	7712	7712	7712	7712
73 PUBLIC AGENCIES		1904	1921	1928	1928	1939	1940	1952	1965	1978	1990
74 PRIVATE UTILITIES		3424	3390	3414	3415	3432	3430	3417	3395	3384	3373
75 TOTAL REGIONAL HYDRO		13017	13000	13031	13032	13083	13082	13081	13072	13074	13075

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TABLE A-4

HYDRO INDEPENDENTS

SHEET 1 OF 2

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	ID	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
1	AMERICAN FALLS	32	32	32	32	32	32	32	32	32	32
2	ANDERSON RANCH	11	11	11	11	11	11	11	11	11	11
3	BIG CLIFF	11	11	11	11	11	11	11	11	11	11
4	BIG CREEK	0	0	0	0	0	0	0	0	0	0
5	BLACK CANYON	7	7	7	7	7	7	7	7	7	7
6	BLACK EAGLE REGIONAL	5	4	5	5	5	5	5	5	5	5
7	BLISS	45	45	45	45	45	45	45	45	45	45
8	BULL RUN	10	10	10	10	10	10	10	10	10	10
9	C. J. STRIKE	55	55	55	55	55	55	55	55	55	55
10	CALISPEL CREEK	0	0	0	0	0	0	0	0	0	0
11	CASCADE	4	4	4	4	4	4	4	4	4	4
12	CEDAR FALLS, NEWHALEM	9	9	9	9	9	9	9	9	9	9
13	CHANDLER	7	7	7	7	7	7	7	7	7	7
14	COCHRANE REGIONAL	8	6	8	8	8	8	8	8	8	8
15	CNDT, SM PLNTS, BIG FRK	26	26	26	26	26	26	26	26	26	26
16	COUGAR	12	12	12	12	12	12	12	12	12	12
17	COMLITZ FALLS	22	22	22	22	22	22	22	22	22	22
18	DETROIT	34	34	34	34	34	34	34	34	34	34
19	DEXTER	8	8	8	8	8	8	8	8	8	8
20	FELT	1	1	1	1	1	1	1	1	1	1
21	FOSTER	10	10	10	10	10	10	10	10	10	10
22	GEM STATE HYDRO	14	14	14	14	14	14	14	14	14	14
23	GREEN PETER	22	22	22	22	22	22	22	22	22	22
24	GREEN SPRINGS - USBR	7	7	7	7	7	7	7	7	7	7
25	HAUSER REGIONAL	4	4	4	4	4	4	4	4	4	4
26	HEBGEN REGIONAL	0	0	0	0	0	0	0	0	0	0
27	HILLS CREEK REGIONAL	14	14	14	14	14	14	14	14	14	14
28	HOLTER	8	8	8	8	8	8	8	8	8	8
29	HOOD STREET	1	1	1	1	1	1	1	1	1	1
30	IDAHO FALLS	18	18	18	18	18	18	18	18	18	18
31	JACKSON	41	41	41	41	41	41	41	41	41	41
32	KLAMATH	22	22	22	22	22	22	22	22	22	22
33	LEABURG	0	0	0	0	0	0	0	0	0	0
34	LOOKOUT POINT	24	24	24	24	24	24	24	24	24	24
35	LOST CREEK	23	23	23	23	23	23	23	23	23	23
36	LOWER SALMON	29	29	29	29	29	29	29	29	29	29
37	MADISON REGIONAL	3	3	3	3	3	3	3	3	3	3
38	MCNARY FISHWAY	0	0	0	0	0	0	0	0	0	0
39	MEYERS FALLS	1	1	1	1	1	1	1	1	1	1
40	MILL CREEK	0	0	0	0	0	0	0	0	0	0
41	MLTWN FLT CR REGIONAL	0	0	0	0	0	0	0	0	0	0
42	MILNER	7	7	7	7	7	7	7	7	7	7
43	MINIDOKA	9	9	9	9	9	9	9	9	9	9
44	MORONY	9	9	9	9	9	9	9	9	9	9
45	MORSE CREEK	0	0	0	0	0	0	0	0	0	0
46	PT ANGLS	0	0	0	0	0	0	0	0	0	0
47		0	0	0	0	0	0	0	0	0	0

TABLE A-4 (CONTINUED)

HYDRO INDEPENDENTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999-00 AVG	2000-01 AVG	2001-02 AVG	2002-03 AVG	2003-04 AVG
48 MOYIE SPRINGS	2	2	2	2	2	2	2	2	2	2
49 MYSTICE	97	97	97	97	97	97	97	97	97	97
50 NORTH UMPQUA	61	61	61	61	61	61	61	61	61	61
51 PALISADES	10	9	11	11	11	11	10	10	10	10
52 RAINBOW	0	0	0	0	0	0	0	0	0	0
53 REEDER GULCH	34	34	34	34	34	34	34	34	34	34
54 ROGUE	4	4	4	4	4	4	4	4	4	4
55 ROZA - PUMPING LOAD	2	2	2	2	2	2	2	2	2	2
56 RYAN	10	10	10	10	10	10	10	10	10	10
57 SHOSHONE FALLS	49	49	49	49	49	49	49	49	49	49
58 SNOQUALMIE, ELCT & MK	0	0	0	0	0	0	0	0	0	0
59 SODA CREEK	6	6	6	6	6	6	6	6	6	6
60 SODA SPR	29	29	29	29	29	29	29	29	29	29
61 SOUTH FORK TOLT	2	2	2	2	2	2	2	2	2	2
62 STRAMBERY	17	17	17	17	17	17	17	17	17	17
63 SWAN FALLS	14	14	14	14	14	14	14	14	14	14
64 T W SULLIVAN	3	3	3	3	3	3	3	3	3	3
65 THE DALLES FISHWAY, NO WAS	11	11	11	11	11	11	11	11	11	11
66 TWIN FALLS	18	18	18	18	18	18	18	18	18	18
67 UPPER SALMON 1&2	16	16	16	16	16	16	16	16	16	16
68 UPPER SALMON 3&4	0	0	0	0	0	0	0	0	0	0
69 WATERVILLE	4	4	4	4	4	4	4	4	4	4
70 WYNOCHEE	9	9	9	9	9	9	9	9	9	9
69 VELM	9	9	9	9	9	9	9	9	9	9
70 TOTAL HYDRO INDEPENDENTS	973	965	983	983	983	983	978	978	979	980

TOTAL HYDRO INDEPENDENTS

72 FEDERAL SYSTEM	298	298	298	298	298	298	298	298	298	298
73 PUBLIC AGENCIES	91	91	98	98	98	98	98	98	98	98
74 PRIVATE UTILITIES	584	576	587	587	587	587	582	582	583	584
75 TOTAL HYDRO INDEPENDENTS	973	965	983	983	983	982	978	978	979	980

MEGAWATTS	IMPORTS									
	1994-95 AVG	1995-96 AVG	OPERATING YEAR		1998-99 AVG	1999- 0 AVG	2000- 1 AVG	1993 WHITEBOOK: 12/19/93 RUN DATE: 01/19/94		
			1996-97 AVG	1997-98 AVG				2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
TOTAL IMPORTS										
30 FEDERAL SYSTEM	384	211	176	101	101	101	101	101	101	101
31 PUBLIC AGENCIES	36	36	36	36	48	36	35	35	35	35
32 PRIVATE UTILITIES	1518	1401	1390	1384	1323	1333	1344	1269	1299	1297
33 TOTAL IMPORTS	1938	1648	1602	1521	1472	1470	1480	1405	1435	1433

NOTE: THE FOLLOWING BPA CONTRACTS WITH THE PSW ARE INCLUDED AS FEDERAL RESOURCE OPTIONS AND NOT INCLUDED IN THE FEDERAL LOADS AND RESOURCE BALANCE.

A. BGP TO BPA, CAPACITY/ENERGY EXCHANGE	D. SCE TO BPA, CAPACITY/ENERGY EXCHANGE
B. BGP TO BPA, SUPPLEMENTAL ENERGY	E. SCE TO BPA, SUPPLEMENTAL ENERGY
C. MSR TO BPA, CAPACITY/ENERGY EXCHANGE	F. SCE TO BPA, OPTION ENERGY

TABLE A-6

SMALL THERMAL AND MISCELLANEOUS RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

MEGAWATTS		OPERATING YEAR					1993 WHITEBOOK:				
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1	DIESEL CITYIDFL	0	0	0	0	0	0	0	0	0	0
2	STEAM PLANT 2 TCL	0	0	0	0	0	0	0	0	0	0
3	SUMMIT 1&2 PGE	1	1	1	1	1	1	1	1	1	1
4	ENERGY MANAG SYSTEMS ID	0	0	0	0	0	0	0	0	0	0
5	CRYSTAL MOUNTAIN PSP&L	0	0	0	0	0	0	0	0	0	0
6	SHUFFLETON PSP&L	2	2	2	2	2	2	2	2	2	2
7	BIRD REGIONAL MPC	0	0	0	0	1	1	1	1	1	1
8	CORETTE REGIONAL MPC	45	38	48	48	46	46	46	42	43	43
9	SEATTLE BOUNDARY SCL	0	0	0	0	0	0	0	0	0	0
10 TOTAL SMALL THERMAL & MISC.		48	41	51	51	50	50	50	46	47	47
TOTAL SMALL THERMAL & MISC.											
11	FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0
12	PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0
13	PRIVATE UTILITIES	48	41	51	51	50	50	50	46	47	47
14 TOTAL SMALL THERMAL & MISC.		48	41	51	51	50	50	50	46	47	47

TABLE A-7

COMBUSTION TURBINES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	ID	OPERATING YEAR									
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1	WOOD RIVER	1	1	1	1	1	1	1	1	1	1
2	BETHEL	53	53	53	53	53	53	53	53	53	53
3	BEAVER	328	328	328	330	428	428	428	428	428	428
4	WHIDBEY ISLAND	0	0	0	1	0	0	0	0	0	0
5	WHITEHORN	39	39	39	39	39	39	39	39	39	39
6	FREDRICKSON	4	4	4	4	4	4	4	4	4	4
7	FREDONIA UNITS 1&2	6	6	6	6	6	6	6	6	6	6
8	RATHDRUM UNITS 1&2	0	0	0	0	0	0	0	0	0	0
9	NORTHEAST UNITS 1&2	54	54	54	54	54	54	54	54	54	54
10 TOTAL COMBUSTION TURBINES		485	485	485	488	585	585	585	585	585	585
TOTAL COMBUSTION TURBINES											
11	FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0
12	PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0
13	PRIVATE UTILITIES	485	485	485	488	585	585	585	585	585	585
14 TOTAL COMBUSTION TURBINES		485	485	485	488	585	585	585	585	585	585

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TABLE A-8

RENEWABLE RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS			1994-95	1995-96	1996-97	1997-98	1998-99	1999- 0	2000- 1	2001- 2	2002- 3	2003- 4
			AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
1	SHORT MOUNTAIN	EMRD	2	3	3	3	4	4	4	4	4	4
2	KETTLE FALLS	HWP	40	40	40	40	39	39	39	40	40	40
3	TOTAL RENEWABLE RESOURCES		42	43	43	43	43	43	43	44	44	44
TOTAL RENEWABLE RESOURCES												
4	FEDERAL SYSTEM		0	0	0	0	0	0	0	0	0	0
5	PUBLIC AGENCIES		2	3	3	3	4	4	4	4	4	4
6	PRIVATE UTILITIES		40	40	40	40	39	39	39	40	40	40
7	TOTAL RENEWABLE RESOURCES		42	43	43	43	43	43	43	44	44	44

TABLE A-9

COGENERATION
OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS			1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1	WEYCO ENERGY CENTER	EWEB	14	14	14	14	14	14	14	14	14	14
2	SCOTT PAPER	SNOH	0	21	31	31	31	31	31	31	31	31
3	COYOTE SPRINGS	PGE	0	200	220	220	220	220	220	220	220	220
THE FOLLOWING RESOURCE IS SOLD OUTSIDE THE REGION												
4	LONGVIEW FIBRE FOR WAPA *		36	36	36	36	36	36	36	36	36	36
5	TOTAL COGENERATION		50	271	301	301	301	301	301	301	301	301
TOTAL COGENERATION												
6	FEDERAL SYSTEM		0	0	0	0	0	0	0	0	0	0
7	PUBLIC AGENCIES		14	35	45	45	45	45	45	45	45	45
8	PRIVATE UTILITIES		0	200	220	220	220	220	220	220	220	220
9	NON-NORTHWEST UTILITIES *		36	36	36	36	36	36	36	36	36	36
10	TOTAL COGENERATION		50	271	301	301	301	301	301	301	301	301

TABLE A-10

LARGE THERMAL
OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
BOARDMAN, COAL											
1	IDAHO SHARE 10.0 %	38	38	38	38	38	38	38	38	38	38
2	PGE SHARE 65.8 %	253	253	253	253	253	253	253	253	253	253
3 BOARDMAN 75.8% REGION		291	291	291	291	291	291	291	291	291	291
SAN DIEGO GAS AND ELECTRIC AND CITY OF TURLOCK ARE NOT REGIONAL RESOURCES											
4	SDG&E SHARE 14.2 % *	55	55	55	55	55	55	55	55	55	55
5	TURLOCK SHARE 10.0 % *	39	39	39	39	39	39	39	39	39	39
6 BOARDMAN 24.2% NON-REGION		94	94	94	94	94	94	94	94	94	94
7 BOARDMAN		385	385	385	385	385	385	385	385	385	385
CENTRALIA, COAL											
8	PP&L SHARE 47.5 %	562	553	553	565	564	564	563	554	553	565
9	PGE SHARE 2.5 %	30	29	29	30	30	30	30	29	29	30
10	PSP&L SHARE 7.0 % + 4.0%	131	128	128	83	82	83	83	81	81	83
11	SEATTLE SHARE 8.0 %	95	93	94	96	95	96	95	93	93	96
12	TACOMA SHARE 8.0 %	95	94	93	95	95	95	95	94	93	95
13	WHP SHARE 15.0 %	178	175	175	178	178	178	177	175	175	178
14	SNOHOM SHARE 8.0 %	95	93	93	95	95	95	95	93	94	95
15	GHARBOR SHARE 4.0%	0	0	0	47	47	47	47	46	46	47
16 CENTRALIA		1186	1165	1164	1188	1186	1187	1185	1165	1164	1188
COLSTRIP 1 & 2, COAL											
17 MPC SHARE IN REGION		88	75	95	95	93	92	92	85	86	86
18 PSP&L SHARE		251	251	251	251	251	251	251	251	251	251
19 COLSTRIP 1 & 2		339	326	346	346	344	343	343	336	337	337
COLSTRIP 3, COAL											
20 MPC SHARE IN REGION		65	55	69	70	68	68	67	62	63	63
21	PP&L SHARE 10 %	61	61	62	61	61	62	62	62	61	61
22	PGE SHARE 20 %	123	124	123	123	124	123	123	124	123	124
23	PSP&L SHARE 25 %	155	155	155	155	155	155	155	155	155	155
24	WHP SHARE 15 %	92	92	92	92	92	92	92	92	92	92
25 COLSTRIP 3		496	487	501	501	500	500	499	495	494	495

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TABLE A-10 (CONTINUED)

LARGE THERMAL
OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
COLSTRIP 4, COAL											
26 MPC	SHARE 30 %	185	185	185	185	185	185	185	185	185	185
27 PP&L	SHARE 10 %	62	62	62	62	62	62	62	62	62	62
28 PGE	SHARE 20 %	123	124	123	123	123	123	123	123	123	123
29 PSP&L	SHARE 25 %	155	155	155	155	155	155	155	155	155	155
30 WWP	SHARE 15 %	92	92	92	92	92	92	92	92	92	92
31 COLSTRIP 4		617	618	617	617	617	617	617	617	617	617
JIM BRIDGER, COAL											
32 IDAHO	SHARE 33%	578	584	572	584	584	578	578	584	572	584
VALMY, COAL											
33 IDAHO	SHARE 50% OUTPUT	195	195	196	195	194	195	195	195	195	194
WNP 2, NUCLEAR											
34 BPA	SHARE 100.0%	715	747	751	751	751	751	751	751	751	751
35 TOTAL LARGE THERMAL		4511	4507	4532	4567	4561	4556	4553	4528	4515	4551
TOTAL LARGE THERMAL											
36 FEDERAL SYSTEM		715	747	751	751	751	751	751	751	751	751
37 PUBLIC AGENCIES		285	280	280	333	332	333	332	326	326	333
38 PRIVATE UTILITIES		3417	3386	3407	3389	3384	3379	3377	3357	3344	3374
39 NON-NORTHWEST UTILITIES	*	94	94	94	94	94	94	94	94	94	94
40 TOTAL LARGE THERMAL		4511	4507	4532	4567	4561	4556	4553	4528	4515	4551

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TABLE A-11

RESTORATION
OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1 FEDERAL	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
3 COLOCKUM TRANSMISSION CO.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
4 COWLIZ COUNTY PUD #1	3	3	3	3	3	3	3	3	3	3
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0
7 GRANT COUNTY PUD #2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
8 MONTANA POWER CO. REGIONAL	6	6	6	6	6	6	6	6	6	6
9 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
10 PORTLAND GENERAL ELECTRIC	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
11 PACIFIC POWER & LIGHT	30	30	30	30	30	30	30	30	30	30
12 PUGET SOUND POWER & LIGHT	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
13 SEATTLE CITY LIGHT	2	2	2	2	2	2	2	2	2	2
14 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0
15 WASHINGTON WATER POWER	8	8	8	8	8	8	8	8	8	8
16 TOTAL RESTORATION	4	4	4	4	4	4	4	4	4	4
TOTAL RESTORATION										
17 FEDERAL SYSTEM	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
18 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0
19 PRIVATE UTILITIES	30	30	30	30	30	30	30	30	30	30
20 TOTAL RESTORATION	4	4	4	4	4	4	4	4	4	4

CANADIAN ENTITLEMENT RETURN FOR CSPE
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

		OPERATING YEAR									
		1994-95	1995-96	1996-97	1997-98	1998-99	1999- 0	2000- 1	2001- 2	2002- 3	2003- 4
		AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
MEGAWATTS											
BPA CANADIAN ENTITLEMENT											
1	BPA CANADIAN ENTITLEMENT	217	208	198	186	140	79	76	73	48	0
PRIEST RAPIDS CANADIAN ENTITLEMENT											
2	PP&L CER FOR PRIEST R.	1	1	1	1	1	1	1	1	1	0
3	PGE CER FOR PRIEST R.	1	1	1	1	1	1	1	1	0	0
4	PSP&L CER FOR PRIEST R.	1	1	1	0	0	0	0	0	0	0
5	SEATTL CER FOR PRIEST R.	1	1	1	1	1	0	0	0	0	0
6	TACOMA CER FOR PRIEST R.	1	1	1	1	1	0	0	0	0	0
7	WWP CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
8	GRANT CER FOR PRIEST R.	3	2	2	2	2	1	1	1	1	0
9	EUGENE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
10	COWLIZ CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
11	F GROV CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
12	MCMINN CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
13	M FREE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
14	KITITS CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
15	PRIEST CANADIAN ENTITLEMENT	8	7	7	6	5	3	3	3	2	0
HANAPUM CANADIAN ENTITLEMENT											
16	PP&L CER FOR WANAPUM	2	2	2	2	1	1	1	1	1	0
17	PGE CER FOR WANAPUM	2	2	2	2	1	1	1	1	1	0
18	PSP&L CER FOR WANAPUM	1	1	1	1	1	0	0	0	0	0
19	WWP CER FOR WANAPUM	1	1	1	1	1	0	0	0	0	0
20	GRANT CER FOR WANAPUM	4	4	4	4	3	2	2	2	1	0
21	EUGENE CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0
22	COWLIZ CER FOR WANAPUM	1	1	0	0	0	0	0	0	0	0
23	F GROV CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0
24	MCMINN CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0
25	M FREE CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0
26	HANAPUM CANADIAN ENT	11	11	10	10	7	4	4	4	3	0
ROCK ISLAND CANADIAN ENTITLEMENT											
27	CHELAN CER FOR ROCK ISLAND	0	0	0	0	0	0	0	0	0	0
28	PSP&L CER FOR ROCK ISLAND	2	2	2	2	2	1	1	1	1	0
29	ROCK I CANADIAN ENTITLEMENT	2	2	2	2	2	1	1	1	1	0

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CANADIAN ENTITLEMENT RETURN FOR CSPE
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	OPERATING YEAR												
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999-00 AVG	2000-01 AVG	2001-02 AVG	2002-03 AVG	2003-04 AVG			
ROCKY REACH CANADIAN ENTITLEMENT													
30 PP&L CER FOR ROCKY REACH	1	1	1	1	1	1	1	1	1	1	0	0	
31 PGE CER FOR ROCKY REACH	2	2	2	1	2	1	1	1	1	1	0	0	
32 PSP&L CER FOR ROCKY REACH	8	8	8	7	6	4	4	3	3	2	2	0	
33 WMP CER FOR ROCKY REACH	1	1	1	1	0	0	0	0	0	0	0	0	
34 DOUGLS CER FOR ROCKY REACH	1	0	0	3	0	0	0	0	0	0	0	0	
35 CHELAN CER FOR ROCKY REACH	3	3	3	3	2	1	1	1	1	1	1	0	
36 COLOCK CER FOR ROCKY REACH	5	5	5	4	3	2	2	2	2	1	1	0	
37 ROCKY REACH CANADIAN ENT	21	20	20	19	14	9	9	8	5	5	0	0	

WELLS CANADIAN ENTITLEMENT

38 PP&L CER FOR WELLS	1	1	1	1	1	1	0	0	0	0	0	0
39 PGE CER FOR WELLS	4	3	3	3	2	1	1	1	1	1	0	0
40 PSP&L CER FOR WELLS	5	5	5	5	4	2	2	2	2	1	1	0
41 WMP CER FOR WELLS	1	1	1	0	0	0	0	0	0	0	0	0
42 DOUGLS CER FOR WELLS	4	4	3	3	2	1	1	1	1	1	0	0
43 OKANOG CER FOR WELLS	1	1	1	1	1	1	1	1	1	0	0	0
44 WELLS CANADIAN ENTITLEMENT	16	15	14	13	10	6	5	5	3	3	0	0

45 TOTAL CANADIAN ENT

TOTAL CANADIAN ENTITLEMENT

45 TOTAL CANADIAN ENT	275	263	251	236	178	102	98	94	62	0	0	0
TOTAL CANADIAN ENTITLEMENT												
46 FEDERAL SYSTEM	217	208	198	186	140	79	76	73	48	0	0	0
47 PUBLIC AGENCIES W/COLOCKUM	24	22	20	20	14	8	8	8	5	0	0	0
48 PRIVATE UTILITIES	34	33	33	30	24	15	14	13	9	0	0	0
49 TOTAL	275	263	251	236	178	102	98	94	62	0	0	0

TABLE A-14

SUPPLEMENTAL AND ENTITLEMENT CAPACITY
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
2 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0
3 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0
6 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0
7 OTHER PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0
8 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0
9 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
10 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
11 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0
12 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0
13 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0
14 TOTAL SUPP & ENT CAPACITY	0	0	0	0	0	0	0	0	0	0
TOTAL SUPPLEMENT & ENTITLEMENT CAPACITY										
15 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0
16 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0
17 TOTAL SUPP & ENT CAPACITY	0	0	0	0	0	0	0	0	0	0

TABLE A-13

COLUMBIA STORAGE POWER EXCHANGE (CSPE) PURCHASE
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1 CHELAN COUNTY PUD #1	3	3	3	2	2	1	1	1	1	0
2 CLARK PUBLIC UTILITIES	8	8	8	7	5	3	3	3	2	0
3 COWLITZ COUNTY PUD #1	7	7	6	6	5	3	3	2	1	0
4 DOUGLAS COUNTY PUD #1	1	1	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	15	14	14	13	10	6	5	5	3	0
6 GRANT COUNTY PUD #1	1	1	1	1	1	0	0	0	0	0
7 GRAYS HARBOR COUNTY PUD #1	4	4	4	4	3	2	2	1	1	0
8 OTHER PUBLIC AGENCIES	25	24	23	22	16	9	9	9	6	0
9 PEND OREILLE COUNTY PUD #1	1	0	0	0	0	0	0	0	0	0
10 PORTLAND GENERAL ELECTRIC	48	46	44	41	31	18	17	17	11	0
11 PACIFIC POWER & LIGHT	28	26	25	24	18	10	10	9	6	0
12 PUGET SOUND POWER & LIGHT	48	46	44	41	31	18	17	17	11	0
13 SEATTLE CITY LIGHT	34	33	31	30	22	13	12	12	8	0
14 SNOHOMISH COUNTY PUD #1	4	4	4	4	3	1	2	1	1	0
15 TACOMA PUBLIC UTILITIES	34	33	31	29	22	13	12	12	8	0
16 WASHINGTON WATER POWER	14	13	13	12	9	5	5	5	3	0
17 TOTAL CSPE PURCHASE	275	263	251	236	178	102	98	94	62	0
TOTAL CSPE PURCHASE										
18 PUBLIC AGENCIES	137	132	125	118	89	51	49	46	31	0
19 PRIVATE UTILITIES	138	131	126	118	89	51	49	48	31	0
20 TOTAL	275	263	251	236	178	102	98	94	62	0

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CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1, 1998

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
BPA CANADIAN ENTITLEMENT										
1 BPA CANADIAN ENTITLEMENT	0	0	0	13	106	232	232	230	290	411
PRIEST RAPIDS CANADIAN ENTITLEMENT										
2 PP&L CER FOR PRIEST R.	0	0	0	0	1	2	1	1	2	3
3 PGE CER FOR PRIEST R.	0	0	0	0	1	1	1	1	2	3
4 PSP&L CER FOR PRIEST R.	0	0	0	0	1	1	1	1	1	1
5 SEATTL CER FOR PRIEST R.	0	0	0	0	0	1	1	1	1	1
6 TACOMA CER FOR PRIEST R.	0	0	0	0	1	1	1	1	1	2
7 HWP CER FOR PRIEST R.	0	0	0	0	0	1	1	1	1	1
8 GRANT CER FOR PRIEST R.	0	0	0	1	2	4	4	4	5	7
9 EUGENE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
10 COWLIZ CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
11 F GROV CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
12 MCMINN CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
13 M FREE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
14 KITITS CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0
15 PRIEST CANADIAN ENTITLEMENT	0	0	0	1	5	11	10	10	13	18
WANAPUM CANADIAN ENTITLEMENT										
16 PP&L CER FOR WANAPUM	0	0	0	0	1	3	3	3	3	4
17 PGE CER FOR WANAPUM	0	0	0	0	1	3	3	3	3	4
18 PSP&L CER FOR WANAPUM	0	0	0	0	1	1	1	1	2	3
19 HWP CER FOR WANAPUM	0	0	0	0	1	1	1	1	1	2
20 GRANT CER FOR WANAPUM	0	0	0	1	2	5	5	5	6	9
21 EUGENE CER FOR WANAPUM	0	0	0	0	0	0	0	0	1	1
22 COWLIZ CER FOR WANAPUM	0	0	0	0	0	0	0	0	1	1
23 F GROV CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0
24 MCMINN CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0
25 M FREE CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0
26 WANAPUM CANADIAN ENT	0	0	0	1	6	13	13	13	17	24
ROCK ISLAND CANDIAN ENTITLEMENT										
27 CHELAN CER FOR ROCK ISLAND	0	0	0	0	0	0	0	0	0	0
28 PSP&L CER FOR ROCK ISLAND	0	0	0	0	1	3	3	3	4	5
29 ROCK I CANADIAN ENTITLEMENT	0	0	0	0	1	3	3	3	4	5

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CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1, 1998

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
ROCKY REACH CANDIAN ENTITLEMENT										
30 PP&L CER FOR ROCKY REACH	0	0	0	0	1	1	1	1	2	2
31 PGE CER FOR ROCKY REACH	0	0	0	0	1	3	3	3	3	5
32 PSP&L CER FOR ROCKY REACH	0	0	0	1	4	9	9	9	12	17
33 WWP CER FOR ROCKY REACH	0	0	0	0	0	1	1	1	1	1
34 DOUGLS CER FOR ROCKY REACH	0	0	0	0	0	1	1	1	1	1
35 CHELAN CER FOR ROCKY REACH	0	0	0	0	2	4	4	4	4	6
36 COLOCK CER FOR ROCKY REACH	0	0	0	0	3	5	5	5	7	10
37 ROCKY REACH CANADIAN ENT	0	0	0	1	11	24	24	24	30	42
WELLS CANADIAN ENTITLEMENT										
38 PP&L CER FOR WELLS	0	0	0	0	0	1	1	1	1	2
39 PGE CER FOR WELLS	0	0	0	0	2	4	4	4	5	7
40 PSP&L CER FOR WELLS	0	0	0	1	3	6	6	6	7	11
41 WWP CER FOR WELLS	0	0	0	0	0	1	1	1	1	1
42 DOUGLS CER FOR WELLS	0	0	0	0	2	4	4	4	5	7
43 OKANOG CER FOR WELLS	0	0	0	0	1	1	1	1	2	2
44 WELLS CANADIAN ENTITLEMENT	0	0	0	1	8	17	17	17	21	30
45 TOTAL CANADIAN ENT	0	0	0	17	137	300	299	297	375	530
TOTAL CANADIAN ENTITLEMENT										
46 FEDERAL SYSTEM	0	0	0	13	106	232	232	230	290	411
47 PUBLIC AGENCIES W/COLOCKUM	0	0	0	2	13	26	26	26	34	47
48 PRIVATE UTILITIES	0	0	0	2	18	42	41	41	51	72
49 TOTAL	0	0	0	17	137	300	299	297	375	530

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CONTRACTS BETWEEN UTILITIES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	OPERATING YEAR												
	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	Avg	Avg	
1 BPA TO CLARK, PKWD LAKE	0	0	0	0	0	1	0	0	0	0	0	0	0
2 BPA TO MPC, MNPI OBLIG	65	61	1	0	0	0	0	0	0	0	0	0	0
3 BPA TO MPC, CAP/NRG XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA TO OTHER, PKWD LAKE	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO PP&L, CAP SLE, BRIDGE	94	94	94	94	94	94	94	94	94	94	94	94	94
6 BPA TO PP&L, SOUTHERN IDAHO	68	64	0	0	0	0	0	0	0	0	0	0	0
7 BPA TO PP&L, MNPI OBLIG	68	64	66	66	66	66	66	66	66	66	66	66	66
8 BPA TO PP&L, MNPI OBLIG	68	63	0	0	0	0	0	0	0	0	0	0	0
9 BPA TO PGE, MNPI OBLIG	54	54	54	65	65	64	65	65	65	65	65	65	65
10 BPA TO PGE, MNPI SETTLE	1	1	1	1	1	1	1	1	1	1	1	1	1
11 BPA TO PSP&L, BAKER HD LOSS	75	75	75	75	75	75	75	75	75	75	75	75	75
12 BPA TO PSP&L, PS & PWR XCHG	68	63	0	0	0	0	0	0	0	0	0	0	0
13 BPA TO PSP&L, MNPI OBLIG	34	34	34	34	34	34	34	34	34	34	34	34	34
14 BPA TO PSP&L, MNPI SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0
15 BPA TO WHP, SRPLS CAPAC SLE	68	61	0	0	0	0	0	0	0	0	0	0	0
16 BPA TO WHP, MNPI OBLIG	26	27	26	32	32	32	32	32	32	32	32	32	32
17 BPA TO WHP, MNPI SETTLE	1	0	0	0	0	0	0	0	0	0	0	0	0
18 CHELAN TO DOUG, CAP/NRG XCH	2	2	2	2	2	2	2	2	2	2	2	2	2
19 CHELAN TO PGE, C/N TRANS/XCH	0	0	0	0	0	0	0	0	0	0	0	0	0
20 COLOCKUM TO PP&L, CAP/NRG X	0	0	0	0	0	0	0	0	0	0	0	0	0
21 COLOCKUM TO CHELAN, PK SALE	1	1	1	1	1	1	1	1	1	1	1	1	1
22 DOUGLAS TO CHEL, CAP/NR XCH	10	10	10	10	10	10	10	10	10	10	10	10	10
23 GRANT TO PP&L, PWR SALE	8	8	9	8	7	10	10	10	10	10	10	10	10
24 IDAHO TO OR TRAIL, RPLC SLE	15	15	15	15	15	15	15	15	15	15	15	15	15
25 IDAHO TO SCL, ENERGY XCHG	13	12	12	6	0	0	0	0	0	0	0	0	0
26 IDAHO TO MPC, SEAS PWR XCHG	52	43	0	0	0	0	0	0	0	0	0	0	0
27 IDAHO TO MPC, PWR SALE	30	29	29	30	30	30	30	30	30	30	30	30	30
28 MPC TO BPA, CAP/NRG XCHG	53	27	0	0	0	0	0	0	0	0	0	0	0
29 MPC TO BPA, POWER SALE	13	12	12	6	0	0	0	0	0	0	0	0	0
30 MPC TO ID, SEAS PWR XCHG	10	4	0	0	0	0	0	0	0	0	0	0	0
31 MPC TO PP&L, PWR SALE	71	71	71	71	71	71	71	71	71	71	71	71	71
32 MPC TO PP&L, PWR SALE	18	0	0	0	0	0	0	0	0	0	0	0	0
33 MPC TO WHP, PWR SALE	1	1	1	1	1	1	1	1	1	1	1	1	1
34 OTHER TO PSP&L, SP PURCHASE	3	3	3	3	3	3	3	3	3	3	3	3	3
35 NO WASCO TO PSP&L, SALE	0	0	0	0	0	0	0	0	0	0	0	0	0
36 PP&L TO BPA, MNPI SETTLE	23	23	65	65	65	65	65	65	65	65	65	65	65
37 PP&L TO COLOCKUM, CAP/NRG X	120	120	23	23	23	23	23	23	23	23	23	23	23
38 PP&L TO PSP&L, PWR SALE 2	15	12	12	12	12	12	12	12	12	12	12	12	12
39 PEND 0 TO SCL, PWR SALE	54	54	54	64	64	64	64	64	64	64	64	64	64
40 PGE TO BPA, MNPI SETTLE	4	4	3	3	3	3	3	3	3	3	3	3	3
41 PGE TO CHELAN, CAP/NRG XCHG	3	3	3	3	3	3	3	3	3	3	3	3	3
42 PGE TO PP&L, COVE REPLACE	32	32	32	32	32	32	32	32	32	32	32	32	32
43 PSP&L TO BPA, MNPI SETTLE	58	29	0	0	0	0	0	0	0	0	0	0	0
44 PSP&L TO BPA, POWER SALE	0	0	0	0	0	0	0	0	0	0	0	0	0
45 PSP&L TO BPA, SEAS PWR XCHG	23	27	0	0	0	0	0	0	0	0	0	0	0
46 SCL TO PEND 0, PWR SALE	14	14	14	14	14	14	14	14	14	14	14	14	14
47 SCL TO IDAHO, SEAS PWR XCHG	4	4	4	4	4	4	4	4	4	4	4	4	4
48 SCL TO TACOMA, SEAS PWR XCHG	5	5	5	5	5	5	5	5	5	5	5	5	5
49 SNOH TO PSP&L, SP PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A-16 (CONTINUED)

CONTRACTS BETWEEN UTILITIES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
50 TCL TO SEATTLE, SEAS PWR XCH	4	4	4	4	4	3	4	4	4	4
51 WWP TO BPA, WNP3 SETTLE	27	27	27	32	32	32	32	32	32	32
52 WWP TO PP&L, PWR SALE	50	40	23	8	0	0	0	0	0	0
53 WWP TO PP&L, SANDPOINT PWR	2	1	0	0	0	0	0	0	0	0
54 WWP TO PEND OREILLE, SALE	9	4	-1	-1	-1	-1	-1	-1	-1	-1
55 WWP TO PGE, CAPACITY SALE	58	29	0	0	-1	0	0	-1	0	0
56 WWP TO PSP&L, PWR SALE 2	75	75	75	75	75	75	62	38	10	0
57 TOTAL CONTRACTS	1502	1342	1006	1011	990	982	967	935	906	762
TOTAL CONTRACTS OUT										
58 FEDERAL CONTRACTS OUT	621	596	350	367	367	367	366	341	341	341
59 PUBLIC CONTRACTS OUT W/CLOK	83	83	83	83	83	83	83	77	77	69
60 PRIVATE CONTRACTS OUT	798	663	573	561	540	532	518	517	488	352
61 TOTAL CONTRACTS OUT	1502	1342	1006	1011	990	982	967	935	906	762
TOTAL CONTRACTS IN										
62 FEDERAL CONTRACTS IN	254	198	207	223	224	223	221	245	245	245
63 PUBLIC CONTRACTS IN W/CLOK	107	102	97	97	96	89	89	89	87	52
64 PRIVATE CONTRACTS IN	1141	1042	702	691	670	670	657	601	574	465
65 TOTAL CONTRACTS IN	1502	1342	1006	1011	990	982	967	935	906	762

NOTE: BPA TO PSP&L IS SHOWN AS A POWER SALE THROUGH JUNE 30, 2001. THE CONTRACT THEN CONVERTS TO A SEASONAL POWER EXCHANGE WHICH EXPIRES JULY 1, 2008.

TABLE A-17

CAPACITY RESERVES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1 HYDRO,SM THML,C-T, & MISC.	0	0	0	0	0	0	0	0	0	0
2 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0
3 AREA RESERVES	0	0	0	0	0	0	0	0	0	0

HYDRO, SMALL THERMAL, COMBUSTION TURBINES, & MISCELLANEOUS RESERVES

4 FEDERAL	0	0	0	0	0	0	0	0	0	0
5 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
6 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0
7 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
8 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
9 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0
10 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0
11 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
12 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0
13 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
14 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0
15 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0
16 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0
17 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0
18 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
19 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0
20 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
21 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0
22 TOTAL HYDRO & MISC. RES.	0	0	0	0	0	0	0	0	0	0

TOTAL HYDRO, SMALL THERMAL, COMBUSTION TURBINES, & MISCELLANEOUS RESERVES

23 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0
24 PUBLIC AGENCIES W/COLOCKUM	0	0	0	0	0	0	0	0	0	0
25 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0
26 TOTAL HYDRO & MISC. RES.	0	0	0	0	0	0	0	0	0	0

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TABLE A-17 (CONTINUED)

CAPACITY RESERVES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95	1995-96	1996-97	1997-98	1998-99	1999- 0	2000- 1	2001- 2	2002- 3	2003- 4
	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
LARGE THERMAL RESERVES										
27 FEDERAL	0	0	0	0	0	0	0	0	0	0
28 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
29 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
30 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
31 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0
32 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0
33 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
34 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0
35 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
36 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0
37 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0
38 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0
39 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0
40 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
41 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0
42 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
43 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0
44 TOTAL LARGE THERMAL RES.	0	0	0	0	0	0	0	0	0	0
LARGE THERMAL RESERVES										
45 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0
46 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0
47 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0
48 TOTAL THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0

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TABLE A-18

WELLS AND CHELAN ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1 WELLS	427	427	427	427	427	427	427	427	427	427
2 WELLS AFTER ENC.	382	382	382	382	382	382	382	382	382	382
3 PP&L SHARE	29	29	29	29	29	29	29	29	29	29
4 PGE SHARE	87	87	87	87	87	87	87	87	87	87
5 PSP&L SHARE	133	133	133	133	133	133	133	133	133	133
6 WWP SHARE	15	15	15	15	15	15	15	15	15	15
7 DOUGLS SHARE	87	87	87	87	87	87	87	87	87	87
8 OKANOG CO. PUD SHARE PUB	32	32	32	32	32	32	32	32	32	32
9 WELLS AFTER ENC. DGLS	382	382	382	382	382	382	382	382	382	382
10 CHELAN	35	35	35	35	36	36	36	36	36	36
11 CHELAN AFTER ENC.	38	38	38	38	39	39	39	39	39	39
12 TO CHELAN FR WWP, CONTRACT	18	0	0	0	0	0	0	0	0	0
13 CHELAN SH OF CHELAN PROJ	3	38	38	38	39	39	39	39	39	39
14 CHELAN SHARE (PROJ+CONT)	21	38	38	38	39	39	39	39	39	39
15 WWP SHARE	17	0	0	0	0	0	0	0	0	0
16 CHELAN AFTER ENC. CHLN	38	38	38	38	39	39	39	39	39	39

TABLE A-19

ROCKY REACH AND ROCK ISLAND ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1 ROCKY REACH	594	594	594	594	594	594	594	594	594	594
2 ROCKY REACH AFTER ENC.	612	612	612	612	612	612	612	612	612	612
3 PP&L SHARE	32	32	32	32	32	32	32	32	32	32
4 PGE SHARE	73	73	73	73	73	73	73	73	73	73
5 PSP&L SHARE	238	238	238	238	238	238	238	238	238	238
6 WWP SHARE	18	18	18	18	18	18	18	18	18	18
7 DOUGLS SHARE	17	17	17	17	17	17	17	17	17	17
8 CHELAN SHARE	93	93	93	93	93	93	93	93	93	93
9 COLOCK SHARE	141	141	141	141	141	141	141	141	141	141
10 RKY REACH AFTER ENC. CHLN	612	612	612	612	612	612	612	612	612	612
11 ROCK ISLAND	288	288	288	288	289	289	289	289	289	289
12 ROCK ISLAND AFTER ENC. 1&2	357	357	357	357	357	357	357	357	357	357
13 1ST PWRHOUSE AFTER ENC.	230	230	230	230	230	230	230	230	230	230
14 CHELAN SHARE	10	10	10	10	10	10	10	10	10	10
15 PSP&L SHARE	220	220	220	220	220	220	220	220	220	220
16 RI 2ND POWERHOUSE	127	127	127	127	127	127	127	127	127	127
17 CHELAN SHARE	0	0	0	0	0	1	14	26	39	52
18 PSP&L SHARE	127	127	127	127	127	127	114	101	88	76
19 CHELAN TOTAL SHARE	10	10	10	10	10	11	23	36	49	62
20 PSP&L TOTAL SHARE	347	347	347	347	347	346	334	321	308	295
21 ROCK ISLAND CHLN	357	357	357	357	357	357	357	357	357	357

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TABLE A-20

WANAPUM AND PRIEST RAPIDS ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1 WANAPUM	521	521	521	521	535	535	535	535	535	535
2 WANAPUM AFTER ENC.	448	448	448	448	462	462	462	462	462	462
3 PP&L SHARE	84	84	84	84	87	87	87	87	87	87
4 PGE SHARE	84	84	84	84	86	86	86	86	86	86
5 PSP&L SHARE	48	48	48	48	50	50	50	50	50	50
6 WWP SHARE	37	37	37	37	38	38	38	38	38	38
7 GRANT SHARE	164	164	164	164	169	169	169	169	169	169
8 EUGENE SHARE	10	10	10	10	11	11	11	11	11	11
9 COWLIZ SHARE	12	12	12	12	12	12	12	12	12	12
10 F GROV SHARE	3	3	3	3	3	3	3	3	3	3
11 MCMINN SHARE	3	3	3	3	3	3	3	3	3	3
12 M FREE SHARE	3	3	3	3	3	3	3	3	3	3
13 WANAPUM AFTER ENC. GRNT	448	448	448	448	462	462	462	462	462	462
14 PRIEST RAPIDS	503	503	503	503	510	510	510	510	510	510
15 PRIEST RAPIDS AFTER ENC.	487	487	487	487	494	494	494	494	494	494
16 PP&L SHARE	68	68	68	68	69	69	69	69	69	69
17 PGE SHARE	68	68	68	68	69	69	69	69	69	69
18 PSP&L SHARE	39	39	39	39	40	40	40	40	40	40
19 SEATTL SHARE	39	39	39	39	39	39	39	39	39	39
20 TACOMA SHARE	39	39	39	39	40	40	40	40	40	40
21 WWP SHARE	30	30	30	30	30	30	30	30	30	30
22 GRANT SHARE	178	178	178	178	180	180	180	180	180	180
23 EUGENE SHARE	8	8	8	8	8	8	8	8	8	8
24 COWLIZ SHARE	10	10	10	10	10	10	10	10	10	10
25 F GROV SHARE	2	2	2	2	2	2	2	2	2	2
26 MCMINN SHARE	2	2	2	2	3	3	3	3	3	3
27 M FEE SHARE	2	2	2	2	2	2	2	2	2	2
28 KIATS SHARE	2	2	2	2	2	2	2	2	2	2
29 PRST RPDS AFTER ENC. GRNT	487	487	487	487	494	494	494	494	494	494

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TABLE A-21

SWIFT 1 AND SWIFT 2 ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1 SWIFT 1	53	53	53	53	53	53	53	53	53	53
2 COWLIZ SHARE	14	14	14	14	14	14	14	14	14	14
3 PP&L SHARE (SYSTEM)	39	39	39	39	39	39	39	39	39	39
4 SWIFT 1 PP&L	53	53	53	53	53	53	53	53	53	53
5 SWIFT 2	20	20	20	20	20	20	20	20	20	20
6 COWLIZ SHARE	5	5	5	5	5	5	5	5	5	5
7 PP&L SHARE (SYSTEM)	15	15	15	15	15	15	15	15	15	15
8 SWIFT 2 COW	20	20	20	20	20	20	20	20	20	20

TABLE A-22

POWER SALES CONTRACTS SALES BY BPA

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
PUBLIC UTILITIES										
PRIORITY FIRM RATE SALES										
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
2 COWLITZ COUNTY PUD #1	481	486	499	504	514	521	528	534	541	547
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BOARD	242	248	256	262	269	277	281	284	290	296
5 GRANT COUNTY PUD #2	25	27	35	41	40	47	50	53	58	65
6 PEND OREILLE COUNTY PUD #1	37	31	32	33	35	36	31	32	33	34
7 SEATTLE CITY LIGHT	193	215	245	264	290	311	331	343	357	376
8 SNOHOMISH COUNTY PUD #1	526	551	579	584	595	607	612	617	623	629
9 TACOMA PUBLIC UTILITIES	259	268	288	296	308	320	326	335	346	360
10 SM & NON GEN PUBLICS	3234	3282	3348	3413	3481	3540	3579	3615	3654	3699
11 TOTAL SALES	4996	5107	5281	5396	5532	5659	5738	5813	5902	6006
PRIVATE UTILITIES										
NEW RESOURCES RATE PURCHASES										
12 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0
13 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0
14 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
15 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0
16 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
17 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0
18 TOTAL SALES	0	0	0	0	0	0	0	0	0	0

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TABLE A-23

NON-UTILITY GENERATING RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
2 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BRD	9	9	9	9	9	9	9	9	9	9
5 GRANT COUNTY PUD #2	7	7	7	7	7	7	7	7	7	7
6 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
7 SEATTLE CITY LIGHT	65	65	65	65	65	65	65	65	66	65
8 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
9 TACOMA PUBLIC UTILITIES	25	25	25	25	25	25	25	25	25	25
10 SMALL & NON GEN PUBLICS	13	8	8	8	8	8	8	8	8	8
11 IDAHO POWER COMPANY DED	93	135	157	157	157	157	157	157	157	157
12 MONTANA POWER CO. REGIONAL	16	26	32	32	32	32	32	29	29	30
13 PACIFIC POWER & LIGHT DED	51	51	51	51	51	51	51	51	51	51
14 PORTLAND GENERAL ELECTRIC	28	28	28	28	28	28	28	28	28	28
15 PUGET SOUND POWER & LIGHT	610	609	610	609	601	601	601	601	601	601
16 WASHINGTON WATER POWER	66	66	66	66	66	66	66	36	11	11
17 TOTAL NON-UTILITY GEN	983	1029	1058	1057	1049	1049	1049	1016	992	992
TOTAL REGIONAL NON-UTILITY GENERATION										
18 PUBLIC AGENCIES	120	114	114	114	115	115	115	115	115	115
19 PRIVATE UTILITIES	863	915	944	943	934	934	934	901	877	877
20 TOTAL NON-UTILITY GEN	983	1029	1058	1057	1049	1049	1049	1016	992	992
SOME OF MONTANA POWER COMPANY'S NON-UTILITY GENERATION IS NOT INCLUDED IN THE REGION. ALL OF MONTANA'S RESOURCES ARE ASSUMED TO SERVE ALL OF THEIR LOADS. THEREFORE, NON-UTILITY GENERATION IS PRORATED TO THE PERCENT OF THEIR REGIONAL LOAD COMPARED TO THEIR TOTAL LOAD.										
21 MONTANA NON-REGIONAL NUG	30	59	53	53	54	54	54	56	56	56
UTAH POWER AND LIGHT'S NON-UTILTIY GENERATION IS EXCLUDED FROM THIS TABLE SINCE NO INDIVIDUAL UTAH RESOURCES ARE MODELED IN THIS REPORT. UTAH'S REGIONAL LOAD IS ASSUMED TO SERVED WITH AN IMPORT OF POWER EQUAL TO THEIR LOAD.										
22 UTAH, NON-UTILITY GENERATION	8	8	8	8	8	8	8	8	8	8
TOTAL NON-UTILITY GENERATION WHICH MATCHES THE TOTAL NUG GENERATION IN THE 1992 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY, NON-UTILITY GENERATION SUMMARY.										
23 TOTAL NON-UTILITY GEN	1021	1097	1119	1118	1111	1111	1111	1080	1056	1055

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TABLE A-24

DEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
PUBLIC AGENCIES										
1 CHELAN COUNTY PUD #1	193	216	221	225	229	233	247	260	273	283
2 COWLITZ COUNTY PUD #1	50	50	50	50	49	47	47	46	44	43
3 DOUGLAS COUNTY PUD #1	100	100	100	99	99	97	97	97	96	95
4 EUGENE WATER & ELEC BOARD	59	58	58	57	55	51	50	50	47	44
5 GRANT COUNTY PUD #2	288	289	289	287	293	289	289	289	288	285
6 PEND OREILLE COUNTY PUD #1	-2	4	4	4	4	4	10	10	10	10
7 SEATTLE CITY LIGHT	881	872	871	872	864	855	847	845	842	835
8 SNOHOMISH COUNTY PUD #1	140	138	138	140	139	137	138	135	136	136
9 TACOMA PUBLIC UTILITIES	395	394	393	395	394	391	390	389	384	377
10 SM & NON GEN PUBLIC (CL+GH)	134	128	129	126	117	101	100	100	96	87
11 TOTAL PUBLIC AGENCIES	2239	2249	2253	2255	2243	2205	2215	2221	2215	2195
PRIVATE UTILITIES										
12 IDAHO POWER COMPANY	1358	1405	1414	1427	1434	1474	1485	1490	1481	1519
13 MONTANA POWER CO. REGIONAL	370	328	288	288	287	287	286	290	292	295
14 PACIFIC POWER & LIGHT	2443	2304	2287	2286	2214	2205	2206	2114	2131	2126
15 PORTLAND GENERAL ELECTRIC	678	876	894	893	898	881	880	879	872	859
16 PUGET SOUND POWER & LIGHT	1507	1497	1432	1385	1371	1353	1340	1326	1303	1275
17 WASHINGTON WATER POWER	734	696	697	700	698	692	691	689	687	686
18 TOTAL PRIVATE UTILITIES	7090	7106	7012	6979	6902	6892	6888	6788	6766	6760
19 TOTAL DEDICATED RESOURCES	9329	9355	9265	9234	9145	9097	9103	9009	8981	8955

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TABLE A-25

NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
PUBLIC AGENCIES										
1 CHELAN COUNTY PUD #1	-67	-72	-78	-82	-87	-91	-93	-94	-94	-93
2 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BOARD	17	17	17	17	17	17	17	17	17	17
5 GRANT COUNTY PUD #2	42	42	42	42	42	42	42	42	42	42
6 PEND OREILLE COUNTY PUD #1	71	66	61	61	61	61	61	61	61	61
7 SEATTLE CITY LIGHT	-10	-10	-10	-10	3	-11	-10	-10	-10	-17
8 SNOHOMISH COUNTY PUD #1	-5	-5	-5	-5	-5	-5	-5	0	0	0
9 TACOMA PUBLIC UTILITIES	-23	-24	-26	-29	-35	-38	-40	-40	-39	-39
10 SM & NON GEN PUBLIC (CL+GH)	-4	-4	-4	43	43	43	43	43	43	44
11 TOTAL PUBLIC AGENCIES	20	9	-3	37	40	18	15	19	21	16
PRIVATE UTILITIES										
12 IDAHO POWER COMPANY	180	189	233	232	231	232	232	232	232	238
13 MONTANA POWER CO. REGIONAL	-10	32	74	74	72	72	72	68	69	69
14 PACIFIC POWER & LIGHT	-371	-370	-445	-461	-470	-471	-472	-474	-473	-363
15 PORTLAND GENERAL ELECTRIC	740	737	673	675	759	757	758	760	758	759
16 PUGET SOUND POWER & LIGHT	1245	1245	1245	1245	1237	1237	1223	1119	1091	991
17 WASHINGTON WATER POWER	223	232	192	208	215	216	228	222	225	236
18 TOTAL PRIVATE UTILITIES	2007	2065	1972	1973	2044	2043	2041	1927	1902	1930
19 TOTAL NONDEDICATED RES	2027	2074	1969	2010	2084	2061	2056	1946	1923	1946

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TABLE A-26

FEDERAL RESOURCE OPTIONS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
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SURPLUS POWER SALES SUBJECT TO 60-DAY RECALL UNDER PUBLIC LAW 88-552

1 BPA TO BURBANK, POWER SALE	16	16	16	16	16	16	16	16	16	16
2 BPA TO GLENDALE, POWER SALE	8	8	8	8	8	8	8	8	8	8
3 BPA TO PASADENA, POWER SALE	3	3	3	3	3	3	3	3	3	3
4 BPA TO MSR, POWER SALE	50	50	75	75	75	75	75	75	75	75
5 BPA TO SCE, POWER SALE	134	134	134	134	134	134	134	134	134	134
6 FED CONTRACTS 60-DAY RECALL	212	212	237	237	237	237	237	237	237	237

EXCHANGE ENERGY FROM PSW CAPACITY/ENERGY EXCHANGES FROM TERMINATED PSW SURPLUS POWER SALES

7 BURBANK TO BPA, CAP/NRG X	4	4	4	4	4	4	4	4	4	4
8 GLENDALE TO BPA, CAP/NRG X	4	4	4	4	4	4	4	4	4	4
9 PASADENA TO BPA, CAP/NRG X	4	4	4	4	4	4	4	4	4	4
10 MSR TO BPA, CAP/NRG XCHG	17	17	21	25	25	25	25	25	25	25
11 SCE TO BPA, CAP/NRG XCHG	41	40	39	37	36	35	34	33	31	30
12 FED EXCHANGE NRG FROM PSW	69	68	71	74	73	71	70	69	68	67

OPTIONAL PURCHASE RIGHTS IN PSW CAPACITY/ENERGY EXCHANGES FROM TERMINATED PSW SURPLUS POWER SALES

13 BURBANK TO BPA, SUPPLM NRG	1	1	1	1	1	1	1	1	1	1
14 GLENDALE TO BPA, SUPPLM NRG	1	1	1	1	1	1	1	1	1	1
15 PASADENA TO BPA, SUPPLM NRG	1	1	1	1	1	1	1	1	1	1
16 SCE TO BPA, SUPPLEMENTAL NRG	33	34	35	36	37	39	40	41	42	43
17 TOTAL SUPPLEMENTAL ENERGY	36	37	38	39	41	42	43	44	46	47
18 SCE TO BPA, OPTION ENERGY	71	71	71	71	71	0	0	0	0	0
19 FED RES ADDITIONS FROM PSW	108	108	109	111	112	42	43	44	46	47

SURPLUS POWER SALES SUBJECT TO 5-YEAR RECALL UNDER PUBLIC LAW 75-329 AND PUBLIC LAW 88-552

20 BPA TO PSP&L, PWR SALE	0	0	0	0	0	75	75	0	0	0
21 FED CONTRACTS 5-YEAR RECALL	0	0	0	0	0	75	75	0	0	0
22 TOTAL RECALLABLE RESOURCES	388	388	418	422	422	425	426	350	351	351
23 CANADIAN NON-TREATY STORAGE	115	115	115	115	115	115	115	115	105	0
24 TOTAL RESOURCE OPTIONS	503	503	533	537	537	540	541	465	456	351

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TABLE A-27

PURCHASES FROM THE BPA SYSTEM BY RATE CLASS

M E D I U M L O A D S

OPERATING YEAR

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
GENERATING PUBLIC UTILITIES FIRM PURCHASES										
PARTNERSHIP PURCHASES										
1 DIAMOND W. P., EWEB *	0	0	0	0	0	0	0	0	0	0
SURPLUS FIRM PURCHASES										
2 BPA TO SNOH, SP PURCHASE	5	5	5	5	5	5	5	0	0	0
PRIORITY FIRM PURCHASES										
3 GEN PUB PURCHASE, PF RATE	1757	1820	1928	1978	2046	2114	2154	2198	2248	2307
TOTAL GENERATING PUBLIC UTILITIES FIRM PURCHASES										
4 TOTAL GEN PUBLIC PURCHASE	1757	1820	1928	1978	2046	2114	2154	2198	2248	2307
SMALL AND NON GENERATING PUBLIC UTILITIES FIRM PURCHASES										
RESOURCE ACQUISITIONS REFLECTED AS LOAD REDUCTIONS										
BILLING CREDITS										
5 CONSERVATION	0	0	0	0	0	0	0	0	0	0
6 GENERATION	0	0	0	0	0	0	0	0	0	0
COMPETITIVE ACQUISITIONS										
7 CONSERVATION	0	0	0	0	0	0	0	0	0	0
8 TOTAL ACQIS AS A LOAD SUBTR	0	0	0	0	0	0	0	0	0	0
9 TOTAL NON GEN PUB PURCHASE	3234	3282	3348	3413	3481	3540	3579	3615	3654	3699
PARTNERSHIP PURCHASES										
10 STAYING POWER, SUB DOW *	0	0	0	0	0	0	0	0	0	0
11 ELECTRIC VENTURES *	0	0	0	0	0	0	0	0	0	0
12 NON GEN PUBLIC PARTNERSHIP*	0	0	0	0	0	0	0	0	0	0
NEW RESOURCE RATE PURCHASES										
13 DIASHOWA, NR RATE	0	0	0	0	0	0	0	0	0	0
SURPLUS FIRM PURCHASES										
14 BPA TO S&NG, SP PURCH	1	1	1	1	1	1	1	0	0	0
PRIORITY FIRM PURCHASES										
15 NON GEN PUB PURCH, PF RATE	3233	3281	3347	3412	3480	3539	3578	3615	3654	3699
TOTAL PARTNERSHIP PURCHASES										
16 TOTAL PARTNERSHIP PURCHASE*	0	0	0	0	0	0	0	0	0	0
17 TOTAL SURPLUS FIRM PURCHASE	6	6	6	6	6	6	6	0	0	0

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EXTREME WEATHER ADJUSTMENT
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
BONEVILLE POWER ADMINISTRATION										
1A FEDERAL AGENCIES	0	0	0	0	0	0	0	0	0	0
1B FEDERAL + GEN PUB LOSSES	0	0	0	0	0	0	0	0	0	0
1C USBR	0	0	0	0	0	0	0	0	0	0
1D DSI ALUMINUM FIRM	0	0	0	0	0	0	0	0	0	0
1E DSI NON-ALUMINUM FIRM	0	0	0	0	0	0	0	0	0	0
1F DSI FIRM LOSSES	0	0	0	0	0	0	0	0	0	0
1 TOTAL BPA NON-UTILITY LOADS	0	0	0	0	0	0	0	0	0	0
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
3 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0
4 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0
7 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0
8 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0
9 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0
10 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
11 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
12 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0
13 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
14 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0
15 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0
16 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0
17 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0
18 UTAH POWER & LIGHT	0	0	0	0	0	0	0	0	0	0
19 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0
20 TOTAL	0	0	0	0	0	0	0	0	0	0
REGIONAL EXTREME WEATHER ADJUSTMENT										
21 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0
22 PUBLIC AGENCIES W/COLOCKUM	0	0	0	0	0	0	0	0	0	0
23 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0
24 REGIONAL FIRM LOADS	0	0	0	0	0	0	0	0	0	0

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SECTION VI: Annual Energy Analysis
DEDICATED AND NONDEDICATED RESOURCES

SECTION VI - DEDICATED AND NONDEDICATED RESOURCES

Energy Analysis

Section VI: Dedicated and Nondedicated Resources

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TABLE D-1

IDAHO POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS		OPERATING YEAR										
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG	
IDAHO POWER COMPANY DEDICATED RESOURCES												
HYDRO INDEPENDENTS												
1	SWAN FALLS	5B1A	17	17	17	17	17	17	17	17	17	17
2	C. J. STRIKE	5B1A	55	55	55	55	55	55	55	55	55	55
3	AMERICAN FALLS	5B1A	32	32	32	32	32	32	32	32	32	32
4	BLISS	5B1A	45	45	45	45	45	45	45	45	45	45
5	LOWER SALMON	5B1A	29	29	29	29	29	29	29	29	29	29
6	UPPER SALMON 1&2	5B1A	18	18	18	18	18	18	18	18	18	18
7	UPPER SALMON 3&4	5B1A	16	16	16	16	16	16	16	16	16	16
8	SHOSHONE FALLS	5B1A	10	10	10	10	10	10	10	10	10	10
9	SPRING PLANTS	5B1A	29	29	29	29	29	29	29	29	29	29
10	TWIN FALLS	5B1A	11	11	11	11	11	11	11	11	11	11
11	MILMER	5B1B	7	7	7	7	7	7	7	7	7	7
12	CASCADE	5B1A	4	4	4	4	4	4	4	4	4	4
REGULATED HYDRO												
13	HELLS CANYON	5B1A	190	190	190	190	190	190	190	190	190	190
14	OXBOW	5B1A	98	98	98	98	98	98	98	98	98	98
15	BROWNLEE	5B1A	242	242	242	242	243	243	243	243	243	243
16	TOTAL HYDRO		803	803	803	803	804	804	804	804	804	804
LARGE THERMAL												
17	JIM BRIDGER SHARE	5B1A	578	584	572	584	584	578	578	584	572	584
18	TOTAL THERMAL		578	584	572	584	584	578	578	584	572	584
OTHER RESOURCES												
19	WOOD RIVER	5B1A	1	1	1	1	1	1	1	1	1	1
20	NON-UTILITY GENERATION	5B1B	93	135	157	157	157	157	157	157	157	157
21	TOTAL OTHER RESOURCES		94	136	158	158	158	158	158	158	158	158
EXPORTS												
22	IDA TO SIERRA PAC,SLE1,5B1A		-11	-12	-11	-11	-11	0	0	0	0	0
23	IDA TO SIERRA PAC,SLE2,5B1A		-43	-43	-44	-44	-39	0	0	0	0	0
24	IDA TO UAMPS, SALE,5B1A		-46	-46	-46	-46	-46	-46	-46	-46	-46	-20
25	IDA TO AZUSA, BANN,CLT,5B1A		-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
26	IDA TO CTY OF WASH, UT,5B1A		-3	-3	-3	-3	-3	-3	-3	-3	0	0
27	TOTAL EXPORTS		-109	-110	-110	-110	-105	-66	-55	-55	-52	-26
IMPORTS												
CONTRACTS OUT												
28	IDA TO ORE TRAIL, SALE,5B1B		-8	-8	-9	-8	-7	0	0	-1	-1	-1
CONTRACTS IN												

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IDAHO POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAHATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
TOTAL DEDICATED RESOURCES										
29 ACQUIRED PRIOR TO ACT, 5B1A	1266	1271	1259	1271	1277	1310	1321	1327	1318	1356
30 ACQUIRED, POST ACT, 5B1B	92	134	155	156	157	164	164	163	163	163
31 TOTAL DEDICATED RESOURCES	1358	1405	1414	1427	1434	1474	1485	1490	1481	1519
NONDEDICATED RESOURCES										
32 LG THRM, VALMY	195	195	196	195	194	195	195	195	195	194
33 LG THRM, BOARDMAN SHARE	38	38	38	38	38	38	38	38	38	38
34 C.O., ID TO SCL, NRG SALE	-15	-15	-15	-15	-15	-15	-15	-15	-15	0
35 C.O., ID TO MPC, C/N XCHG	-13	-12	-12	-6	0	0	0	0	0	0
36 C.O., ID TO MPC, SALE	-52	-43	0	0	0	0	0	0	0	0
37 C.I., SCL TO ID, NRG SALE	14	14	14	14	14	14	14	14	14	6
38 C.I., MPC TO ID, C/N XCHG	13	12	12	6	0	0	0	0	0	0
39 ENERGY MANAG SYS ID	0	0	0	0	0	0	0	0	0	0
40 TOTAL NONDEDICATED RES	180	189	233	232	231	232	232	232	232	238
41 TOTAL RESOURCES	1538	1594	1647	1659	1665	1706	1717	1722	1713	1757

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TABLE D-2

MONTANA POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS		OPERATING YEAR										
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG	
MONTANA POWER COMPANY DEDICATED RESOURCES												
HYDRO INDEPENDENTS												
1	MYSTIC LAKE	5B1A	2	2	2	2	2	2	2	2	2	2
2	BLACK EAGLE	5B1A	5	4	5	5	5	5	5	5	5	5
3	HOLTER	5B1A	8	7	9	9	9	9	8	8	8	8
4	HAUSER	5B1A	4	4	4	5	5	4	4	4	4	4
5	MILLTOWN & FLINTCREEK	5B1A	0	0	0	0	0	0	0	0	0	0
6	MADISON	5B1A	3	2	3	3	3	3	2	2	2	3
7	RAINBOW	5B1A	10	9	11	11	11	11	10	10	10	10
8	COCHRANE	5B1A	8	6	8	8	8	8	7	8	8	8
9	RYAN	5B1A	2	2	2	2	2	2	2	2	2	2
10	MORONY	5B1A	9	7	10	9	9	9	9	9	9	9
11	HEBGEN	5B1B	0	0	0	0	0	0	0	0	0	0
REGULATED HYDRO												
12	KERR	5B1A	39	34	42	43	42	42	39	39	39	39
13	THOMPSON FALLS	5B1A	17	14	18	18	21	21	19	19	19	19
14	TOTAL HYDRO		107	91	114	115	117	116	107	108	109	109
LARGE THERMAL												
15	COLSTRIP 1&2 SHARE	5B1A	88	75	95	95	93	92	85	86	86	86
16	COLSTRIP 3 SHARE	5B1B	65	55	69	70	68	67	62	63	63	63
17	TOTAL THERMAL		153	130	164	165	161	159	147	149	149	149
OTHER RESOURCES												
18	BIRD, SMALL THERMAL	5B1B	0	0	0	0	1	1	1	1	1	1
19	NON-UTILITY GEN	5B1B	16	26	32	32	32	32	29	29	30	30
20	TOTAL OTHER RESOURCES		16	26	32	32	33	33	30	30	31	31
EXPORTS												
IMPORTS												
CONTRACTS OUT												
21	MPC TO ID, SEAS PWR X	5B1B	-13	-12	-12	-6	0	0	0	0	0	0
22	MPC TO BPA,C/N XCHG	5B1A	-30	-29	-29	-30	-30	-28	-1	-1	-1	-1
23	RESTORATION	5B1A	6	6	6	6	6	6	6	6	6	6
24	TOTAL CONTRACTS OUT		-37	-35	-35	-30	-24	-22	5	5	5	5

TABLE D-2 (CONTINUED)

MONTANA POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
CONTRACTS IN										
25 IDA TO MPC SEA PWR XCH 5B1B	13	12	12	6	0	0	0	0	0	0
26 IDA TO MPC, PWR SALE 5B1B	52	43	0	0	0	0	0	0	0	0
27 BPA TO MPC,WNP1 OBL 5B1B	65	61	1	0	0	0	0	0	0	0
28 BPA TO MPC,C/N XCHG 5B1A	0	0	0	0	0	0	0	0	0	0
29 TOTAL CONTRACTS IN7731 7734	65	61	1	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES										
30 ACQUIRED PRIOR TO ACT, 5B1A	172	143	186	186	186	186	186	198	199	201
31 ACQUIRED, POST ACT, 5B1B	198	185	102	102	101	101	100	92	93	94
32 TOTAL DEDICATED RESOURCES	370	328	288	288	287	287	286	290	292	295
NONDEDICATED RESOURCES										
33 REG HYDRO, KERR	3	2	3	3	3	3	3	3	3	3
34 LG THRM, COL4 50% SLD TO LA	185	185	185	185	185	185	185	185	185	185
35 EXPORT, MPC TO LA, PWR SALE	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91
36 SM TH & MISC, CORRETTE	45	38	48	48	46	46	46	42	43	43
37 C.O., MPC TO BPA, PWR SALE	-53	-27	0	0	0	0	0	0	0	0
38 C.O., MPC TO PP&L, PWR SALE	-10	-4	0	0	0	0	0	0	0	0
39 C.O., MPC TO PSP&L, PWR S	-71	-71	-71	-71	-71	-71	-71	-71	-71	-71
40 C.O., MPC TO WNP, PWR SALE	-18	0	0	0	0	0	0	0	0	0
41 TOTAL NONDEDICATED RES	-10	32	74	74	72	72	72	68	69	69
42 TOTAL RESOURCES	360	360	362	362	359	359	358	358	361	364

PACIFIC POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

MEGAWATTS		OPERATING YEAR									1993 WHITEBOOK:	12/19/93	
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG	RUN DATE:	01/19/94
PACIFIC POWER & LIGHT DEDICATED RESOURCES													
HYDRO INDEPENDENTS													
1	NORTH UMPQUA	5B1A	97	97	97	97	97	97	97	97	97	97	97
2	ROGUE	5B1A	34	34	34	34	34	34	34	34	34	34	34
3	KLAMATH	5B1A	22	22	22	22	22	22	22	22	22	22	22
4	CNDT, SM PLTS & BIG FK	5B1A	26	26	26	26	26	26	26	26	26	26	26
5	USBR GREENSPRINGS	5B1A	7	7	7	7	7	7	7	7	7	7	7
6	FELT	5B1A	1	1	1	1	1	1	1	1	1	1	1
REGULATED HYDRO													
7	WELLS DED SHARE	5B1A	27	27	27	27	27	27	27	27	27	27	27
8	ROCKY REACH SHARE	5B1A	32	32	32	32	32	32	32	32	32	32	32
9	HANAPUM SHARE	5B1A	84	84	84	84	87	87	87	87	87	87	87
10	PRIEST RAPIDS SHARE	5B1A	68	68	68	68	69	69	69	69	69	69	69
11	PELTON REREG DED SHARE	5B1B	8	8	8	8	8	8	8	8	8	8	8
12	SWIFT 1 SHARE	5B1A	39	39	39	39	39	39	39	39	39	39	39
13	SWIFT 2 SHARE	5B1A	15	15	15	15	15	15	15	15	15	15	15
14	YALE	5B1A	54	54	54	54	53	53	52	53	53	53	53
15	MERWIN	5B1A	46	46	46	46	50	50	50	50	50	50	50
16	TOTAL HYDRO		560	560	560	560	567	567	566	567	567	567	567
LARGE THERMAL													
17	CENTRALIA SHARE	5B1A	562	553	553	565	564	564	563	554	553	565	565
18	COLSTRIP 3 SHARE	5B1B	61	61	62	61	61	62	62	62	61	61	61
19	COLSTRIP 4 SHARE	5B1B	62	62	62	62	62	62	62	62	62	62	62
20	TOTAL LARGE THERMAL		685	676	677	688	687	688	687	678	676	688	688
OTHER RESOURCES													
21	NON-UTILITY GEN	5B1B	51	51	51	51	51	51	51	51	51	51	51
22	TOTAL OTHER RESOURCES		51	51	51	51	51	51	51	51	51	51	51
EXPORTS													
IMPORTS													
23	PP&L (WYO) TO PP&L	5B1A	1021	898	880	869	799	801	802	719	742	732	732
24	TOTAL IMPORTS		1021	898	880	869	799	801	802	719	742	732	732
CONTRACTS OUT													
25	CANADIAN ENTIT (CSPE)	5B1A	-5	-5	-5	-5	-4	-4	-3	-3	-2	0	0
26	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	-3	-7	-6	-6	-8	-11	-11
27	TOTAL CONTRACTS OUT		-5	-5	-5	-5	-7	-11	-9	-9	-10	-11	-11

TABLE D-3 (CONTINUED)

PACIFIC POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
CONTRACTS IN										
28 RESTORATION 5B1A	30	30	30	30	30	30	30	30	30	30
29 CSPE PURCHASE 5B1A	28	26	25	24	18	10	10	9	6	0
30 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0
31 PGE TO PP&L, COVE REP 5B1A	3	3	3	3	3	3	3	3	3	3
32 BPA TO PP&L, BRDG CAP S 5B1B	0	0	0	0	0	0	0	0	0	0
33 BPA TO PP&L, WNP1 OBLIG 5B1B	68	64	0	0	0	0	0	0	0	0
34 BPA TO PP&L, WNP3 STLE 5B1B	0	0	66	66	66	66	66	66	66	66
35 WNP TO PP&L, SANDPOINT 5B1A	2	1	0	0	0	0	0	0	0	0
36 TOTAL CONTRACTS IN	131	124	124	123	117	109	109	108	105	99
TOTAL DEDICATED RESOURCES										
37 ACQUIRED PRIOR TO ACT, 5B1A	2193	2058	2038	2038	1966	1956	1957	1865	1883	1878
38 ACQUIRED, POST ACT, 5B1B	250	246	249	248	248	249	249	249	248	248
39 TOTAL DEDICATED RESOURCES	2443	2304	2287	2286	2214	2205	2206	2114	2131	2126
NONDEDICATED RESOURCES										
40 M HYDRO, WELLS ND SHARE	2	2	2	2	2	2	2	2	2	2
41 EXP, PP&L TO PP&L N.CAL, PS	-8	-8	-9	-10	-11	-12	-13	-15	-16	-17
42 EXP, PP&L TO PG&E, PWR SALE	-29	-12	0	0	0	0	0	0	0	0
43 EXP, PP&L TO SMUD, PWR SALE	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
44 EXP, PP&L TO SCE, PWR SALE	-57	-57	-57	-57	-57	-57	-57	-57	-57	-57
45 EXP, PP&L TO CA DPT WTR RES	-71	-71	-71	-71	-71	-71	-71	-71	-71	-71
46 EXP, PP&L TO WAPA, PWR SALE	-189	-189	-189	-189	-189	-189	-189	-189	-189	-189
47 CONT OUT, PP&L TO BPA, WP3 S	0	0	-65	-65	-65	-65	-65	-65	-65	-65
48 CONT OUT, PP&L TO CHL, C/N X	-23	-23	-23	-23	-23	-23	-23	-23	-21	0
49 CONT OUT, PP&L TO PSP&L, PS2	-120	-120	-120	-120	-120	-120	-120	-120	-120	-30
50 CONT IN, BPA TO PP&L, SO ID	94	94	94	94	94	94	94	94	94	94
51 CONT IN, GRANT TO PP&L, PS	10	10	10	10	10	10	10	10	10	10
52 CONT IN, CHL TO PP&L, C/N X	0	0	0	0	0	0	0	0	0	0
53 CONT IN, MPC TO PP&L, SALE	10	4	0	0	0	0	0	0	0	0
54 CONT IN, WNP TO PP&L, PS	50	40	23	8	0	0	0	0	0	0
55 TOTAL NONDEDICATED RES	-371	-370	-445	-461	-470	-471	-472	-474	-473	-363
56 TOTAL RESOURCES	2072	1934	1842	1825	1744	1734	1734	1640	1658	1763

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TABLE D-4

PORTLAND GENERAL ELECTRIC
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAHATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
PORTLAND GENERAL ELECTRIC DEDICATED RESOURCES											
HYDRO INDEPENDENTS											
1	BULL RUN	5B1A	10	10	10	10	10	10	10	10	10
2	TW SULLIVAN	5B1A	14	14	14	14	14	14	14	14	14
REGULATED HYDRO											
3	ROUND BUTTE	5B1A	85	85	85	85	85	85	85	85	85
4	PELTON	5B1A	35	35	35	35	35	35	35	35	35
5	OAK GROVE	5B1A	25	25	25	25	25	25	25	25	25
6	NORTH FORK	5B1A	19	19	19	19	19	19	19	19	19
7	FARADAY	5B1A	17	17	17	17	17	17	17	17	17
8	RIVER MILL	5B1A	10	10	10	10	10	10	10	10	10
9	PRIEST RAPIDS SHARE	5B1A	68	68	68	68	69	69	69	69	69
10	HANAPUM SHARE	5B1A	84	84	84	84	86	86	86	86	86
11	ROCKY REACH SHARE	5B1A	73	73	73	73	73	73	73	73	73
12	WELLS SHARE	5B1A	87	87	87	87	87	87	87	87	87
13	TOTAL HYDRO		527	527	527	530	530	530	530	530	530
LARGE THERMAL											
14	CENTRALIA SHARE	5B1A	30	29	29	30	30	30	29	29	30
15	TOTAL THERMAL		30	29	29	30	30	30	29	29	30
OTHER RESOURCES											
16	SM TH&MISC, SUMMIT 1&2	5B1A	1	1	1	1	1	1	1	1	1
17	NON-UTILITY GENERATION	5B1B	0	0	0	0	0	0	0	0	0
18	C.T., BETHEL	5B1A	2	2	2	2	2	2	2	2	2
19	C.T., BEAVER	5B1A	51	51	51	51	66	66	66	66	66
20	COGEN, COYOTE SPRINGS	5B1B	0	200	220	220	220	220	220	220	220
21	TOTAL OTHER RESOURCES		54	254	274	275	290	290	290	290	290
EXPORTS											
IMPORTS											
22	SCE TO PGE,SEA PWR XCH	5B1B	35	35	35	35	35	35	35	35	35
CONTRACTS OUT											
23	PGE TO PP&L,COVE REP	5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-3
24	CANADIAN ENTIT (CSPE)	5B1A	-9	-8	-8	-8	-6	-4	-4	-3	0
25	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	-5	-11	-11	-13	-19
26	RESTORATION	5B1A	-4	-4	-4	-4	-4	-4	-4	-4	-4
27	TOTAL CONTRACTS OUT		-16	-15	-15	-15	-18	-22	-22	-23	-26

TABLE D-4 (CONTINUED)

PORTLAND GENERAL ELECTRIC
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
CONTRACTS IN										
28 CSPE PURCHASE 5B1A	48	46	44	41	31	18	17	17	11	0
29 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0
30 TOTAL CONTRACTS IN	48	46	44	41	31	18	17	17	11	0
TOTAL DEDICATED RESOURCES										
31 ACQUIRED PRIOR TO ACT, 5B1A	643	641	639	637	642	625	624	623	616	603
32 ACQUIRED, POST ACT, 5B1B	35	235	255	256	256	256	256	256	256	256
33 TOTAL DEDICATED RESOURCES	678	876	894	893	898	881	880	879	872	859
NONDEDICATED RESOURCES										
34 LG THRM, BOARDMAN SHARE	253	253	253	253	253	253	253	253	253	253
35 LG THRM, COLSTRIP 3 SHARE	123	124	123	123	124	123	123	124	123	124
36 LG THRM, COLSTRIP 4 SHARE	123	124	123	123	123	123	123	123	123	123
37 C.T., BEAVER	277	277	277	279	362	362	362	362	362	362
38 C.T., BETHEL	51	51	51	51	51	51	51	51	51	51
39 EXP, PGE TO BURBANK, SALE	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
40 EXP, PGE TO GLENDALE, SALE	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
41 EXP, PGE TO SCE, PWR SALE 1	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60
42 EXP, PGE TO SCE, SEA PWR XCH	-34	-34	-34	-34	-34	-34	-34	-34	-34	-34
43 EXP, PGE TO WAPA, PWR SALE	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65
44 CONT OUT, PGE TO BPA, WNP3 S	-54	-54	-54	-64	-64	-64	-64	-64	-65	-64
45 CONT OUT, PGE TO CHEL, C/N X	-4	-4	-3	-4	-4	-4	-4	-3	-3	-4
46 CONT IN, BPA TO PGE, WNP3 S	54	54	54	65	65	64	65	65	65	65
47 CONT IN, BPA TO PGE, WNP1 OB	68	63	0	0	0	0	0	0	0	0
48 CONT IN, CHEL TO PGE, C/N X	2	2	2	2	2	2	2	2	2	2
49 CONT IN, WWP TO PGE, CAP SL	2	2	2	2	2	2	2	2	2	2
50 NON-UTILITY GEN	27	27	27	27	27	27	27	27	27	27
52 TOTAL NONDEDICATED RES	740	737	673	675	759	757	758	760	758	759
53 TOTAL RESOURCES	1418	1613	1567	1568	1657	1638	1638	1639	1630	1618

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PUGET SOUND POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAHATTS		OPERATING YEAR									
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
PUGET SOUND POWER & LIGHT DEDICATED RESOURCES											
HYDRO INDEPENDENTS											
1	SNOQUALMIE, ELCT & NK 5B1A	49	49	49	49	49	49	49	49	49	49
REGULATED HYDRO											
2	WHITE 5B1A	29	29	29	29	29	29	29	29	29	30
3	UPPER BAKER 5B1A	34	34	34	34	34	34	34	34	34	34
4	LOWER BAKER 5B1A	39	39	39	39	39	39	39	39	39	39
5	WELLS SHARE 5B1A	133	133	133	133	133	133	133	133	133	133
6	ROCKY REACH SHARE 5B1A	238	238	238	238	238	238	238	238	238	238
7	ROCK ISLAND SHARE 5B1A	347	347	347	347	347	346	334	321	308	295
8	WANAPUM SHARE 5B1A	48	48	48	48	50	50	50	50	50	50
9	PRIEST SHARE 5B1A	39	39	39	39	40	40	40	40	40	40
10	TOTAL HYDRO	956	956	956	956	959	958	946	933	920	908
LARGE THERMAL											
11	CENTRALIA SHARE 5B1A	131	128	128	83	82	83	83	81	81	83
12	COLSTRIP 1&2 SHARE 5B1A	251	251	251	251	251	251	251	251	251	251
13	COLSTRIP 3 DED SHARE 5B1B	19	19	19	19	19	19	19	19	19	19
14	COLSTRIP 4 DED SHARE 5B1B	19	19	19	19	19	19	19	19	19	19
15	TOTAL LARGE THERMAL	421	418	418	373	372	373	373	371	371	373
OTHER RESOURCES											
16	C.T., WHIDBEY ISLAND 5B1A	0	0	0	1	0	0	0	0	0	0
17	C.T., WHITEHORN 1 5B1A	11	11	11	11	11	11	11	11	11	11
18	C.T., WHITEHORN 2 & 3 5B1B	28	28	28	28	28	28	28	28	28	28
19	SM TH&MISC, SHUFFLETN 5B1A	2	2	2	2	2	2	2	2	2	2
20	SM TH&MISC, CRYSTL MT 5B1A	0	0	0	0	0	0	0	0	0	0
21	NON-UTILITY GEN,DED SHR5B1B	0	0	0	0	0	0	0	0	0	0
22	TOTAL OTHER RESOURCES	41	41	41	42	41	41	41	41	41	41
EXPORTS											
IMPORTS											
CONTRACTS OUT											
23	RESTORATION 5B1A	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
24	CANADIAN ENTIT (CSPE) 5B1A	-17	-17	-17	-15	-13	-7	-7	-6	-4	0
25	CANADIAN ENTITL (CAN) 5B1A	0	0	0	-2	-9	-20	-20	-20	-26	-37
26	TOTAL CONTRACTS OUT	-27	-27	-27	-27	-32	-37	-37	-36	-40	-47

PUGET SOUND POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

		OPERATING YEAR									
MEGAHATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
CONTRACTS IN											
27 CSPE PURCHASE	5B1A	48	46	44	41	31	18	17	17	11	0
28 SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0
29 BPA TO PSP&L,WNP1 OBL	5B1B	68	63	0	0	0	0	0	0	0	0
30 TOTAL CONTRACTS IN		116	109	44	41	31	18	17	17	11	0
TOTAL DEDICATED RESOURCES											
31 ACQUIRED PRIOR TO ACT,	5B1A	1372	1367	1365	1318	1304	1286	1273	1259	1236	1208
32 ACQUIRED, POST ACT,	5B1B	135	130	67	67	67	67	67	67	67	67
33 TOTAL DEDICATED RESOURCES		1507	1497	1432	1385	1371	1353	1340	1326	1303	1275
NONDEDICATED RESOURCES											
34 LG THRM, COLSTRIP 3 ND SHR		136	136	136	136	136	136	136	136	136	136
35 LG THRM, COLSTRIP 4 ND SHR		136	136	136	136	136	136	136	136	136	136
37 C.T., FREDRICKSON		4	4	4	4	4	4	4	4	4	4
38 C.T., FREDONIA		6	6	6	6	6	6	6	6	6	6
39 EXPORT,PSP&L TO PG&E,S PWR		-47	-47	-47	-47	-47	-47	-47	-47	-47	-47
40 IMPORT,PG&E TO PSP,SEA PWR		47	47	47	47	47	47	47	47	47	47
41 IMPORT,BC HYDRO TO PSP&L		2	2	2	2	2	2	2	2	2	2
42 CONT OUT, PSP&L TO BPA,WP3		-32	-32	-32	-32	-32	-32	-32	-32	-32	-32
43 CONT OUT, PSP&L TO BPA, SAL		0	0	0	0	0	0	0	0	0	0
44 CONT OUT,PSP&L TO BPA,P XCH		0	0	0	0	0	0	0	-50	-50	-50
45 CONT IN, BPA TO PSP&L,WNP3		34	34	34	34	34	34	34	34	34	34
46 CONT IN, PP&L TO PSP&L,PS2		120	120	120	120	120	120	120	120	120	30
47 CONT IN,BPA TO PSP&L,BK HD		1	1	1	1	1	1	0	0	0	0
48 CONT IN,BPA TO PSP&L,PS/PXC		75	75	75	75	75	75	75	51	51	51
49 CONT IN,MPC TO PSP&L, COL 4		71	71	71	71	71	71	71	71	71	71
50 CONT IN,NO WASCO TO PSP&L		3	3	3	3	3	3	3	3	3	3
51 CONT IN,OTHER TO PSP&L,SP P		1	1	1	1	1	1	1	0	0	0
52 CONT IN,SNOH TO PSP&L,SP PU		5	5	5	5	5	5	5	0	0	0
53 CONT IN,WHP TO PSP&L, PS 2		75	75	75	75	75	75	62	38	10	0
54 NON-UTILITY GEN NON-DED SHR		609	609	609	608	601	601	601	601	601	601
55 TOTAL NONDEDICATED RES		1245	1245	1245	1245	1237	1237	1223	1119	1091	991
56 TOTAL RESOURCES		2752	2742	2677	2630	2608	2590	2563	2445	2394	2266

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TABLE D-6

WASHINGTON WATER POWER
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS		OPERATING YEAR										
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG	
WASHINGTON WATER POWER DEDICATED RESOURCES												
HYDRO INDEPENDENTS												
1	MEYERS FALLS	5B1A	1	1	1	1	1	1	1	1	1	1
REGULATED HYDRO												
2	NOXON	5B1A	151	151	151	151	151	151	151	151	151	151
3	CABINET GORGE	5B1A	99	99	99	99	99	99	99	99	99	99
4	POST FALLS	5B1A	8	8	8	8	8	8	8	8	8	8
5	UPPER FALLS	5B1A	8	8	8	8	8	8	8	8	8	8
6	MONROE STREET	5B1A	10	10	10	10	10	10	10	10	10	10
7	NINE MILE	5B1A	12	12	12	12	12	12	12	12	12	12
8	LONG LAKE	5B1A	42	42	42	42	42	42	42	42	42	42
9	LITTLE FALLS	5B1A	19	19	19	19	19	19	19	19	19	19
10	WELLS SHARE	5B1A	15	15	15	15	15	15	15	15	15	15
11	CHELAN SHARE	5B1A	17	0	0	0	0	0	0	0	0	0
12	ROCKY REACH SHARE	5B1A	18	18	18	18	18	18	18	18	18	18
13	WANAPUM SHARE	5B1A	37	37	37	37	38	38	38	38	38	38
14	PRIEST RAPIDS SHARE	5B1A	30	30	30	30	30	30	30	30	30	30
15	TOTAL HYDRO		467	450	450	450	451	451	451	451	451	451
LARGE THERMAL												
16	CENTRALIA SHARE	5B1A	178	175	175	178	178	178	177	175	175	178
17	TOTAL LARGE THERMAL		178	175	175	178	178	178	177	175	175	178
OTHER RESOURCES												
18	C.T., NORTHEAST UNITS	5B1A	54	54	54	54	54	54	54	54	54	54
19	NON-UTILITY GEN	5B1B	0	0	0	0	0	0	0	0	0	0
20	TOTAL OTHER RESOURCES		54	54	54	54	54	54	54	54	54	54
EXPORTS												
21	TOTAL EXPORTS		0	0	0	0	0	0	0	0	0	0
IMPORTS												
22	TOTAL IMPORTS		0	0	0	0	0	0	0	0	0	0

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TABLE D-6 (CONTINUED)

WASHINGTON WATER POWER
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

OPERATING YEAR

MEGAWATTS	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
CONTRACTS OUT										
23 CANADIAN ENTIT (CSPE) 5B1A	-3	-3	-3	-2	-1	0	0	0	0	0
24 CANADIAN ENTITL (CAN) 5B1A	0	0	0	0	-1	-4	-4	-4	-4	-5
25 WWP TO PP&L,SANDPOINT 5B1A	-2	-1	0	0	0	0	0	0	0	0
26 TOTAL CONTRACTS OUT	-5	-4	-3	-2	-2	-4	-4	-4	-4	-5
CONTRACTS IN										
27 BPA TO WWP, SRP CAP SL 5B1B	0	0	0	0	0	0	0	0	0	0
28 CSPE PURCHASE 5B1A	14	13	13	12	9	5	5	5	3	0
29 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0
30 RESTORATION 5B1A	8	8	8	8	8	8	8	8	8	8
31 MPC TO WWP, PWR SALE 5B1B	18	0	0	0	0	0	0	0	0	0
32 TOTAL CONTRACTS IN	40	21	21	20	17	13	13	13	11	8
TOTAL DEDICATED RESOURCES										
33 ACQUIRED PRIOR TO ACT, 5B1A	716	696	697	700	698	692	691	689	687	686
34 ACQUIRED, POST ACT, 5B1B	18	0	0	0	0	0	0	0	0	0
36 TOTAL DEDICATED RESOURCES	734	696	697	700	698	692	691	689	687	686
NONDEDICATED RESOURCES										
37 COMB TURB, RATHDRUM 1&2	0	0	0	0	0	0	0	0	0	0
38 LG THRM, COLSTRIP 3 SHARE	92	92	92	92	92	92	92	92	92	92
39 LG THRM, COLSTRIP 4 SHARE	92	92	92	92	92	92	92	92	92	92
40 NON-UTLITY GENERATION	66	66	66	66	66	66	66	36	11	11
41 RENEW, KETTLE FALLS	40	40	40	40	39	39	39	40	40	40
42 IMP, PG&E TO WWP,SEA PWR XC	25	25	25	25	25	25	25	25	25	25
43 EXP, WWP TO PG&E,SEA PWR XC	-25	-25	-25	-25	-25	-24	-25	-25	-25	-24
44 CONT OUT, WWP TO BPA,WNP3 S	-27	-27	-27	-32	-32	-32	-32	-32	-32	-32
45 CONT OUT, WWP TO PP&L,PS	-50	-40	-23	-8	0	0	0	0	0	0
46 C. O. WWP TO PND OR, SALE	-9	-4	1	1	1	1	1	1	1	1
47 CONT OUT, WWP TO PSP&L,PS 2	-75	-75	-75	-75	-75	-75	-62	-38	-10	0
48 CONT IN, BPA TO WWP,WNP1 OB	68	61	0	0	0	0	0	0	0	0
49 CONT IN, BPA TO WWP, WNP3 S	26	27	26	32	32	32	32	31	31	31
50 NONDEDICATED RESOURCES	223	232	192	208	215	216	228	222	225	236
51 TOTAL RESOURCES	957	928	889	908	913	908	919	911	912	922

TABLE D-7

CHELAN COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR										
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG	
CHELAN COUNTY PUD #1 DEDICATED RESOURCES											
HYDRO INDEPENDENTS											
REGULATED HYDRO											
1	ROCKY REACH SHARE	5B1A	47	47	47	47	47	47	47	47	47
2	ROCKY REACH SHARE	5B1B	46	46	46	46	46	46	46	46	46
3	ROCK ISLAND SHARE	5B1A	30	30	30	30	30	43	56	69	81
4	ROCK ISLAND SHARE	5B1B	50	55	59	64	69	74	75	75	75
5	CHELAN SHR, PROJ+CONT	5B1A	0	16	16	16	17	17	17	17	17
6	CHELAN CONTRACT	5B1B	21	22	22	22	22	22	22	22	22
7	TOTAL HYDRO		193	215	220	225	230	236	250	263	276
LARGE THERMAL											
OTHER RESOURCES											
EXPORTS											
IMPORTS											
CONTRACTS OUT											
8	CHELAN TO DOUG,C/N XCH	5B1A	-1	0	0	0	0	0	0	0	0
9	CANADIAN ENTIT (CSPE)	5B1A	-3	-3	-3	-3	-2	-1	-1	-1	0
10	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	-2	-4	-4	-4	-6
11	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0
12	TOTAL CONTRACTS OUT		-4	-3	-3	-3	-4	-5	-5	-5	-6
CONTRACTS IN											
13	CSPE PURCHASE	5B1A	3	3	3	2	2	1	1	1	0
14	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0
15	DOUG TO CHELAN,C/N XCH	5B1A	1	1	1	1	1	1	1	1	1
16	COLOCK TO CHEL,PK SALE	5B1A	0	0	0	0	0	0	0	0	0
17	TOTAL CONTRACTS IN		4	4	4	3	3	2	2	2	1
TOTAL DEDICATED RESOURCES											
18	ACQUIRED PRIOR TO ACT,	5B1A	76	94	94	93	90	87	99	112	125
19	ACQUIRED, POST ACT,	5B1B	116	122	127	132	138	142	144	144	144
20	TOTAL DEDICATED RESOURCES		193	216	221	225	229	233	247	260	283

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TABLE D-7 (CONTINUED)

CHELAN COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
NONDEDICATED RESOURCES										
21 M HYDRO, ROCK ISLAND SHARE	-69	-74	-79	-84	-89	-93	-95	-95	-95	-95
22 CONT OUT, CHL TO PGE,C/N X	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
23 CONT IN, PGE TO CHL,C/N X	4	4	3	4	4	4	4	3	3	4
24 TOTAL NONDEDICATED RES	-67	-72	-78	-82	-87	-91	-93	-94	-94	-93
25 TOTAL RESOURCES	126	144	143	143	143	142	154	166	179	191

TABLE D-8

COWLITZ COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR										
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG	
COWLITZ COUNTY PUD #1 DEDICATED RESOURCES											
HYDRO INDEPENDENTS											
REGULATED HYDRO											
1 WANAPUM SHARE	5B1A	12	12	12	12	12	12	12	12	12	12
2 PRIEST RAPIDS SHARE	5B1A	10	10	10	10	10	10	10	10	10	10
3 SWIFT 1 SHARE	5B1B	14	14	14	14	14	14	14	14	14	14
4 SWIFT 2 SHARE	5B1B	5	5	5	5	5	5	5	5	5	5
5 TOTAL HYDRO		41	41	41	41	41	41	41	41	41	41
LARGE THERMAL											
OTHER RESOURCES											
EXPORTS											
IMPORTS											
CONTRACTS OUT											
6 CANADIAN ENTIT (CSPE)	5B1A	-1	-1	0	0	0	0	0	0	0	0
7 CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	-1	-1
8 RESTORATION	5B1A	3	3	3	3	3	3	3	3	3	3
9 TOTAL CONTRACTS OUT		2	2	3	3	3	3	3	3	2	2
CONTRACTS IN											
10 CSPE PURCHASE	5B1A	7	7	6	6	5	3	3	2	1	0
11 SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0
12 TOTAL CONTRACTS IN		7	7	6	6	5	3	3	2	1	0
TOTAL DEDICATED RESOURCES											
13 ACQUIRED PRIOR TO ACT,	5B1A	31	31	31	31	30	28	28	27	24	23
14 ACQUIRED, POST ACT,	5B1B	19	19	19	19	19	19	19	19	19	19
15 TOTAL DEDICATED RESOURCES		50	50	50	50	49	47	47	46	44	43
NONDEDICATED RESOURCES											
16 TOTAL NONDEDICATED RES		0	0	0	0	0	0	0	0	0	0
17 TOTAL RESOURCES		50	50	50	50	49	47	47	46	44	43

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TABLE D-9

DOUGLAS COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

		OPERATING YEAR									
MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
DOUGLAS COUNTY PUD #1 DEDICATED RESOURCES											
HYDRO INDEPENDENTS											
REGULATED HYDRO											
1	WELLS SHARE	5B1A	25	25	25	25	25	25	25	25	25
2	WELLS SHARE	5B1B	62	62	62	62	62	62	62	62	62
3	ROCKY REACH SHARE	5B1A	17	17	17	17	17	17	17	17	17
4	TOTAL HYDRO		104	104	104	104	104	104	104	104	104
LARGE THERMAL											
OTHER RESOURCES											
EXPORTS											
IMPORTS											
CONTRACTS OUT											
5	CANADIAN ENTIT (CSPE)	5B1A	-5	-4	-3	-4	-2	-1	-1	-1	-1
6	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	-2	-5	-5	-5	-6
7	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0
8	DOUG TO CHEL,C/N XCHG	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1
9	TOTAL CONTRACTS OUT		-6	-5	-4	-5	-5	-7	-7	-7	-8
CONTRACTS IN											
10	CSPE PURCHASE	5B1A	1	1	0	0	0	0	0	0	0
11	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0
12	CHEL TO DOUG,C/N XCHG	5B1A	1	0	0	0	0	0	0	0	0
13	TOTAL CONTRACTS IN		2	1	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES											
14	ACQUIRED PRIOR TO ACT,	5B1A	38	38	38	37	35	30	30	30	28
15	ACQUIRED, POST ACT,	5B1B	62	62	62	62	62	62	62	62	62
16	TOTAL DEDICATED RESOURCES		100	100	100	99	99	97	97	97	96
NONDEDICATED RESOURCES											
17	TOTAL NONDEDICATED RES		0	0	0	0	0	0	0	0	0
18	TOTAL RESOURCES		100	100	100	99	99	97	97	97	96

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TABLE D-10

EUGENE WATER & ELECTRIC BOARD
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS		OPERATING YEAR										
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG	
EUGENE WATER & ELECTRIC BOARD DEDICATED RESOURCES												
HYDRO INDEPENDENTS												
1	LEABURG	5B1A	0	0	0	0	0	0	0	0	0	0
2	WATERVILLE	5B1A	0	0	0	0	0	0	0	0	0	0
REGULATED HYDRO												
3	CARMEN-SMITH	5B1A	16	16	16	16	16	16	16	16	16	16
4	TRAIL BRIDGE	5B1A	4	4	4	4	4	4	4	4	4	4
5	HANAPUM DED SHARE	5B1A	8	8	8	8	9	9	9	9	9	9
6	PRIEST RAPIDS DED SHR	5B1A	7	7	7	7	7	7	7	7	7	7
7	TOTAL HYDRO		35	35	35	35	36	36	36	36	36	36
LARGE THERMAL												
OTHER RESOURCES												
8	NON-UTILITY GENERATION	5B1B	9	9	9	9	9	9	9	9	9	9
9	TOTAL OTHER RESOURCES		9	9	9	9	9	9	9	9	9	9
EXPORTS												
IMPORTS												
CONTRACTS OUT												
10	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0
11	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	-1	-1
12	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0
13	TOTAL CONTRACTS OUT		0	0	0	0	0	0	0	0	-1	-1
CONTRACTS IN												
14	CSPE PURCHASE	5B1A	15	14	14	13	10	6	5	5	3	0
15	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0
16	TOTAL CONTRACTS IN		15	14	14	13	10	6	5	5	3	0
TOTAL DEDICATED RESOURCES												
17	ACQUIRED PRIOR TO ACT,	5B1A	50	49	49	48	46	42	41	41	38	35
18	ACQUIRED, POST ACT,	5B1B	9	9	9	9	9	9	9	9	9	9
19	TOTAL DEDICATED RESOURCES		59	58	58	57	55	51	50	50	47	44

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EUGENE WATER & ELECTRIC BOARD
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
NONDEDICATED RESOURCES										
20 M HYDRO, WANAPUM SHARE	2	2	2	2	2	2	2	2	2	2
21 M HYDRO, PRIEST RAPIDS SHARE	1	1	1	1	1	1	1	1	1	1
22 COGEN, WEYCO ENERGY CTR	14	14	14	14	14	14	14	14	14	14
23 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0
24 TOTAL NONDEDICATED RES	17	17	17	17	17	17	17	17	17	17
25 TOTAL RESOURCES	76	75	75	74	72	68	67	67	64	61

GRANT COUNTY PUD #2
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

		OPERATING YEAR									
MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
GRANT COUNTY PUD #2 DEDICATED RESOURCES											
HYDRO INDEPENDENTS											
REGULATED HYDRO											
1	WANAPUM SHARE 5B1A	81	81	81	81	84	84	84	84	84	84
2	WANAPUM SHARE 5B1B	66	66	66	66	68	68	68	68	68	68
3	PRIEST RAPIDS SHARE 5B1A	94	94	94	94	95	95	95	95	95	95
4	PRIEST RAPIDS DED SHR 5B1B	66	66	66	66	67	67	67	67	67	67
5	TOTAL HYDRO	307	307	307	307	314	314	314	314	314	314
LARGE THERMAL											
OTHER RESOURCES											
6	NON-UTILITY GENERATION 5B1B	0	0	0	0	0	0	0	0	0	0
7	TOTAL OTHER RESOURCES	0	0	0	0	0	0	0	0	0	0
EXPORTS											
IMPORTS											
CONTRACTS OUT											
8	CANADIAN ENTIT (CSPE) 5B1A	-7	-6	-6	-6	-5	-3	-3	-3	-3	-2
9	CANADIAN ENTITL (CAN) 5B1A	0	0	0	-2	-4	-9	-9	-9	-9	-11
10	RESTORATION 5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
11	CNT OUT, GRT TO PP&L,PS 5B1B	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
12	TOTAL CONTRACTS OUT	-20	-19	-19	-21	-22	-25	-25	-25	-25	-26
CONTRACTS IN											
13	CSPE PURCHASE 5B1A	1	1	1	1	1	0	0	0	0	0
14	SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0
15	TOTAL CONTRACTS IN	1	1	1	1	1	0	0	0	0	0
TOTAL DEDICATED RESOURCES											
16	ACQUIRED PRIOR TO ACT, 5B1A	166	167	167	163	164	155	155	155	152	144
17	ACQUIRED, POST ACT, 5B1B	122	122	122	122	125	125	125	125	125	125
18	TOTAL DEDICATED RESOURCES	288	289	289	287	293	289	289	289	288	285

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GRANT COUNTY PUD #2
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAHATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
NONDEDICATED RESOURCES										
19 M HYDRO, WANAPUM SHARE	17	17	17	17	17	17	17	17	17	17
20 M HYDRO, PRIEST RAPIDS	18	18	18	18	18	18	18	18	18	18
21 NON-UTILITY GENERATION	7	7	7	7	7	7	7	7	7	7
21 TOTAL NONDEDICATED RES	42	42	42	42	42	42	42	42	42	42
22 TOTAL RESOURCES	330	331	331	329	335	331	331	331	330	327

TABLE D-12

PEND OREILLE COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

			OPERATING YEAR									
MEGAWATTS			1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
PEND OREILLE COUNTY PUD #1 DEDICATED RESOURCES												
HYDRO INDEPENDENTS												
1	CALISPEL CREEK	5B1A	0	0	0	0	0	0	0	0	0	0
REGULATED HYDRO												
2	BOX CANYON DED SHARE	5B1A	12	16	16	16	16	16	19	19	19	19
3	TOTAL HYDRO		12	16	16	16	16	16	19	19	19	19
LARGE THERMAL												
OTHER RESOURCES												
EXPORTS												
IMPORTS												
CONTRACTS OUT												
4	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0
5	PEND 0 TO SCL, PWR SALE	5B1A	-15	-12	-12	-12	-12	-12	-9	-9	-9	-9
6	TOTAL CONTRACTS OUT		-15	-12	-12	-12	-12	-12	-9	-9	-9	-9
CONTRACTS IN												
7	CSPE PURCHASE	5B1A	1	0	0	0	0	0	0	0	0	0
8	TOTAL CONTRACTS IN		1	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES												
9	ACQUIRED PRIOR TO ACT,	5B1A	-2	4	4	4	4	4	10	10	10	10
10	ACQUIRED, POST ACT,	5B1B	0	0	0	0	0	0	0	0	0	0
11	TOTAL DEDICATED RESOURCES		-2	4	4	4	4	4	10	10	10	10
NONDEDICATED RESOURCES												
12	M. HYD., BOX CANYON AF ENC. PD		39	35	35	35	35	35	32	32	32	32
13	C.I., SCL TO PEND 0, PWR SA		23	27	27	27	27	27	30	30	30	30
14	C.I., WWP TO PEND 0, PWR SA		9	4	-1	-1	-1	-1	-1	-1	-1	-1
15	TOTAL NONDEDICATED RES		71	66	61	61	61	61	61	61	61	61
16	TOTAL RESOURCES		69	70	65	65	65	65	71	71	71	71

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SEATTLE CITY LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

		OPERATING YEAR									
MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
SEATTLE CITY LIGHT DEDICATED RESOURCES											
HYDRO INDEPENDENTS											
1	CEDAR FALLS, NEWHALEM	5B1A	9	9	9	9	9	9	9	9	9
2	SOUTH FORK TOLT	5B1B	6	6	6	6	6	6	6	6	6
REGULATED HYDRO											
3	ROSS	5B1A	72	72	72	72	72	72	72	72	72
4	DIABLO	5B1A	81	81	81	81	81	81	81	81	81
5	GORGE	5B1A	93	93	93	93	93	93	93	93	93
6	BOUNDARY	5B1A	342	342	342	342	342	342	342	342	342
7	BOUNDARY EXPANSION	5B1B	17	17	17	17	17	17	17	17	17
8	PRIEST RADIPS SHARE	5B1A	39	39	39	39	39	39	39	39	39
9	TOTAL HYDRO		659	659	659	659	659	659	659	659	659
LARGE THERMAL											
10	CENTRALIA SHARE	5B1A	95	93	94	96	95	96	95	93	93
11	TOTAL LARGE THERMAL		95	93	94	96	95	96	95	93	93
OTHER RESOURCES											
12	NON-UTILITY GENERATION		65	65	65	65	65	65	65	65	66
EXPORTS											
IMPORTS											
13	BC TO SCL, ROSS RPLC	5B1B	35	36	36	36	36	36	36	36	36
14	TOTAL IMPORTS		35	36	36	36	36	36	36	36	36
CONTRACTS OUT											
15	CANADIAN ENTIT (CSPE)	5B1A	-1	-1	-1	-1	0	0	0	0	0
16	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	-1	-1	-1	-1
17	SCL TO PEND O, PS	5B1A	-23	-27	-27	-27	-27	-27	-30	-30	-30
18	RESTORATION	5B1A	2	2	2	2	2	2	2	2	2
19	TOTAL CONTRACTS OUT		-22	-26	-26	-26	-25	-26	-29	-29	-29

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TABLE D-13 (CONTINUED)

SEATTLE CITY LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
CONTRACTS IN										
20 CSPE PURCHASE 5B1A	34	33	31	30	22	13	12	12	8	0
21 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0
22 PEND 0 TO SCL, PWR SALE 5B1A	15	12	12	12	12	12	9	9	9	9
23 TOTAL CONTRACTS IN	49	45	43	42	34	25	21	21	17	9
TOTAL DEDICATED RESOURCES										
24 ACQUIRED PRIOR TO ACT, 5B1A	758	748	747	748	740	731	723	721	717	711
25 ACQUIRED, POST ACT, 5B1B	123	124	124	124	124	124	124	124	125	124
26 TOTAL DEDICATED RESOURCES	881	872	871	872	864	855	847	845	842	835
NONDEDICATED RESOURCES										
27 SM THRM & MISC, BOUNDARY	0	0	0	0	0	0	0	0	0	0
28 IMP, NCPA TO SCL, EXCHANGE	0	0	0	0	13	0	0	0	0	0
29 EXP, SCL TO NCPA, EXCHANGE	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
30 C.O., SCL TO ID, NRG SALE	-14	-14	-14	-14	-14	-14	-14	-14	-14	-6
31 C.O., SCL TO TCL, EXCHANGE	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
32 C.I., ID TO SCL, NRG SALE	15	15	15	15	15	15	15	15	15	0
33 C.I., TCL TO SCL, EXCHANGE	4	4	4	4	4	3	4	4	4	4
34 TOTAL NONDEDICATED RES	-10	-10	-10	-10	3	-11	-10	-10	-10	-17
35 TOTAL RESOURCES	871	862	861	862	867	844	837	835	832	818

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TABLE D-14

SNOHOMISH COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

		OPERATING YEAR									
MEGAWATTS		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
SNOHOMISH COUNTY PUD #1 DEDICATED RESOURCES											
HYDRO INDEPENDENTS											
1 JACKSON	5B1B	41	41	41	41	41	41	41	41	41	41
REGULATED HYDRO											
TOTAL HYDRO		41	41	41	41	41	41	41	41	41	41
LARGE THERMAL											
2 CENTRALIA SHARE	5B1B	95	93	93	95	95	95	95	93	94	95
3 TOTAL LARGE THERMAL		95	93	93	95	95	95	95	93	94	95
OTHER RESOURCES											
4 NON-UTILITY GEN	5B1B	0	0	0	0	0	0	0	0	0	0
5 SCOTT PAPER, COGEN	5B1B	0	3	4	5	5	4	5	5	4	4
6 TOTAL OTHER RESOURCES		0	0	0	0	0	0	0	0	0	0
EXPORTS											
IMPORTS											
CONTRACTS OUT											
CONTRACTS IN											
7 CSPE PURCHASE	5B1A	4	4	4	4	3	1	2	1	1	0
8 TOTAL CONTRACTS IN		4	4	4	4	3	1	2	1	1	0
TOTAL DEDICATED RESOURCES											
9 ACQUIRED PRIOR TO ACT, 5B1A		4	4	4	4	3	1	2	1	1	0
10 ACQUIRED, POST ACT, 5B1B		136	134	134	136	136	136	136	134	135	136
11 TOTAL DEDICATED RESOURCES		140	138	138	140	139	137	138	135	136	136
NONDEDICATED RESOURCES											
12 NON-UTILITY GENERATION		0	0	0	0	0	0	0	0	0	0
13 CONT OUT, SNOH TO PSP&L, PS P		-5	-5	-5	-5	-5	-5	-5	0	0	0
14 EXPORT, SNOH TO SMUD, PS		0	-18	-27	-26	-26	-27	-26	-26	-27	-27
15 COGEN, SCOTT PAPER		0	18	27	26	26	27	26	26	27	27
16 TOTAL NONDEDICATED RES		-5	-5	-5	-5	-5	-5	-5	0	0	0
17 TOTAL RESOURCES		135	133	133	135	134	132	133	135	136	136

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TABLE D-15

TACOMA PUBLIC UTILITIES
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS		OPERATING YEAR										
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG	
TACOMA PUBLIC UTILITIES DEDICATED RESOURCES												
HYDRO INDEPENDENTS												
1	WYNOCHEE	5B1B	4	4	4	4	4	4	4	4	4	4
REGULATED HYDRO												
2	CUSHMAN 1	5B1A	11	11	11	11	11	11	11	11	11	11
3	CUSHMAN 2	5B1A	20	20	20	20	20	20	20	20	20	20
4	ALDER	5B1A	20	20	20	20	20	20	20	20	20	20
5	LA GRANDE	5B1A	33	33	33	33	33	33	33	33	33	33
6	MOSSYROCK	5B1A	91	91	91	91	91	91	91	91	91	91
7	MAYFIELD	5B1A	65	65	65	65	65	65	65	65	65	65
8	MAYFIELD	5B1B	0	0	0	0	0	0	0	0	0	0
9	PRIEST RAPIDS SHARE	5B1A	39	39	39	39	40	40	40	40	40	40
10	TOTAL HYDRO		283	283	283	283	284	284	284	284	284	284
LARGE THERMAL												
11	CENTRALIA SHARE	5B1B	95	94	93	95	95	95	95	94	93	95
12	TOTAL LARGE THERMAL		95	94	93	95	95	95	95	94	93	95
OTHER RESOURCES												
EXPORTS												
IMPORTS												
CONTRACTS OUT												
13	CANADIAN ENTIT (CSPE)	5B1A	-1	-1	-1	-1	-1	0	0	0	0	0
14	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	-1	-1	-1	-1	-1	-2
15	TOTAL CONTRACTS OUT		-1	-1	-1	-1	-2	-1	-1	-1	-1	-2
CONTRACTS IN												
16	CSPE PURCHASE	5B1B	18	18	18	18	17	13	12	12	8	0
17	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0
18	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0
19	TOTAL CONTRACTS IN		18	18	18	18	17	13	12	12	8	0
TOTAL DEDICATED RESOURCES												
20	ACQUIRED PRIOR TO ACT,	5B1A	282	282	282	282	282	283	283	283	283	282
21	ACQUIRED, POST ACT,	5B1B	117	116	115	117	116	112	111	110	105	99
22	TOTAL DEDICATED RESOURCES		395	394	393	395	394	391	390	389	384	377

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TACOMA PUBLIC UTILITIES
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
NONDEDICATED RESOURCES										
23 HY IND, HOOD STREET	1	1	1	1	1	1	1	1	1	1
24 EXP, TCL TO WAPA, PWR SALE	-40	-40	-40	-41	-41	-40	-41	-41	-40	-40
25 C.O. TCL TO SCL, EXCHANGE	-4	-4	-4	-4	-4	-3	-4	-4	-4	-4
26 C.I. SCL TO TCL, EXCHANGE	4	4	4	4	4	4	4	4	4	4
27 COGEN, STEAM PLANT 2	0	0	0	0	0	0	0	0	0	0
28 CSPE PURCHASE	16	15	13	11	5	0	0	0	0	0
29 TOTAL NONDEDICATED RES	-23	-24	-26	-29	-35	-38	-40	-40	-39	-39
30 TOTAL RESOURCES	372	370	367	366	359	353	350	349	345	338

TABLE D-16

SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS		OPERATING YEAR									
		1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
SMALL & NON GEN PUBLIC AGENCIES DEDICATED RESOURCES											
HYDRO INDEPENDENTS											
1	GEM STATE HYDRO CIDFL 5B1B	14	14	14	14	14	14	14	14	14	14
2	MILL CREEK LEWIS 5B1B	0	0	0	0	0	0	0	0	0	0
3	MORSE CREEK PRT ANGLS 5B1B	0	0	0	0	0	0	0	0	0	0
4	MOYIE SPRINGS BONNFY 5B1A	2	2	2	2	2	2	2	2	2	2
5	REEDER GULCH ASHLND 5B1B	0	0	0	0	0	0	0	0	0	0
6	SODA CREEK SODA SPR 5B1B	0	0	0	0	0	0	0	0	0	0
7	YELM CENTRAL 5B1A	9	9	9	9	9	9	9	9	9	9
8	STRAWBERRY LOW VAL 5B1A	2	2	2	2	2	2	2	2	2	2
9	THE DALLES FSHWY NOWAS 5B1B	3	3	3	3	3	3	3	3	3	3
REGULATED HYDRO											
10	WELLS OKANOGAN SHARE 5B1A	7	7	7	7	7	7	7	7	7	7
11	WELLS OKANOGAN SHARE 5B1B	25	25	25	25	25	25	25	25	25	25
12	WANAPUM F GROVE SHARE 5B1A	3	3	3	3	3	3	3	3	3	3
13	WANAPUM MCMINN SHARE 5B1A	3	3	3	3	3	3	3	3	3	3
14	WANAPUM M FREE SHARE 5B1A	3	3	3	3	3	3	3	3	3	3
15	PRIEST R. F GROVE SHR 5B1A	2	2	2	2	2	2	2	2	2	2
16	PRIEST R. MCMINN SHARE 5B1A	2	2	2	2	3	3	3	3	3	3
17	PRIEST R. M FREE SHARE 5B1A	2	2	2	2	2	2	2	2	2	2
18	PRIEST R. KITATS SHARE 5B1A	2	2	2	2	2	2	2	2	2	2
19	TOTAL HYDRO	79	79	79	79	80	80	80	80	80	80
LARGE THERMAL											
OTHER RESOURCES											
20	RENEW, SHORT MT EMRLD 5B1B	2	3	3	3	4	4	4	4	4	4
21	NON-UTILITY GEN 5B1B	13	8	8	8	8	8	8	8	8	8
22	TOTAL OTHER RESOURCES	15	11	11	11	12	12	12	12	12	12
EXPORTS											
23	CIDFL TO UTAH,GEM ST HY5B1B	-4	-5	-4	-4	-4	-4	-4	-4	-4	-4
24	TOTAL EXPORTS	-4	-5	-4	-4	-4	-4	-4	-4	-4	-4

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SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
IMPORTS										
CONTRACTS OUT										
CANADIAN ENTITLEMENT RETURN FOR CSPE										
25 PRIEST R. F GROVE CER 5B1A	0	0	0	0	0	0	0	0	0	0
26 PRIEST R. MCMINN CER 5B1A	0	0	0	0	0	0	0	0	0	0
27 PRIEST R. M FREE CER 5B1A	0	0	0	0	0	0	0	0	0	0
28 PRIEST R. KITITS CER 5B1A	0	0	0	0	0	0	0	0	0	0
29 WANAPUM F GROV CER 5B1A	0	0	0	0	0	0	0	0	0	0
30 WANAPUM MCMINN CER 5B1A	0	0	0	0	0	0	0	0	0	0
31 WANAPUM M FREE CER 5B1A	0	0	0	0	0	0	0	0	0	0
CANADIAN ENTITLEMENT RETURN FOR CSPE										
32 WELLS OKANOG CER 5B1A	0	0	0	0	0	0	0	0	0	0
33 WELLS OKANOG CER 5B1B	-1	-1	-1	-1	-1	-1	-1	-1	0	0
CANADIAN ENTITLEMENT RETURN TO CANADA										
34 PRIEST R. F GROVE CER 5B1A	0	0	0	0	0	0	0	0	0	0
35 PRIEST R. MCMINN CER 5B1A	0	0	0	0	0	0	0	0	0	0
36 PRIEST R. M FREE CER 5B1A	0	0	0	0	0	0	0	0	0	0
37 PRIEST R. KITITS CER 5B1A	0	0	0	0	0	0	0	0	0	0
38 WANAPUM F GROV CER 5B1A	0	0	0	0	0	0	0	0	0	0
39 WANAPUM MCMINN CER 5B1A	0	0	0	0	0	0	0	0	0	0
40 WANAPUM M FREE CER 5B1A	0	0	0	0	0	0	0	0	0	0
41 WELLS OKANOG CER 5B1A	0	0	0	0	0	0	0	0	0	-1
42 WELLS OKANOG CER 5B1B	0	0	0	0	-1	-1	-1	-1	-2	-1
43 TOTAL CONTRACTS OUT	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2
CONTRACTS IN										
44 CSPE PURCHASE 5B1A	37	36	35	33	24	14	14	13	9	0
45 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0
46 BPA TO OTHER PUB,PKWD 5B1A	0	0	0	0	0	0	0	0	0	0
47 BPA TO CLK,PKWD LAKE 5B1B	0	0	0	0	0	1	0	0	0	0
48 IDA TO OR TRAIL, SALE 5B1B	8	8	9	8	7	0	0	1	1	1
49 TOTAL CONTRACTS IN	45	44	44	41	31	15	14	14	10	1
TOTAL DEDICATED RESOURCES										
50 ACQUIRED PRIOR TO ACT, 5B1A	74	73	72	70	62	52	52	51	47	37
51 ACQUIRED, POST ACT, 5B1B	58	52	54	53	52	47	46	47	47	47
52 TOTAL DEDICATED RESOURCES	134	128	129	126	117	101	100	100	96	87

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TABLE D-16 (CONTINUED)

SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

MEGAWATTS	OPERATING YEAR									
	1994-95 AVG	1995-96 AVG	1996-97 AVG	1997-98 AVG	1998-99 AVG	1999- 0 AVG	2000- 1 AVG	2001- 2 AVG	2002- 3 AVG	2003- 4 AVG
NONDEDICATED RESOURCES										
53 LG THM, CENTRALIA GRY HBR	0	0	0	47	47	47	47	46	46	47
54 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0
55 SM TH & MISC, DIESEL CIDFL	0	0	0	0	0	0	0	0	0	0
56 CONT OUT,NO WASCO TO PSP&L	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
57 CONT OUT,OTHER TO PSP&L,SP	-1	-1	-1	-1	-1	-1	-1	0	0	0
58 TOTAL NONDEDICATED RES	-4	-4	-4	43	43	43	43	43	43	44
59 TOTAL RESOURCES	130	124	125	169	160	144	143	143	139	131

SECTION VII: Annual Energy Analysis

LOADS AND RESOURCES TABLES OF THE NORTHWEST REGION BY MAJOR SUPPLY GROUPS

SECTION VII - LOADS AND RESOURCES TABLES OF THE NORTHWEST REGION BY MAJOR SUPPLY GROUPS

Monthly Energy Analysis

Section VII: Loads and Resources Tables of the Northwest Region by Major Supply Groups

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TABLE 1: PACIFIC NORTHWEST REGIONAL AREA

SUMMARY OF PACIFIC NORTHWEST REGIONAL LOADS AND RESOURCES
 UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS																
1	SYSTEM FIRM LOADS	1/ 18520	18520	17980	18776	20780	22371	23186	22060	20724	19481	19481	18830	18837	18976	20043
2	SYSTEM TOTAL LOADS	2/ 18918	18918	18378	19179	21184	22773	23936	22815	21478	20234	20234	19585	19592	19723	20650
3	EXPORTS	3/ 1761	1761	1729	1186	1112	1098	1095	1024	1049	1045	1045	1155	1683	1793	1311
4	FED DIVERSITY	4/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	FIRM LOADS	20281	20281	19709	19962	21892	23469	24281	23084	21773	20526	20526	19985	20520	20769	21354
6	TOTAL LOADS	20679	20679	20107	20365	22296	23871	25031	23839	22527	21279	21279	20740	21275	21516	21961
RESOURCES																
7	REGULATED HYDRO	5/ 10575	10618	10268	10804	12324	13123	14395	12664	12496	12072	13299	16156	10796	10184	12208
8	INDEPENDENT HYDRO	6/ 1020	962	911	888	896	1082	851	1177	966	999	1032	1065	1049	975	989
9	MAY WATER BUDGET	7/ 0	0	0	0	0	0	0	0	0	0	0	-2965	0	0	-247
10	SUS. PKNG. ADJUSTMENT	8/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	TOTAL HYDRO	11595	11580	11179	11692	13220	14205	15246	13841	13462	13071	14331	14256	11845	11159	12949
12	SMALL THERMAL & MISC	9/ 51	49	54	51	57	51	47	48	41	53	63	53	1	50	47
13	COMBUSTION TURBINES	10/ 423	423	428	435	591	589	592	604	442	436	436	432	428	423	485
14	RENEWABLES	11/ 46	46	46	46	46	46	46	46	46	46	46	46	2	46	42
15	COGENERATION	12/ 51	51	51	51	51	44	51	51	51	51	51	51	51	44	50
16	IMPORTS	13/ 1787	1787	1624	1809	2282	2446	2387	2389	1877	1486	1362	1469	1746	2019	1938
17	CENTRALIA	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	861	1015	1235	1185
18	JIM BRIDGER	636	636	636	585	531	636	636	636	566	393	393	464	577	636	578
19	COLSTRIP 1 & 2	364	360	368	363	362	351	343	344	345	184	324	244	350	362	337
20	BOARDMAN	436	436	436	436	436	436	436	436	436	436	436	28	233	436	385
21	VALMY	202	202	202	202	202	202	202	202	160	202	189	163	202	202	195
22	COLSTRIP 3	530	528	534	530	529	521	515	516	516	534	219	327	520	529	495
23	WNP 2	826	826	826	826	826	826	826	826	826	661	0	0	771	867	715
24	COLSTRIP 4	655	654	655	654	654	654	654	655	654	655	262	401	655	655	617
25	FED RESOURCE ACQUIS	14/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	NON-UTILITY GENERATION	15/ 1111	1110	1050	959	915	899	870	899	932	1070	1073	787	1114	1185	983
27	TOTAL RESOURCES	19948	19923	19324	19874	21937	23141	24086	22728	21589	20513	20420	19582	19510	19848	21002
28	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	BPA SPINNING RESERVES	18/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	DSI RESERVES	19/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	HYDRO MAINTENANCE	20/ -31	-25	-9	-9	-4	0	0	0	-5	-7	-8	-20	-15	-50	-12
33	NET RESOURCES	19917	19898	19315	19865	21933	23141	24086	22728	21584	20506	20412	19562	19495	19798	20989
34	FIRM SURPLUS/DEFICIT	-364	-383	-394	-97	41	-328	-195	-356	-189	-20	-114	-423	-1025	-971	-365
35	TOTAL SURPLUS/DEFICIT	-762	-782	-792	-500	-363	-730	-945	-1111	-943	-774	-867	-1178	-1780	-1718	-971
36	EXTREME WEATHER ADJ.	21/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	FIRM S/D W/EXT WEATHER ADJ.	-364	-383	-394	-97	41	-328	-195	-356	-189	-20	-114	-423	-1025	-971	-365
38	TOTAL S/D W/EXT WTHR. ADJ.	-762	-782	-792	-500	-363	-730	-945	-1111	-943	-774	-867	-1178	-1780	-1718	-971

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TABLE 1: PACIFIC NORTHWEST REGIONAL AREA

SUMMARY OF PACIFIC NORTHWEST REGIONAL LOADS AND RESOURCES
 UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

LOADS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	SYSTEM FIRM LOADS	1/ 19442	19442	18874	19662	21713	23308	24350	23132	21680	20290	20290	19539	19509	19673	20931
2	SYSTEM TOTAL LOADS	2/ 20133	20133	19564	20353	22404	23992	25035	23823	22369	20977	20977	20225	20194	20354	21618
3	EXPORTS	3/ 1721	1721	1683	1273	1189	1166	1168	1095	1118	1374	1374	1338	1833	1975	1411
4	FED DIVERSITY	4/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	FIRM LOADS	21163	21163	20557	20935	22902	24474	25518	24227	22798	21664	21664	20877	21342	21648	22342
6	TOTAL LOADS	21854	21854	21247	21626	23593	25158	26203	24918	23487	22351	22351	21563	22027	22329	23030

RESOURCES

7	REGULATED HYDRO	5/ 10222	10348	10306	10562	12077	13230	14394	12651	12442	11982	13256	16716	12654	10539	12348
8	INDEPENDENT HYDRO	6/ 1021	970	909	892	903	1098	871	1196	982	1004	1038	1075	1061	981	999
9	MAY WATER BUDGET	7/ 0	0	0	0	0	0	0	0	0	0	0	-2965	0	0	-247
10	SUS. PKNG. ADJUSTMENT	8/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	TOTAL HYDRO	11243	11318	10915	11454	12980	14328	15265	13847	13424	12986	14294	14826	13715	11520	13100
12	SMALL THERMAL & MISC	9/ 47	51	45	48	57	59	60	59	50	51	62	57	2	50	49
13	COMBUSTION TURBINES	10/ 602	602	602	602	750	745	745	760	602	355	355	355	452	452	585
14	RENEWABLES	11/ 47	47	47	47	47	47	47	47	47	47	47	47	4	47	43
15	COGENERATION	12/ 329	329	318	318	318	311	318	318	318	89	89	329	329	322	301
16	IMPORTS	13/ 1384	1384	1004	1120	1498	1901	1864	1849	1358	1243	1231	1331	1485	1628	1472
17	CENTRALIA	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	905	979	1235	1186
18	JIM BRIDGER	636	636	636	595	521	636	636	636	541	465	465	465	604	636	584
19	COLSTRIP 1 & 2	355	363	352	357	361	366	367	366	360	181	321	247	360	359	342
20	BOARDMAN	436	436	436	436	436	436	436	436	436	436	436	436	233	436	385
21	VALMY	211	211	211	211	211	211	211	211	169	116	101	165	211	202	194
22	COLSTRIP 3	524	529	522	525	528	532	533	532	528	530	218	329	528	527	499
23	WNP 2	872	872	872	872	872	872	872	872	872	698	0	0	815	872	751
24	COLSTRIP 4	655	655	655	654	655	654	654	654	655	654	262	401	655	655	617
25	FED RESOURCE ACQUIS	14/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	NON-UTILITY GENERATION	15/ 1173	1175	1097	1015	979	965	952	983	1012	1142	1148	858	1179	1224	1049
27	TOTAL RESOURCES	19749	19843	18947	19489	21448	23298	24195	22805	21607	20228	20264	20343	21551	20165	21157
28	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	BPA SPINNING RESERVES	18/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	DSI RESERVES	19/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	HYDRO MAINTENANCE	20/ -31	-25	-9	-9	-4	0	0	0	-5	-7	-8	-20	-15	-50	-12
33	NET RESOURCES	19718	19818	18938	19480	21444	23298	24195	22805	21602	20221	20256	20323	21536	20115	21145
34	FIRM SURPLUS/DEFICIT	-1445	-1345	-1619	-1455	-1458	-1176	-1323	-1422	-1196	-1443	-1408	-554	194	-1533	-1197
35	TOTAL SURPLUS/DEFICIT	-2136	-2036	-2309	-2146	-2149	-1860	-2008	-2113	-1885	-2130	-2094	-1240	-491	-2214	-1884
36	EXTREME WEATHER ADJ.	21/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	FIRM S/D W/EXT WEATHER ADJ.	-1445	-1345	-1619	-1455	-1458	-1176	-1323	-1422	-1196	-1443	-1408	-554	194	-1533	-1197
38	TOTAL S/D W/EXT WTHR. ADJ.	-2136	-2036	-2309	-2146	-2149	-1860	-2008	-2113	-1885	-2130	-2094	-1240	-491	-2214	-1884

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TABLE 1: PACIFIC NORTHWEST REGIONAL AREA

SUMMARY OF PACIFIC NORTHWEST REGIONAL LOADS AND RESOURCES
 UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR		2003- 4 OPERATING YEAR															
ENERGY IN AVERAGE MEGAWATTS		AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL		
		1-15	16-31								1-15	16-30					
LOADS																	
1	SYSTEM FIRM LOADS	1/	20141	20141	19563	20469	22742	24515	25448	24115	22623	21154	21154	20345	20304	20480	21825
2	SYSTEM TOTAL LOADS	2/	20761	20761	20183	21089	23364	25130	26062	24735	23241	21772	21772	20962	20921	21093	22443
3	EXPORTS	3/	2151	2151	2112	1704	1618	1588	1528	1463	1493	1506	1506	1466	2002	2136	1731
4	FED DIVERSITY	4/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	FIRM LOADS		22292	22292	21675	22173	24360	26103	26976	25578	24116	22660	22660	21811	22306	22616	23555
6	TOTAL LOADS		22912	22912	22295	22793	24982	26718	27590	26198	24734	23278	23278	22428	22923	23229	24173
RESOURCES																	
7	REGULATED HYDRO	5/	10216	10344	10000	10557	12071	13225	14390	12648	12439	11978	13251	16710	12648	10535	12343
8	INDEPENDENT HYDRO	6/	1018	966	905	887	899	1093	863	1192	978	999	1034	1071	1058	978	995
9	MAY WATER BUDGET	7/	0	0	0	0	0	0	0	0	0	0	0	-2965	0	0	-247
10	SUS. PKNG. ADJUSTMENT	8/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	TOTAL HYDRO		11234	11310	10905	11444	12970	14318	15258	13840	13417	12977	14285	14816	13706	11513	13091
12	SMALL THERMAL & MISC	9/	44	48	42	44	53	55	57	56	47	48	58	53	2	47	46
13	COMBUSTION TURBINES	10/	602	602	602	602	750	745	745	760	602	355	355	355	452	452	585
14	RENEWABLES	11/	48	48	48	48	48	48	48	48	48	48	48	48	4	48	44
15	COGENERATION	12/	329	329	318	318	318	311	318	318	318	89	89	329	329	322	301
16	IMPORTS	13/	1318	1318	990	1145	1656	1810	1744	1771	1401	1146	1134	1252	1412	1559	1433
17	CENTRALIA		1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	792	1107	1235	1187
18	JIM BRIDGER		636	636	636	601	515	636	636	636	546	465	465	465	599	636	584
19	COLSTRIP 1 & 2		348	355	345	349	354	359	361	360	354	178	315	243	354	354	336
20	BOARDMAN		436	436	436	436	436	436	436	436	436	436	436	28	233	436	385
21	VALMY		211	211	211	211	211	211	211	211	169	116	101	165	211	202	194
22	COLSTRIP 3		519	524	517	520	523	527	529	527	523	524	215	326	523	524	494
23	WNP 2		872	872	872	872	872	872	872	872	872	698	0	0	815	872	751
24	COLSTRIP 4		655	655	654	655	655	654	655	654	654	654	262	401	655	655	617
25	FED RESOURCE ACQUIS	14/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	NON-UTILITY GENERATION	15/	1111	1114	1035	954	917	904	891	922	951	1080	1087	821	1142	1160	991
27	TOTAL RESOURCES		19598	19693	18846	19434	21513	23121	23996	22647	21573	20049	20085	20094	21544	20015	21041
28	HYD, SM THRM & MISC RES	16/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	LARGE THERMAL RESERVES	17/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	BPA SPINNING RESERVES	18/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	DSI RESERVES	19/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	HYDRO MAINTENANCE	20/	-31	-25	-9	-9	-4	0	0	0	-5	-7	-8	-20	-15	-50	-12
33	NET RESOURCES		19567	19668	18837	19425	21509	23121	23996	22647	21568	20042	20077	20074	21529	19965	21029
34	FIRM SURPLUS/DEFICIT		-2725	-2624	-2838	-2748	-2851	-2982	-2980	-2931	-2548	-2618	-2583	-1737	-777	-2651	-2526
35	TOTAL SURPLUS/DEFICIT		-3345	-3244	-3457	-3368	-3472	-3597	-3594	-3551	-3167	-3236	-3200	-2354	-1394	-3264	-3144
36	EXTREME WEATHER ADJ.	21/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	FIRM S/D W/EXT WEATHER ADJ.		-2725	-2624	-2838	-2748	-2851	-2982	-2980	-2931	-2548	-2618	-2583	-1737	-777	-2651	-2526
38	TOTAL S/D W/EXT WTHR. ADJ.		-3345	-3244	-3457	-3368	-3472	-3597	-3594	-3551	-3167	-3236	-3200	-2354	-1394	-3264	-3144

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REGIONAL FOOTNOTES

Regional Table 1

1. Firm loads for the region include the sum of the estimated firm loads of Federal agencies, public agencies, Direct Service Industries (DSIs), Investor-Owned Utilities (IOUs), and associated transmission losses. Peak loads represent non-coincidental capacity demands adjusted to account for Federal system diversity; they are based on the prediction of normal weather and have a 50-percent chance of being exceeded.
2. Total loads for the region include system firm loads, plus BPA's nonfirm loads, which include industrial top-quartile loads, associated transmission losses, and Utah Power Company's interruptible load.
3. Exports from the region by Northwest utilities include BPA's surplus firm power sales to the cities of Burbank, Glendale, Pasadena, Sacramento Municipal Utility District, San Diego Gas and Electric, and Southern California Edison; BPA's surplus firm power sale to M-S-R Power agency, which converts to a capacity sale on November 1, 2009; BPA's capacity contracts with the cities of Anaheim and Riverside; BPA's contract with BC Hydro for Canadian Entitlement beginning April 1, 1998; BPA's Northwest-Southwest Intertie losses; Idaho Power Company's power sales to Sierra Pacific, the cities of Azusa, Banning, and Colton in California, the city of Washington in Utah, and Utah Associated Municipal Power Systems (UAMPS); Montana Power Company's power sales to the Los Angeles Department of Water and Power; Pacific Power and Light's transfer to its Northern California load, power sales to California Department of Water Resources, Pacific Gas and Electric, Southern California Edison, Sacramento Municipal Utility District, and the Western Area Power Administration (WAPA); Portland General Electric's power sales to the cities of Burbank and Glendale, Southern California Edison, and WAPA, and seasonal power exchange deliveries to Southern California Edison; Puget Sound Power and Light's seasonal power exchange deliveries to Pacific Gas and Electric; Washington Water Power's seasonal power exchange deliveries to Pacific Gas and Electric; the City of Idaho Falls' contract with Utah Power Company for Gem State Hydro; Seattle City Light's seasonal power exchange deliveries to Northern California Public Agencies; Snohomish County Public Utility District's seasonal power exchange with Sacramento Municipal Utility District, and Tacoma Public Utilities' power sale to WAPA.

Also included in exports are resources purchased by utilities outside the region. These include WAPA's purchase of the output of Longview Fibre, 14.2 percent of the

Boardman coal plant sold to San Diego Gas and Electric, and 10 percent of the Boardman coal plant sold to the City of Turlock, CA.

4. Federal diversity is a percentage reduction applied to the Federal system non-coincidental peak utility allocation requirements. This is because all peaking electrical loads do not occur simultaneously throughout the region.
5. Regulated hydro includes those hydro dams where the firm energy generation of the dam is affected by the release of stored water from upstream reservoirs. Regulated hydro generation is determined by completing a hydro regulation study of the Pacific Northwest hydro system.
6. Independent hydro includes those hydro dams where no reservoirs exist upstream to release stored water and the firm energy is based on fixed historical flows. Hydro independents are not changed as a part of the hydro regulation study.
7. May Water Budget is the energy loss due to the overgeneration which may be unusable as a firm resource on the Federal system. This is a new adjustment due to the use of a 42-month critical period average hydro number rather than the 39-month critical period average hydro number used in last year's study.
8. Sustained peaking adjustment is a percentage reduction applied to the Federal hydro system to meet a capacity load of 50 hours per week. This adjustment also includes reductions for Federal hydro maintenance, spinning reserves, forced outage reserves, and summer flow augmentation on the Lower Snake River and John Day hydro projects.
9. Small thermal and miscellaneous resources include City of Idaho Falls' Diesel; Tacoma Public Utilities' Steam Plant No. 2; Idaho Power Company's Energy Management System; Portland General Electric's Summit units; Puget Sound Power and Light's Crystal Mountain and Shuffleton; Montana Power Company's portion of Corette and Bird in the region; and Seattle City Light's Boundary.
10. Combustion turbines include Idaho Power Company's Wood River; Portland General Electric's Bethel and Beaver; Puget Sound Power and Light's Whidbey Island, Whitehorn, Fredrickson, and Fredonia units; and Washington Water Power's Northeast units and Rathdrum units.
11. Renewables include Emerald County PUD's Short Mountain; and Washington Water Power's Kettle Falls.
12. Cogeneration includes Eugene Water and Electric Board's WEYCO Energy Center; Snohomish County PUD's Scott Paper; and Portland General Electric's Coyote Springs. Longview Fibre output is sold outside the region to WAPA.
13. Imports include exchange energy to BPA from the cities of Anaheim and Riverside; exchange energy from the M-S-R Public Power Agency after their surplus firm sale converts to a capacity/energy exchange beginning November 1, 2009; deferred energy returns from Sacramento Municipal Utility District and San Diego Gas and Electric; exchange energy returned from San Diego Gas and Electric; power from Pacific Power and Light's Wyoming Division to serve BPA's Southern Idaho load; Power purchases from Basin Electric Cooperative and Powerex (TransAlta); Pacific Power

and Light transfers from their Wyoming division and seasonal power exchange deliveries to Portland General Electric from Southern California Edison; power sale deliveries to Puget Sound Power and Light from BC Hydro, and seasonal power exchange deliveries from Pacific Gas & Electric; Utah Power Company's intra-company transfer; seasonal power exchange deliveries to Washington Water Power from Pacific Gas and Electric; and power deliveries to Seattle City Light from BC Hydro for Ross replacement, and seasonal power exchange deliveries from Northern California Public Agencies.

14. Resource acquisitions are resources BPA has identified and contracted for future purchase. When new Federal resource acquisitions are contracted for and/or on-line, they will be included in the loads and resources balance.
15. Non-utility generation (NUG) resources include generation provided to utilities by independent power producers and resources included under the Public Utility Regulatory Policies Act (PURPA). This study included 180 Individual NUGs.
16. Hydro, small thermal and miscellaneous resources, and combustion turbine reserve requirements are estimated at 5 percent of the capacity of these resources for all utilities in the region.
17. Large thermal reserves requirements are estimated at 15 percent of the total capacity of the Pacific Power and Light thermal import into the region plus the large thermal resources owned by utilities in the region.
18. Federal spinning reserves equal the reserve generating capacity maintained to provide a regulating margin for the automatic generation and frequency control of power generation.
19. Direct service industry reserve requirements are estimated at one-third of the industrial firm load, or the sum of the reserve requirements for Federal hydro, small thermal and miscellaneous resources, combustion turbines, and large thermal, whichever is smaller.
20. Hydro maintenance is the sum of individual Federal system, public agency, and IOU hydro project maintenance, based on the average of the 1983-84 through 1988-89 schedules submitted to the Northwest Power Pool.
21. Extreme weather adjustment is the sum of all utility load responses with Pacific Northwest cold weather, and has a 5 percent chance of being exceeded.

TABLE 2: FEDERAL SYSTEM

SUMMARY OF FEDERAL SYSTEM LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS																
1	FEDERAL AGENCIES	152	152	145	149	153	169	163	164	157	149	149	143	142	151	153
2	FEDERAL & GEN PUBLIC LOSSES	143	143	137	151	191	222	232	211	184	163	163	145	141	141	172
3	USBR	161	161	108	42	2	2	2	2	4	50	50	117	151	168	67
4	DSI ALUMINUM FIRM	2033	2033	2033	2033	2033	2033	2011	2011	2011	2011	2011	2011	2011	1998	2019
5	DSI NON-ALUM FIRM	151	151	151	164	164	157	172	187	187	187	187	194	194	187	175
6	DSI FIRM LOSSES	57	57	57	59	64	68	68	68	64	61	61	60	60	57	62
7	SM & NON GEN PUB PURCH 1/	3014	3015	2820	2901	3354	3723	3850	3623	3304	3123	3125	3002	2963	3122	3233
8	FIRM SYSTEM LOAD	5711	5712	5451	5499	5961	6374	6498	6266	5911	5744	5746	5672	5662	5824	5881
TRANSFERS OUT																
9	EXPORTS 2/	394	394	397	240	221	196	198	187	188	185	185	351	381	393	278
10	CONTRACTS OUT 3/	409	409	438	654	985	1039	1013	945	753	487	487	192	203	338	621
11	CSPE TO WEST GROUP UTIL 4/	279	279	279	279	279	279	279	279	279	268	268	268	268	268	275
12	GEN PUBLIC AGEN PURCH 5/	1488	1493	1519	1688	2095	2121	2220	2061	1962	1768	1761	1641	1524	1492	1791
13	GEN PRIVATE UTIL PURCH 6/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	FED DIVERSITY 7/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	FIRM LOADS	8281	8287	8085	8360	9451	10009	10208	9738	9092	8452	8447	8124	8038	8315	8846
16	DSI ALUM TOP QUARTILE 8/	338	338	338	338	338	338	671	671	671	671	671	671	671	666	532
17	DSI NON-ALUMINUM TQ 8/	50	50	50	55	55	52	57	62	62	62	62	65	65	62	58
18	TOP QUARTILE LOSSES 8/	10	10	10	11	11	12	23	23	21	21	21	20	20	19	17
19	TOTAL LOADS	8679	8685	8483	8763	9855	10412	10958	10493	9846	9205	9200	8879	8793	9062	9452
RESOURCES																
20	REGULATED HYDRO	6646	6936	6182	6447	7772	7967	9043	7624	7732	7317	8161	10684	6445	6078	7542
21	INDEPENDENT HYDRO	407	356	321	316	289	342	192	339	242	236	259	346	381	363	313
22	MAY WATER BUDGET 9/	0	0	0	0	0	0	0	0	0	0	0	-2965	0	0	-247
23	SUS. PKNG. ADJUSTMENT 10/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	CAN. ENT. NON-FED(CSPE) 11/	59	59	59	59	59	59	59	59	59	56	56	56	56	56	58
25	CAN. ENT. NON-FED(CNDA) 12/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	RESTORATION 13/	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
27	TOTAL HYDRO	7086	7325	6536	6796	8094	8342	9268	7996	8007	7583	8450	8095	6856	6471	7640
28	SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	IMPORTS 14/	266	266	461	539	592	646	599	555	382	213	89	0	138	287	385
33	CONTRACTS IN 15/	29	29	260	368	368	368	368	368	368	368	260	29	180	29	254
34	LARGE THERMAL 16/	826	826	826	826	826	826	826	826	826	661	0	0	771	867	715
35	RESOURCE ACQUISITIONS 17/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	TOTAL RESOURCES	8207	8446	8083	8529	9880	10182	11061	9745	9583	8825	8799	8124	7945	7654	8994

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TABLE 2: FEDERAL SYSTEM (CONTINUED)

SUMMARY OF FEDERAL SYSTEM LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
37 HYD, SM THRM & MISC RES 18/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 LARGE THERMAL RESERVES 19/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 SPINNING RESERVES 20/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 DSI RESERVES 21/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 FEDERAL HYDRO MAINT 22/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 NET RESOURCES	8207	8446	8083	8529	9880	10182	11061	9745	9583	8825	8799	8124	7945	7654	8994	
43 FIRM SURPLUS/DEFICIT	-74	159	-2	169	429	173	853	7	491	373	352	0	-93	-661	148	
44 TOTAL SURPLUS/DEFICIT	-472	-239	-400	-234	25	-230	103	-748	-263	-380	-401	-755	-848	-1408	-459	
45 EXTREME WEATHER ADJ. 23/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 FIRM S/D W/EXT WEATHER ADJ.	-74	159	-2	169	429	173	853	7	491	373	352	0	-93	-661	148	
47 TOTAL S/D W/EXT WTHR. ADJ.	-472	-239	-400	-234	25	-230	103	-748	-263	-380	-401	-755	-848	-1408	-459	
48 POSS FED EXT WTHR. OBLIG 24/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 FIRM S/D W/EXT WTHR. OBLIG	-74	159	-2	169	429	173	853	7	491	373	352	0	-93	-661	148	
50 TOTAL S/D W/EXT WTHR. OBLIG	-472	-239	-400	-234	25	-230	103	-748	-263	-380	-401	-755	-848	-1408	-459	

- NOTE: 1. BPA SURPLUS POWER SALES CONTRACTS WITH THE PSW ARE SHOWN AS POWER SALES UNTIL THEY EXPIRE.
2. BPA SURPLUS POWER SALES CONTRACT WITH PSP&L IS SHOWN AS A POWER SALE THROUGH JUNE 30, 2001. THE CONTRACT THEN CONVERTS TO A SEASONAL POWER EXCHANGE WHICH EXPIRES JULY 1, 2008.
3. THE FOLLOWING BPA CONTRACTS ARE RESOURCE OPTIONS AND NOT INCLUDED IN THIS ANALYSIS.
- A. BGP TO BPA, SUPPLEMENTAL ENERGY
 - B. SCE TO BPA, SUPPLEMENTAL ENERGY
 - C. SCE TO BPA, OPTION ENERGY

TABLE 2: FEDERAL SYSTEM

SUMMARY OF FEDERAL SYSTEM LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR		1998-99 OPERATING YEAR														
ENERGY IN AVERAGE MEGAWATTS		AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL	
		1-15	16-31								1-15	16-30				
LOADS																
1	FEDERAL AGENCIES	156	156	149	152	157	173	167	168	160	152	152	147	145	155	157
2	FEDERAL & GEN PUBLIC LOSSES	142	142	135	151	195	227	239	218	188	164	164	146	142	139	174
3	USBR	161	161	109	42	2	2	2	2	4	50	50	117	151	168	67
4	DSI ALUMINUM FIRM	1810	1810	1810	1810	1810	1810	1808	1808	1808	1806	1806	1806	1806	1805	1808
5	DSI NON-ALUM FIRM	210	210	208	207	206	180	186	201	200	198	198	197	195	186	198
6	DSI FIRM LOSSES	53	53	52	54	58	62	62	62	58	56	56	54	54	52	56
7	SM & NON GEN PUB PURCH	1/ 3263	3262	3083	3156	3601	3956	4167	3915	3564	3358	3360	3212	3152	3330	3480
8	FIRM SYSTEM LOAD	5795	5794	5546	5572	6029	6410	6631	6374	5982	5784	5786	5679	5645	5835	5940
TRANSFERS OUT																
9	EXPORTS	2/ 348	348	352	330	298	265	267	254	255	510	510	524	565	607	381
10	CONTRACTS OUT	3/ 13	13	42	258	785	840	813	770	502	325	325	0	18	34	367
11	CSPE TO WEST GROUP UTIL	4/ 215	215	215	215	215	215	215	215	215	103	103	103	103	103	178
12	GEN PUBLIC AGEN PURCH	5/ 1765	1792	1800	1976	2286	2406	2561	2385	2268	2063	2048	1883	1761	1726	2074
13	GEN PRIVATE UTIL PURCH	6/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	FED DIVERSITY	7/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	FIRM LOADS	8135	8161	7955	8350	9613	10135	10487	9998	9222	8785	8772	8189	8092	8305	8939
16	DSI ALUM TOP QUARTILE	8/ 603	603	603	603	603	603	603	603	603	602	602	602	602	602	603
17	DSI NON-ALUMINUM TQ	8/ 70	70	70	69	69	60	62	67	67	66	66	66	65	62	66
18	TOP QUARTILE LOSSES	8/ 18	18	18	18	20	21	21	21	19	19	19	18	18	17	19
19	TOTAL LOADS	8826	8852	8645	9041	10305	10819	11172	10689	9910	9471	9458	8875	8777	8986	9627
RESOURCES																
20	REGULATED HYDRO	6266	6790	5987	6267	7450	8060	8972	7614	7707	7297	8205	11023	7778	6337	7623
21	INDEPENDENT HYDRO	407	356	321	316	289	342	192	339	242	236	259	346	381	363	313
22	MAY WATER BUDGET	9/ 0	0	0	0	0	0	0	0	0	0	0	-2965	0	0	-247
23	SUS. PKNG. ADJUSTMENT	10/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	CAN. ENT. NON-FED(CSPE)	11/ 45	45	45	45	45	45	45	45	45	23	23	23	23	23	38
25	CAN. ENT. NON-FED(CNDA)	12/ 11	11	11	11	11	11	11	11	11	70	70	70	70	70	31
26	RESTORATION	13/ -26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
27	TOTAL HYDRO	6703	7176	6338	6613	7769	8432	9194	7983	7979	7600	8531	8471	8226	6767	7731
28	SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	IMPORTS	14/ 13	13	42	120	173	227	201	157	129	101	89	0	18	34	101
33	CONTRACTS IN	15/ 29	29	288	288	288	288	288	288	288	288	288	29	288	29	223
34	LARGE THERMAL	16/ 872	872	872	872	872	872	872	872	872	698	0	0	815	872	751
35	RESOURCE ACQUISITIONS	17/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	TOTAL RESOURCES	7617	8090	7540	7893	9102	9819	10555	9300	9268	8687	8908	8500	9347	7702	8806

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TABLE 2: FEDERAL SYSTEM (CONTINUED)

SUMMARY OF FEDERAL SYSTEM LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
37 HYD, SM THRM & MISC RES 18/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 LARGE THERMAL RESERVES 19/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 SPINNING RESERVES 20/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 DSI RESERVES 21/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 FEDERAL HYDRO MAINT 22/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 NET RESOURCES	7617	8090	7540	7893	9102	9819	10555	9300	9268	8687	8908	8500	9347	7702	8806
43 FIRM SURPLUS/DEFICIT	-518	-71	-415	-457	-511	-316	68	-698	46	-98	136	311	1255	-603	-133
44 TOTAL SURPLUS/DEFICIT	-1209	-762	-1105	-1148	-1203	-1000	-617	-1389	-642	-784	-550	-375	570	-1284	-820
45 EXTREME WEATHER ADJ. 23/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 FIRM S/D W/EXT WEATHER ADJ.	-518	-71	-415	-457	-511	-316	68	-698	46	-98	136	311	1255	-603	-133
47 TOTAL S/D W/EXT WTHR. ADJ.	-1209	-762	-1105	-1148	-1203	-1000	-617	-1389	-642	-784	-550	-375	570	-1284	-820
48 POSS FED EXT WTHR. OBLG 24/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 FIRM S/D W/EXT WTHR. OBLIG	-518	-71	-415	-457	-511	-316	68	-698	46	-98	136	311	1255	-603	-133
50 TOTAL S/D W/EXT WTHR. OBLIG	-1209	-762	-1105	-1148	-1203	-1000	-617	-1389	-642	-784	-550	-375	570	-1284	-820

- NOTE: 1. BPA SURPLUS POWER SALES CONTRACTS WITH THE PSW ARE SHOWN AS POWER SALES UNTIL THEY EXPIRE.
2. BPA SURPLUS POWER SALES CONTRACT WITH PSP&L IS SHOWN AS A POWER SALE THROUGH JUNE 30, 2001. THE CONTRACT THEN CONVERTS TO A SEASONAL POWER EXCHANGE WHICH EXPIRES JULY 1, 2008.
3. THE FOLLOWING BPA CONTRACTS ARE RESOURCE OPTIONS AND NOT INCLUDED IN THIS ANALYSIS.
- A. BGP TO BPA, SUPPLEMENTAL ENERGY
 - B. SCE TO BPA, SUPPLEMENTAL ENERGY
 - C. SCE TO BPA, OPTION ENERGY

TABLE 2: FEDERAL SYSTEM

SUMMARY OF FEDERAL SYSTEM LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS																
1	FEDERAL AGENCIES	160	160	153	156	161	179	172	174	165	156	156	150	149	159	161
2	FEDERAL & GEN PUBLIC LOSSES	147	147	139	153	204	238	249	226	192	173	173	155	149	147	181
3	USBR	162	162	109	42	2	2	2	2	4	50	50	118	152	169	68
4	DSI ALUMINUM FIRM	1646	1646	1646	1646	1646	1646	1637	1637	1637	1637	1637	1636	1636	1635	1640
5	DSI NON-ALUM FIRM	166	166	166	166	166	142	149	166	166	166	166	166	166	158	162
6	DSI FIRM LOSSES	47	47	47	49	53	55	56	56	52	50	50	49	49	47	51
7	SM & NON GEN PUB PURCH 1/	3446	3445	3253	3351	3867	4266	4426	4160	3791	3557	3559	3404	3339	3526	3699
8	FIRM SYSTEM LOAD	5774	5773	5513	5563	6099	6528	6691	6421	6007	5789	5791	5678	5640	5841	5962
TRANSFERS OUT																
9	EXPORTS 2/	827	827	831	809	777	744	747	733	734	731	731	745	786	828	774
10	CONTRACTS OUT 3/	13	13	42	108	784	839	812	769	352	326	326	0	18	34	341
11	CSPE TO WEST GROUP UTIL 4/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	GEN PUBLIC AGEN PURCH 5/	1955	1986	1996	2217	2586	2738	2867	2675	2545	2317	2302	2124	1969	1941	2328
13	GEN PRIVATE UTIL PURCH 6/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	FED DIVERSITY 7/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	FIRM LOADS	8569	8599	8382	8697	10246	10849	11117	10598	9638	9163	9150	8547	8413	8644	9406
16	DSI ALUM TOP QUARTILE 8/	549	549	549	549	549	549	546	546	546	546	546	546	546	545	547
17	DSI NON-ALUMINUM TQ 8/	55	55	55	55	55	47	50	55	55	55	55	55	55	53	54
18	TOP QUARTILE LOSSES 8/	16	16	16	16	18	19	19	19	17	17	17	16	16	16	17
19	TOTAL LOADS	9189	9219	9002	9317	10867	11463	11731	11217	10256	9781	9768	9164	9030	9257	10024
RESOURCES																
20	REGULATED HYDRO	6266	6790	5987	6267	7450	8060	8972	7614	7707	7297	8205	11023	7778	6337	7623
21	INDEPENDENT HYDRO	407	356	321	316	289	342	192	339	242	236	259	346	381	363	313
22	MAY WATER BUDGET 9/	0	0	0	0	0	0	0	0	0	0	0	-2965	0	0	-247
23	SUS. PKNG. ADJUSTMENT 10/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	CAN. ENT. NON-FED(CSPE) 11/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	CAN. ENT. NON-FED(CNDA) 12/	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
26	RESTORATION 13/	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
27	TOTAL HYDRO	6766	7239	6401	6676	7832	8495	9257	8046	8042	7626	8557	8497	8252	6793	7782
28	SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	IMPORTS 14/	13	13	42	120	173	227	201	157	129	101	89	0	18	34	101
33	CONTRACTS IN 15/	151	152	410	411	259	259	259	259	259	259	259	0	259	151	245
34	LARGE THERMAL 16/	872	872	872	872	872	872	872	872	872	698	0	0	815	872	751
35	RESOURCE ACQUISITIONS 17/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	TOTAL RESOURCES	7802	8276	7725	8079	9136	9853	10589	9334	9302	8684	8905	8497	9344	7850	8879

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TABLE 2: FEDERAL SYSTEM (CONTINUED)

SUMMARY OF FEDERAL SYSTEM LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	AUG		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL	
	1-15	16-31								1-15	16-30				
37 HYD, SM THRM & MISC RES 18/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 LARGE THERMAL RESERVES 19/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 SPINNING RESERVES 20/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 DSI RESERVES 21/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 FEDERAL HYDRO MAINT 22/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 NET RESOURCES	7802	8276	7725	8079	9136	9853	10589	9334	9302	8684	8905	8497	9344	7850	8879
43 FIRM SURPLUS/DEFICIT	-767	-323	-657	-618	-1110	-996	-528	-1264	-336	-479	-245	-50	931	-794	-527
44 TOTAL SURPLUS/DEFICIT	-1387	-943	-1277	-1238	-1731	-1610	-1142	-1883	-954	-1097	-863	-667	314	-1407	-1145
45 EXTREME WEATHER ADJ. 23/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 FIRM S/D W/EXT WEATHER ADJ.	-767	-323	-657	-618	-1110	-996	-528	-1264	-336	-479	-245	-50	931	-794	-527
47 TOTAL S/D W/EXT WTHR. ADJ.	-1387	-943	-1277	-1238	-1731	-1610	-1142	-1883	-954	-1097	-863	-667	314	-1407	-1145
48 POSS FED EXT WTHR. OBLG 24/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 FIRM S/D W/EXT WTHR. OBLIG	-767	-323	-657	-618	-1110	-996	-528	-1264	-336	-479	-245	-50	931	-794	-527
50 TOTAL S/D W/EXT WTHR. OBLIG	-1387	-943	-1277	-1238	-1731	-1610	-1142	-1883	-954	-1097	-863	-667	314	-1407	-1145

- NOTE: 1. BPA SURPLUS POWER SALES CONTRACTS WITH THE PSW ARE SHOWN AS POWER SALES UNTIL THEY EXPIRE.
2. BPA SURPLUS POWER SALES CONTRACT WITH PSP&L IS SHOWN AS A POWER SALE THROUGH JUNE 30, 2001. THE CONTRACT THEN CONVERTS TO A SEASONAL POWER EXCHANGE WHICH EXPIRES JULY 1, 2008.
3. THE FOLLOWING BPA CONTRACTS ARE RESOURCE OPTIONS AND NOT INCLUDED IN THIS ANALYSIS.
- A. BGP TO BPA, SUPPLEMENTAL ENERGY
 - B. SCE TO BPA, SUPPLEMENTAL ENERGY
 - C. SCE TO BPA, OPTION ENERGY

FEDERAL SYSTEM FOOTNOTES

Federal Table 2

1. BPA's small and nongenerating public agencies' purchases are requirements these agencies place on BPA under their power sales contracts and BPA's partnership program. BPA's obligation is each agency's net firm load requirement not served by its own dedicated resources.
2. BPA's exports include surplus firm power sales to the cities of Burbank, Glendale, and Pasadena, and to Southern California Edison; BPA's surplus firm power sale to M-S-R Power agency, which converts to a capacity sale on November 1, 2009; BPA's capacity contracts with the cities of Anaheim and Riverside; BPA's capacity for exchange energy with deferred return with the Sacramento Municipal Utility District and San Diego Gas and Electric; BPA's contract with BC Hydro for Canadian Entitlement beginning April 1, 1998; and BPA's Northwest-Southwest Intertie losses.
3. BPA's contracts out include its contracts of Canadian Entitlement capacity and supplemental capacity to Pacific Northwest public agencies and IOUs, which expire March 31, 2003; BPA's contracts with Clark County PUD and other public agencies (Packwood Lake); BPA's WNP-1 obligation contracts with Montana Power Company, Pacific Power and Light, Portland General Electric, Puget Sound Power and Light, and Washington Water Power; BPA's WNP-3 settlement contracts with Pacific Power and Light, Portland General Electric, Puget Sound Power and Light, and Washington Water Power; BPA's power transfer through Pacific Power and Light's system to serve BPA's Southern Idaho load; BPA's capacity sale with Montana Power Company; BPA's surplus firm power sale to Puget Sound Power and Light, which converts to a seasonal power exchange in OY 2001-02; BPA's surplus firm capacity sale to Washington Water Power; BPA's bridge capacity sale to Pacific Power and Light through July 31, 1995; and BPA's Baker Head loss replacement with Puget Sound Power and Light.
4. Columbia Storage Power Exchange (CSPE) is the sale of the Canadian share of downstream benefits under the Columbia River Treaty with Canada to a group of Northwest utilities, expiring April 1, 2003.
5. BPA's generating public agencies' purchases are requirements which these agencies place on BPA under their power sales contracts and BPA's partnership program. BPA's obligation is each agency's net firm load requirement not served by its own dedicated resources. These contracts actually expire June 30, 2001; however, they are assumed to remain in effect through the 20-year study period.
6. Generating private utility purchase is the contracted peak and energy requirement placed on the Federal system under the IOUs' power sales contracts with BPA.

Portland General Electric is purchasing capacity through June 30, 1999. These contracts actually expire June 30, 2001; however, they are assumed to remain in effect through the 10-year study period.

7. Federal diversity is a percentage reduction applied to the Federal system non-coincidental peak utility requirements. This is due to the fact that all peaking electrical loads do not occur simultaneously throughout the region.
8. DSIs' aluminum and nonaluminum top quartile load and associated line losses are BPA's interruptible loads.
9. May Water Budget is the energy loss due to the overgeneration which may be unusable as a firm resource on the Federal system. This is a new adjustment due to the use of a 42-month critical period average hydro number rather than the 39-month critical period average hydro number used in last year's study.
10. Sustained peaking adjustment is a percentage reduction applied to the Federal hydro system to meet a capacity load of 50 hours per week. This adjustment also includes reductions for Federal hydro maintenance, spinning reserves, forced outage reserves, and summer flow augmentation on the Lower Snake River and John Day hydro projects.
11. Canadian Entitlement Return non-Federal to the Columbia River Storage Exchange (CSPE) reflects the public agencies' and IOUs' obligation of Canadian Entitlement allocation to the Northwest entities of the CSPE, which expires March 31, 2003.
12. Canadian Entitlement Return non-Federal to Canada reflects the Federal system, public agencies', and IOUs' obligation of Canadian Entitlement allocation to Canada, which begins April 1, 1998.
13. Restoration adjusts for the losses and gains of the hydro system due to Canadian storage under the terms of the Pacific Northwest Coordination Agreement. It is an obligation to those utilities that gained generation from the addition of Canadian storage, and a resource gain to utilities that lost generation from Canadian storage.
14. Imports includes exchange energy to BPA from the cities of Anaheim and Riverside; exchange energy from the M-S-R Public Power Agency after its surplus firm sale converts to a capacity/energy exchange beginning November 1, 2009; exchange energy returned from San Diego Gas and Electric; deferred energy return from Sacramento Municipal Utility District and San Diego Gas and Electric; power purchases from Basin Electric Cooperative and Trans Alta; and power from Pacific Power and Light's Wyoming Division to serve BPA's Southern Idaho load.
15. Federal contracts in includes exchange energy to BPA from Montana Power Company; WNP-3 settlement exchange energy from Pacific Power and Light, Portland General Electric, Puget Sound Power and Light, and Washington Water Power; and seasonal power exchange energy from Puget Sound Power and Light beginning in OY 2001-02; and power purchases from Puget Sound Power and Light and Montana Power Company.
16. Federal large thermal includes the generation from WNP-2, operated by WPPSS.

17. Resource acquisitions are resources BPA has identified and contracted for future purchase. When new Federal resource acquisitions are contracted for and/or on-line, they will be included in the loads and resources balance.
18. Hydro, small thermal and miscellaneous resources, and combustion turbine reserve requirements are estimated at 5 percent of the Federal capacity of these resources.
19. Large thermal reserve requirements are estimated at 15 percent of the WNP-2 nuclear project.
20. Federal spinning reserve is the reserve generating capacity maintained to provide a regulating margin for the automatic generation and frequency control of power generation.
21. Direct service industrial reserve requirements are one-third of the industrial firm load, or the sum of the reserve requirements for Federal hydro, small thermal and miscellaneous resources, combustion turbines, and large thermal resources, whichever is smaller.
22. Hydro maintenance is the sum of all Federal hydro project maintenance based on the mean of the 1983-84 through 1988-89 schedules submitted to the Northwest Power Pool.
23. Extreme weather adjustment for BPA's directly served loads.
24. Possible Federal extreme weather adjustment is the possible load on BPA by public agencies customers having the right to place this obligation on BPA.

TABLE 3: TOTAL PUBLIC AGENCIES

SUMMARY OF PUBLIC AGENCIES LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
 UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT
 LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS																
1	SYSTEM LOADS	6493	6493	6327	6767	7738	8348	8662	8187	7651	7165	7165	6728	6509	6596	7264
2	EXPORTS	1/ 75	75	100	82	40	29	20	24	32	41	41	41	89	91	55
3	CONTRACTS OUT	2/ 171	171	74	105	55	60	60	56	57	58	58	60	69	167	83
4	TOTAL LOADS	6739	6739	6501	6954	7833	8437	8742	8267	7740	7264	7264	6829	6667	6854	7402
RESOURCES																
5	REGULATED HYDRO	1346	1269	1390	1690	1676	1832	1854	1724	1639	1677	1891	1807	1618	1495	1651
6	INDEPENDENT HYDRO	67	68	61	68	59	67	80	161	95	107	107	89	88	70	84
7	MAY WATER BUDGET	3/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	CAN. ENT. RETURN (CSPE)	4/ -19	-19	-19	-19	-19	-19	-19	-19	-19	-18	-18	-18	-18	-18	-19
9	CAN. ENT. RETURN (CANADA)	5/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	RESTORATION	6/ 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11	TOTAL HYDRO	1396	1320	1434	1741	1718	1882	1917	1868	1717	1768	1982	1880	1690	1549	1719
12	SMALL THERMAL & MISC	7/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	COMBUSTION TURBINES	8/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	CSPE PURCHASE	9/ 139	139	139	139	139	139	139	139	139	134	134	134	134	134	137
15	RENEWABLES	10/ 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16	COGENERATION	11/ 15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17	IMPORTS	12/ 18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
18	CONTRACTS IN	13/ 106	106	60	110	96	113	112	122	60	61	60	60	57	49	84
19	LARGE THERMAL	14/ 297	297	297	297	297	297	297	297	297	297	297	207	243	297	285
20	NON-UTILITY GENERATION	15/ 193	193	140	78	35	35	17	20	42	150	150	241	255	229	120
21	TOTAL RESOURCES	2166	2090	2100	2401	2337	2521	2557	2530	2332	2454	2667	2565	2432	2292	2396
22	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PUBLIC HYDRO MAINT	18/ 0	-4	-2	-5	-4	0	0	0	-2	-4	-4	-11	-3	0	-3
25	NET RESOURCES	2166	2086	2098	2396	2333	2521	2557	2530	2330	2450	2663	2554	2429	2292	2394
26	SURPLUS/DEFICIT	-4573	-4653	-4403	-4558	-5500	-5916	-6185	-5737	-5410	-4814	-4601	-4275	-4238	-4562	-5009
27	DEDICATED RESOURCES	19/ 1916	1845	1942	2215	2179	2345	2363	2352	2207	2290	2503	2377	2225	2093	2215
28	BPA PWR SLE CNTRCT PRCH	20/ 4502	4508	4340	4589	5359	5844	6070	5684	5265	4891	4886	4643	4487	4614	5024
29	SURPLUS/DEFICIT W/PURCHASE	-71	-145	-63	31	-141	-72	-115	-53	-145	77	285	368	248	52	15
30	EXTREME WEATHER ADJ.	21/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SURPLUS/DEFICIT W/EXTRM WX	-124	-198	-96	16	-141	-72	-115	-53	-149	42	250	319	193	-7	-10
32	POSSIBLE OBLIG ON BPA	22/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	SURPLUS/DEFICIT AFTR BPA OB	-124	-198	-96	16	-141	-72	-115	-53	-149	42	250	319	193	-7	-10

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TABLE 3: TOTAL PUBLIC AGENCIES

SUMMARY OF PUBLIC AGENCIES LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS																
1	SYSTEM LOADS	7041	7041	6862	7277	8217	8801	9335	8797	8205	7642	7642	7147	6899	6996	7768
2	EXPORTS	1/ 107	107	123	105	64	52	43	47	55	73	73	73	121	123	82
3	CONTRACTS OUT	2/ 171	171	75	106	56	59	60	57	58	59	59	60	69	168	83
4	TOTAL LOADS	7319	7319	7060	7488	8337	8912	9438	8901	8318	7774	7774	7280	7089	7287	7934
RESOURCES																
5	REGULATED HYDRO	1471	1230	1398	1690	1755	1853	1906	1727	1587	1622	1908	1896	1759	1550	1686
6	INDEPENDENT HYDRO	74	75	68	75	66	74	87	168	102	114	114	96	95	77	91
7	MAY WATER BUDGET	3/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	CAN. ENT. RETURN (CSPE)	4/ -14	-14	-14	-14	-14	-14	-14	-14	-14	-6	-6	-6	-6	-6	-11
9	CAN. ENT. RETURN (CANADA)	5/ -4	-4	-4	-4	-4	-4	-4	-4	-4	-22	-22	-22	-22	-22	-10
10	RESTORATION	6/ 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11	TOTAL HYDRO	1529	1289	1450	1749	1805	1911	1977	1879	1673	1710	1996	1966	1828	1601	1758
12	SMALL THERMAL & MISC	7/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	COMBUSTION TURBINES	8/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	CSPE PURCHASE	9/ 106	106	106	106	106	106	106	106	106	52	52	52	52	52	88
15	RENEWABLES	10/ 4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
16	COGENERATION	11/ 53	53	42	42	42	35	42	42	42	53	53	53	53	46	45
17	IMPORTS	12/ 18	18	13	19	59	75	88	97	90	33	33	26	36	24	48
18	CONTRACTS IN	13/ 96	97	50	100	86	104	106	107	46	46	46	46	45	45	73
19	LARGE THERMAL	14/ 346	346	346	346	346	346	346	346	346	346	346	253	273	346	332
20	NON-UTILITY GENERATION	15/ 195	195	124	61	18	17	18	21	43	151	151	242	257	230	115
21	TOTAL RESOURCES	2347	2108	2135	2427	2466	2598	2687	2602	2350	2395	2681	2642	2548	2348	2464
22	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PUBLIC HYDRO MAINT	18/ 0	-4	-2	-5	-4	0	0	0	-2	-4	-4	-11	-3	0	-3
25	NET RESOURCES	2347	2104	2133	2422	2462	2598	2687	2602	2348	2391	2677	2631	2545	2348	2461
26	SURPLUS/DEFICIT	-4972	-5215	-4927	-5066	-5875	-6314	-6751	-6299	-5970	-5383	-5097	-4649	-4544	-4939	-5472
27	DEDICATED RESOURCES	19/ 2041	1805	1931	2194	2241	2348	2416	2348	2149	2174	2461	2409	2297	2099	2223
28	BPA PWR SLE CNTRCT PRCH	20/ 5027	5053	4883	5131	5887	6361	6728	6300	5832	5421	5408	5095	4913	5056	5553
29	SURPLUS/DEFICIT W/PURCHASE	55	-161	-44	65	13	47	-23	1	-138	38	311	446	369	117	81
30	EXTREME WEATHER ADJ.	21/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SURPLUS/DEFICIT W/EXTRM WX	1	-215	-77	50	13	47	-23	1	-142	3	276	397	314	58	56
32	POSSIBLE OBLIG ON BPA	22/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	SURPLUS/DEFICIT AFTR BPA OB	1	-215	-77	50	13	47	-23	1	-142	3	276	397	314	58	56

TABLE 3: TOTAL PUBLIC AGENCIES

SUMMARY OF PUBLIC AGENCIES LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
 UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT
 LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS																
1	SYSTEM LOADS	7317	7317	7130	7627	8710	9389	9819	9251	8631	8039	8039	7518	7255	7358	8170
2	EXPORTS	1/ 107	107	123	105	64	52	43	47	55	73	73	74	121	123	82
3	CONTRACTS OUT	2/ 168	167	70	101	50	51	52	50	51	53	53	56	65	65	69
4	TOTAL LOADS	7592	7591	7323	7833	8824	9492	9914	9348	8737	8165	8165	7648	7441	7546	8322
RESOURCES																
5	REGULATED HYDRO	1517	1272	1432	1725	1810	1906	1988	1775	1642	1666	1951	1993	1812	1601	1741
6	INDEPENDENT HYDRO	74	75	68	75	66	74	87	168	102	114	114	96	95	77	91
7	MAY WATER BUDGET	3/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	CAN. ENT. RETURN (CSPE)	4/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	CAN. ENT. RETURN (CANADA)	5/ -37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37
10	RESTORATION	6/ 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11	TOTAL HYDRO	1556	1312	1465	1765	1841	1945	2040	1908	1709	1745	2030	2054	1872	1643	1797
12	SMALL THERMAL & MISC	7/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	COMBUSTION TURBINES	8/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	CSPE PURCHASE	9/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	RENEWABLES	10/ 4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
16	COGENERATION	11/ 53	53	42	42	42	35	42	42	42	53	53	53	53	46	45
17	IMPORTS	12/ 18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
18	CONTRACTS IN	13/ 90	90	40	90	50	51	51	50	40	40	40	40	40	40	52
19	LARGE THERMAL	14/ 346	346	346	346	346	346	346	346	346	346	346	221	310	346	333
20	NON-UTILITY GENERATION	15/ 194	195	124	61	18	17	18	21	43	151	151	242	257	230	115
21	TOTAL RESOURCES	2261	2018	2034	2327	2336	2443	2559	2438	2244	2366	2651	2640	2572	2333	2381
22	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PUBLIC HYDRO MAINT	18/ 0	-4	-2	-5	-4	0	0	0	-2	-4	-4	-11	-3	0	-3
25	NET RESOURCES	2261	2014	2032	2322	2332	2443	2559	2438	2242	2362	2647	2629	2569	2333	2378
26	SURPLUS/DEFICIT	-5331	-5577	-5291	-5511	-6492	-7049	-7355	-6910	-6495	-5803	-5518	-5019	-4872	-5213	-5943
27	DEDICATED RESOURCES	19/ 1970	1727	1845	2109	2174	2288	2383	2280	2089	2157	2444	2416	2322	2084	2178
28	BPA PWR SLE CNTRCT PRCH	20/ 5401	5431	5249	5568	6453	7004	7293	6835	6336	5874	5861	5528	5308	5467	6027
29	SURPLUS/DEFICIT W/PURCHASE	70	-146	-42	57	-39	-45	-62	-75	-159	71	343	509	436	254	83
30	EXTREME WEATHER ADJ.	21/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SURPLUS/DEFICIT W/EXTRM WX	17	-200	-75	42	-39	-45	-62	-75	-163	36	308	460	381	195	58
32	POSSIBLE OBLIG ON BPA	22/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	SURPLUS/DEFICIT AFTR BPA OB	17	-200	-75	42	-39	-45	-62	-75	-163	36	308	460	381	195	58

PUBLIC AGENCIES FOOTNOTES

Total Public Agencies Table 3

1. Public agencies' exports includes the City of Idaho Falls' contract with Utah Power Company for Gem State Hydro; Seattle City Light's seasonal power exchange deliveries to Northern California Public Agencies; and Tacoma Generating Utilities' power sale to the Western Area Power Administration (WAPA).
2. Public agencies' contracts out include Chelan County PUD's capacity deliveries to Douglas County PUD and Portland General Electric; Colockum's capacity deliveries to Chelan County PUD and Pacific Power and Light; Douglas County PUD' exchange energy returned to Chelan County PUD; Grant County PUD's power sales to Pacific Power and Light; Northern Wasco PUD's sale to Puget Sound Power and Light; other small and non-generating public agencies power sales to Puget Sound Power and Light; Pend Oreille County PUD's power sale to Seattle City Light; Seattle City Light's seasonal power exchange deliveries to Idaho Power Company and Tacoma Generating Utilities and power sale to Pend Oreille County PUD; Snohomish County PUD's power sale to Puget Sound Power and Light; and Tacoma Generating Utilities' seasonal power exchange deliveries to Seattle City Light.
3. May Water Budget is the energy loss due to the overgeneration which may be unusable as a firm resource on the Public Utilities systems. This is a new adjustment due to the use of a 42-month critical period average hydro number rather than the 39-month critical period average hydro number used in last years study. The overgeneration on the Public Utility systems was deemed to be usable during the month of May. Therefore, the loss due to the overgeneration was set to zero for the Public Utilities.
4. Canadian Entitlement Return non-Federal to the Columbia River Power Exchange (CSPE) reflects the public agencies' obligation of Canadian Entitlement allocation to CSPE, which expires April 1, 2003.
5. Canadian Entitlement Return non-Federal to Canada reflects the public agencies' obligation of Canadian Entitlement allocation to Canada, which begins in April 1, 1998.
6. Restoration is the obligation of the public agencies that gained generation from the addition of Canadian storage to utilities that lost generation from it, according to the terms of the Pacific Northwest Coordination Agreement.
7. Public agencies' small thermal and miscellaneous resources include the City of Idaho Falls' Diesel plant; Idaho's Power Company's Energy Management Systems; Tacoma Generating Utilities' Steam Plant No. 2; and Seattle City Light's Boundary.

8. There are no regional public agency combustion turbines.
9. Columbia Storage Power Exchange (CSPE) is the sale to Northwest utilities through April 1, 2003 of the Canadian share of downstream benefits under the Treaty with Canada.
10. Public agencies' renewable resources include Emerald PUD's Short Mountain.
11. Public agencies' cogeneration includes Eugene Water and Electric Board's Weyerhaeuser WEYCO Energy Center; and Snohomish County PUD's Scott Paper.
12. Public agencies' imports include power deliveries to Seattle City Light from BC Hydro for Ross replacement, and seasonal power exchange deliveries from Northern California Public Agencies.
13. Public agencies' contracts include Chelan County PUD capacity receipts from Colockum, and exchange energy from Douglas County PUD and Portland General Electric; Clark County PUD and other small and non-generating public agencies power receipts from BPA for Packwood Lake; Colockum exchange energy from Pacific Power and Light; Douglas County PUD capacity receipts from Chelan County PUD; Oregon Trail Cooperative's replacement power sale from Idaho Power Company; Pend Oreille County PUD power sales receipts from Seattle City Light and Washington Water Power; Seattle City Light's power sale receipts from Pend Oreille County PUD and seasonal power exchanges from Idaho Power Company and Tacoma Generating Utilities; and Tacoma Generating Utilities' seasonal energy exchange from Seattle City Light.
14. Public agencies' large thermal includes Seattle City Light, Snohomish County PUD's, and Tacoma Generating Utilities share of Centralia, and Grays Harbor's share of Centralia starting OY 1997-98.
15. Public agencies' Non-Utility Gen resources from independent power producers and qualified facilities under the Utilities Regulatory Act (PURPA). These resources are summarized for the following public agencies: Chelan County PUD, Cowlitz County PUD, Douglas County PUD, Eugene Water and Electric Board, Grant County PUD, Pend Oreille County PUD, Seattle City Light, Small and Non-Generating Utilities, Snohomish County PUD, and Tacoma Generating Utilities.
16. Hydro, small thermal and miscellaneous resources, and combustion turbine reserve requirements are 5 percent of the public agencies' share of capacity from these resources.
17. Large thermal reserve requirements are 15 percent of the public agencies' share of Pacific Northwest thermal resources.
18. Hydro maintenance is the sum of all public agency hydro project maintenance based on the mean of the 1983-84 through 1988-89 schedules submitted to the Northwest Power Pool.
19. Dedicated resources are the actual resources used in the operating year prior to the signing of the Pacific Northwest Electric Power Planning and Conservation Act (Public Law 96-501) and other resources the utility dedicates to serve its load.

20. Purchases from BPA include public agencies' firm power purchases under their power sales contracts and BPA's partnership program. This requirement is defined as the sum of the differences between each utility's firm load and its dedicated resources.
21. Extreme Weather adjustment for all public utilities for severe cold weather in the months of November through February.
22. Possible extreme weather adjustment obligation on BPA for those public utilities having the right to place the obligation on BPA.

TABLE 4: TOTAL PRIVATE UTILITIES

SUMMARY OF PRIVATE UTILITIES LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS																
1	SYSTEM LOADS	9150	9150	8842	9231	10255	11192	11696	11050	10286	9515	9515	9252	9449	9498	9951
2	EXPORTS	1/ 1150	1150	1090	722	709	731	735	671	687	677	677	720	1121	1167	848
3	CONTRACTS OUT	2/ 507	507	721	1008	1051	1073	1038	1023	935	807	590	436	584	500	798
4	TOTAL LOADS	10807	10807	10653	10961	12015	12996	13469	12744	11908	10999	10782	10408	11154	11165	11598
RESOURCES																
5	REGULATED HYDRO	2424	2277	2575	2544	2721	3175	3320	3179	2980	2949	3115	3472	2623	2482	2871
6	INDEPENDENT HYDRO	547	539	530	505	549	674	580	678	630	657	667	631	581	543	592
7	MAY WATER BUDGET	3/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	CAN. ENT. RETURN (CSPE)	4/ -35	-35	-35	-35	-35	-35	-35	-35	-35	-33	-33	-33	-33	-33	-34
9	CAN. ENT. RETURN (CANADA)	5/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	RESTORATION	6/ 30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
11	TOTAL HYDRO	2966	2811	3100	3044	3265	3844	3895	3852	3605	3603	3779	4100	3201	3022	3459
12	SMALL THERMAL & MISC	7/ 51	49	54	51	57	51	47	48	41	53	63	53	1	50	47
13	COMBUSTION TURBINES	8/ 423	423	428	435	591	589	592	604	442	436	436	432	428	423	485
14	CSPE PURCHASE	9/ 140	140	140	140	140	140	140	140	140	134	134	134	134	134	138
15	RENEWABLES	10/ 44	44	44	44	44	44	44	44	44	44	44	44	0	44	40
16	COGENERATION	11/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	IMPORTS	12/ 1503	1503	1150	1251	1655	1755	1730	1767	1435	1246	1246	1443	1572	1708	1518
18	CONTRACTS IN	13/ 929	929	890	1158	1496	1560	1500	1403	1186	792	792	576	596	904	1082
19	LARGE THERMAL	14/ 3655	3648	3664	3602	3546	3632	3618	3621	3509	3236	2655	2273	3253	3652	3414
20	NON-UTILITY GENERATION	15/ 918	917	910	881	880	864	853	879	890	920	923	546	859	956	863
21	TOTAL RESOURCES	10629	10464	10380	10606	11674	12479	12419	12358	11292	10464	10072	9601	10044	10893	11047
22	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PRIVATE HYDRO MAINT	18/ -31	-22	-7	-4	0	0	0	0	-3	-4	-4	-9	-11	-50	-10
25	NET RESOURCES	10598	10442	10373	10602	11674	12479	12419	12358	11289	10460	10068	9593	10033	10843	11037
26	SURPLUS/DEFICIT	-209	-365	-280	-359	-341	-517	-1050	-386	-619	-539	-714	-815	-1121	-322	-560
27	DEDICATED RESOURCES	19/ 6701	6540	6663	6692	7214	7876	7868	7868	7270	6752	6927	7123	6675	6773	7123
28	BPA PWR SLE CNTRCT PRCH	20/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	SURPLUS/DEFICIT W/PURCHASE	-209	-365	-280	-359	-341	-517	-1050	-386	-619	-539	-714	-815	-1121	-322	-560
30	EXTREME WEATHER ADJ.	21/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SURPLUS/DEFICIT W/EXTRM WX	-229	-385	-303	-380	-363	-541	-1071	-407	-639	-636	-754	-799	-1142	-342	-582

TABLE 4: TOTAL PRIVATE UTILITIES

SUMMARY OF PRIVATE UTILITIES LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR		1998-99 OPERATING YEAR															
ENERGY IN AVERAGE MEGAWATTS		AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL		
		1-15	16-31								1-15	16-30					
LOADS																	
1	SYSTEM LOADS	9689	9689	9369	9789	10888	11873	12371	11696	10877	10042	10042	9745	9937	9992	10522	
2	EXPORTS	1/ 1124	1124	1066	696	685	707	716	652	666	649	649	698	1055	1103	818	
3	CONTRACTS OUT	2/ 334	334	596	596	632	650	652	653	592	515	515	333	592	333	540	
4	TOTAL LOADS	11147	11147	11031	11081	12205	13230	13739	13001	12135	11206	11206	10776	11584	11428	11880	
RESOURCES																	
5	REGULATED HYDRO	2350	2197	2503	2485	2724	3170	3337	3169	2997	2930	3013	3604	2976	2526	2895	
6	INDEPENDENT HYDRO	541	540	521	502	549	683	593	690	639	655	666	634	586	542	595	
7	MAY WATER BUDGET	3/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	CAN. ENT. RETURN (CSPE)	4/ -27	-27	-27	-27	-27	-27	-27	-27	-27	-15	-15	-15	-15	-15	-23	
9	CAN. ENT. RETURN (CANADA)	5/ -6	-6	-6	-6	-6	-6	-6	-6	-6	-43	-43	-43	-43	-43	-18	
10	RESTORATION	6/ 30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
11	TOTAL HYDRO	2888	2734	3021	2984	3270	3850	3927	3856	3633	3557	3651	4210	3534	3040	3478	
12	SMALL THERMAL & MISC	7/ 47	51	45	48	57	59	60	59	50	51	62	57	2	50	49	
13	COMBUSTION TURBINES	8/ 602	602	602	602	750	745	745	760	602	355	355	355	452	452	585	
14	CSPE PURCHASE	9/ 109	109	109	109	109	109	109	109	109	51	51	51	51	51	90	
15	RENEWABLES	10/ 43	43	43	43	43	43	43	43	43	43	43	43	0	43	39	
16	COGENERATION	11/ 240	240	240	240	240	240	240	240	240	0	0	240	240	240	220	
17	IMPORTS	12/ 1353	1353	949	981	1266	1599	1575	1595	1139	1109	1109	1305	1431	1570	1323	
18	CONTRACTS IN	13/ 370	369	352	549	1076	1134	1108	1062	795	542	542	295	323	438	670	
19	LARGE THERMAL	14/ 3600	3613	3595	3561	3495	3618	3620	3618	3473	3165	2586	2280	3241	3598	3382	
20	NON-UTILITY GENERATION	15/ 978	980	973	954	961	948	934	962	969	991	997	616	922	994	934	
21	TOTAL RESOURCES	10230	10094	9929	10071	11267	12345	12361	12304	11053	9864	9396	9452	10196	10476	10771	
22	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	PRIVATE HYDRO MAINT	18/ -31	-22	-7	-4	0	0	0	0	-3	-4	-4	-9	-11	-50	-10	
25	NET RESOURCES	10200	10072	9922	10067	11267	12345	12361	12304	11049	9861	9392	9443	10185	10427	10761	
26	SURPLUS/DEFICIT	-947	-1075	-1109	-1014	-938	-885	-1378	-697	-1086	-1345	-1814	-1333	-1399	-1001	-1119	
27	DEDICATED RESOURCES	19/ 6509	6370	6275	6218	6826	7753	7813	7795	7032	6456	6556	7161	6960	6701	6957	
28	BPA PWR SLE CNTRCT PRCH	20/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	SURPLUS/DEFICIT W/PURCHASE	-947	-1075	-1109	-1014	-938	-885	-1378	-697	-1086	-1345	-1814	-1333	-1399	-1001	-1119	
30	EXTREME WEATHER ADJ.	21/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	SURPLUS/DEFICIT W/EXTRM WX	-968	-1096	-1131	-1036	-959	-907	-1400	-719	-1106	-1443	-1855	-1318	-1420	-1022	-1142	

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TABLE 4: TOTAL PRIVATE UTILITIES

SUMMARY OF PRIVATE UTILITIES LOADS AND RESOURCES IN THE PACIFIC NORTHWEST REGION
UNDER THE PACIFIC NORTHWEST ELECTRIC POWER PLANNING AND CONSERVATION ACT

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR		M E D I U M L O A D S												1993 WHITEBOOK: 12/19/93			
ENERGY IN AVERAGE MEGAWATTS		2003- 4 OPERATING YEAR												RUN DATE: 01/19/94			
		AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL		
		1-15	16-31								1-15	16-30					
LOADS																	
1	SYSTEM LOADS	10316	10316	9993	10450	11620	12684	13184	12423	11596	10703	10703	10373	10568	10627	11211	
2	EXPORTS	1/ 1075	1075	1016	648	635	650	596	541	562	560	560	604	1003	1043	744	
3	CONTRACTS OUT	2/ 351	352	610	611	349	350	350	349	339	262	262	80	339	231	352	
4	TOTAL LOADS	11742	11743	11619	11709	12604	13684	14130	13313	12497	11525	11525	11057	11910	11901	12308	
RESOURCES																	
5	REGULATED HYDRO	2298	2151	2463	2445	2663	3112	3251	3118	2939	2882	2965	3501	2917	2471	2836	
6	INDEPENDENT HYDRO	538	536	517	497	545	678	590	686	635	650	662	630	583	539	591	
7	MAY WATER BUDGET	3/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	CAN. ENT. RETURN (CSPE)	4/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	CAN. ENT. RETURN (CANADA)	5/ -72	-72	-72	-72	-72	-72	-72	-72	-72	-72	-72	-72	-72	-72	-72	
10	RESTORATION	6/ 30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
11	TOTAL HYDRO	2794	2645	2938	2900	3166	3748	3799	3762	3532	3490	3585	4089	3458	2968	3385	
12	SMALL THERMAL & MISC	7/ 44	48	42	44	53	55	57	56	47	48	58	53	2	47	46	
13	COMBUSTION TURBINES	8/ 602	602	602	602	750	745	745	760	602	355	355	355	452	452	585	
14	CSPE PURCHASE	9/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	RENEWABLES	10/ 44	44	44	44	44	44	44	44	44	44	44	44	0	44	40	
16	COGENERATION	11/ 240	240	240	240	240	240	240	240	240	0	0	240	240	240	220	
17	IMPORTS	12/ 1287	1287	935	1006	1448	1538	1485	1547	1212	1018	1018	1226	1358	1501	1297	
18	CONTRACTS IN	13/ 291	290	272	319	874	930	904	859	443	342	342	96	123	139	466	
19	LARGE THERMAL	14/ 3588	3600	3582	3555	3477	3606	3611	3608	3465	3156	2577	2191	3316	3591	3372	
20	NON-UTILITY GENERATION	15/ 917	919	911	893	899	887	873	901	908	929	936	579	885	930	876	
21	TOTAL RESOURCES	9807	9675	9566	9603	10951	11793	11758	11777	10493	9382	8915	8873	9834	9912	10288	
22	HYD, SM THRM & MISC RES	16/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	LARGE THERMAL RESERVES	17/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	PRIVATE HYDRO MAINT	18/ -31	-22	-7	-4	0	0	0	0	-3	-4	-4	-9	-11	-50	-10	
25	NET RESOURCES	9777	9653	9559	9600	10951	11793	11758	11777	10490	9378	8911	8865	9823	9862	10278	
26	SURPLUS/DEFICIT	-1965	-2090	-2060	-2109	-1653	-1891	-2372	-1536	-2007	-2147	-2614	-2192	-2087	-2039	-2030	
27	DEDICATED RESOURCES	19/ 6279	6145	6105	6093	6823	7513	7599	7641	6994	6334	6436	6917	6882	6555	6810	
28	BPA PWR SLE CNTRCT PRCH	20/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	SURPLUS/DEFICIT W/PURCHASE	-1965	-2090	-2060	-2109	-1653	-1891	-2372	-1536	-2007	-2147	-2614	-2192	-2087	-2039	-2030	
30	EXTREME WEATHER ADJ.	21/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	SURPLUS/DEFICIT W/EXTRM WX	-1986	-2111	-2081	-2131	-1674	-1912	-2394	-1557	-2028	-2246	-2654	-2176	-2108	-2059	-2052	

See Private Utilities Footnotes on page TA-2-42

SECTION VIII: Monthly Energy Analysis
INDIVIDUAL UTILITY LOAD AND RESOURCE BALANCES
(FOR OYs 1994-95, 1998-99, AND 2003-04)

SECTION VIII - INDIVIDUAL UTILITY LOAD AND RESOURCE BALANCES (FOR OYS 1993-94, 1998-99, AND 2003-04)

Monthly Energy Analysis

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TABLE U-1

IDAHO POWER COMPANY
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	1757	1757	1495	1444	1538	1677	1734	1673	1479	1435	1435	1659	1901	1981	1648
2 EXPORTS	114	114	109	105	103	119	133	122	115	101	101	106	65	73	105
3 CONTRACTS OUT	7	7	10	10	36	53	56	56	6	6	6	6	6	6	21
4 TOTAL LOADS	1878	1878	1614	1559	1677	1849	1923	1851	1600	1542	1542	1771	1972	2060	1775
RESOURCES															
5 REGULATED HYDRO	272	284	577	554	412	631	694	519	518	501	504	703	424	470	524
6 INDEPENDENT HYDRO	282	283	285	241	291	307	257	240	264	258	258	249	268	274	268
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	554	567	862	795	703	938	951	759	782	759	762	952	692	744	792
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	54	54	-16	0	0	0	0	0	0	0	0	0	0	100	14
19 LARGE THERMAL	890	890	890	849	775	890	890	890	753	624	609	633	838	881	816
20 NON-UTILITY GENERATION	181	181	164	143	136	117	121	128	141	166	166	189	211	191	157
21 TOTAL RESOURCES	1680	1693	1933	1788	1615	1946	1963	1778	1677	1550	1538	1775	1742	1917	1780
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	1680	1693	1933	1788	1615	1946	1963	1778	1677	1550	1538	1775	1742	1917	1780
26 SURPLUS/DEFICIT	-198	-185	319	229	-62	97	40	-73	77	8	-4	4	-230	-143	6
27 DEDICATED RESOURCES	1251	1264	1544	1419	1247	1570	1570	1396	1344	1284	1287	1495	1437	1493	1421
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-198	-185	319	229	-62	97	40	-73	77	8	-4	4	-230	-143	6
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-198	-185	319	229	-62	97	40	-73	77	8	-4	4	-230	-143	6

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TABLE U-1

IDAHO POWER COMPANY
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	1868	1868	1596	1553	1658	1801	1859	1740	1583	1526	1526	1750	1996	2084	1751
2 EXPORTS	59	59	54	51	48	55	6	6	6	6	6	6	6	6	26
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	1927	1927	1650	1604	1706	1856	1865	1746	1589	1532	1532	1756	2002	2090	1777
RESOURCES															
5 REGULATED HYDRO	272	284	577	554	412	631	694	519	518	501	504	703	424	470	524
6 INDEPENDENT HYDRO	282	283	285	241	291	307	257	240	264	258	258	249	268	274	268
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	554	567	862	795	703	938	951	759	782	759	762	952	692	744	792
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	54	54	16	0	0	0	0	0	0	0	0	0	0	0	6
19 LARGE THERMAL	890	890	890	855	769	890	890	890	758	624	609	633	833	881	816
20 NON-UTILITY GENERATION	181	181	164	143	136	117	121	128	141	166	166	190	211	191	157
21 TOTAL RESOURCES	1680	1693	1933	1794	1609	1946	1963	1778	1682	1550	1538	1776	1737	1817	1772
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	1680	1693	1933	1794	1609	1946	1963	1778	1682	1550	1538	1776	1737	1817	1772
26 SURPLUS/DEFICIT	-247	-234	283	190	-97	90	98	32	93	18	6	20	-265	-273	-5
27 DEDICATED RESOURCES	1313	1326	1609	1489	1307	1637	1703	1518	1464	1385	1388	1602	1497	1566	1508
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-247	-234	283	190	-97	90	98	32	93	18	6	20	-265	-273	-5
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-247	-234	283	190	-97	90	98	32	93	18	6	20	-265	-273	-5

TABLE U-2

MONTANA POWER COMPANY
REGIONAL LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	329	329	315	326	353	373	378	361	333	304	304	312	320	346	337
2 EXPORTS	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
3 CONTRACTS OUT	191	191	250	269	250	230	196	196	196	119	119	116	116	191	193
4 TOTAL LOADS	611	611	656	686	694	694	665	648	620	514	514	519	527	628	622
RESOURCES															
5 REGULATED HYDRO	41	52	72	65	52	62	54	57	53	73	99	90	76	61	65
6 INDEPENDENT HYDRO	54	52	56	53	52	46	42	43	43	55	65	55	47	52	50
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11 TOTAL HYDRO	101	110	134	124	110	114	102	106	102	134	170	151	129	119	121
12 SMALL THERMAL & MISC	50	48	53	50	50	44	40	41	40	52	62	52	0	49	44
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	102	102	102	154	179	204	204	179	154	87	87	49	49	87	129
19 LARGE THERMAL	366	359	375	365	363	344	330	332	333	322	216	234	342	363	334
20 NON-UTILITY GENERATION	13	13	15	14	14	12	10	11	11	16	19	16	28	31	16
21 TOTAL RESOURCES	632	632	679	707	716	718	686	669	640	611	554	502	548	649	644
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-1	-1	0	0	0	0	0	0	0	0	0	0	0	-1	0
25 NET RESOURCES	631	631	679	707	716	718	686	669	640	611	554	502	548	648	644
26 SURPLUS/DEFICIT	20	20	23	21	22	24	21	21	20	97	40	-17	21	20	22
27 DEDICATED RESOURCES	280	282	397	429	439	447	419	402	372	331	380	297	320	298	371
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	20	20	23	21	22	24	21	21	20	97	40	-17	21	20	22
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	20	20	23	21	22	24	21	21	20	97	40	-17	21	20	22

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TABLE U-2

MONTANA POWER COMPANY
REGIONAL LOADS AND RESOURCES

M E D I U M L O A D S

1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	335	335	318	331	358	375	378	361	331	300	300	310	318	350	339
2 EXPORTS	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
3 CONTRACTS OUT	106	106	106	106	106	106	106	106	106	29	29	106	106	106	100
4 TOTAL LOADS	532	532	515	528	555	572	575	558	528	420	420	507	515	547	529
RESOURCES															
5 REGULATED HYDRO	74	51	66	64	77	80	79	66	51	61	79	95	86	74	73
6 INDEPENDENT HYDRO	48	53	47	50	52	55	55	55	52	53	64	58	52	51	53
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11 TOTAL HYDRO	128	110	119	120	135	141	140	127	109	120	149	159	144	131	132
12 SMALL THERMAL & MISC	46	50	44	47	50	52	53	52	49	50	61	56	1	49	46
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	351	364	346	354	361	370	372	370	361	315	212	241	360	358	343
20 NON-UTILITY GENERATION	28	30	28	29	30	31	32	31	30	32	39	36	31	30	31
21 TOTAL RESOURCES	553	554	537	550	576	594	597	580	549	517	461	492	536	568	552
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-1	-1	0	0	0	0	0	0	0	0	0	0	0	-1	0
25 NET RESOURCES	553	553	537	550	576	594	597	580	549	517	461	492	536	568	552
26 SURPLUS/DEFICIT	21	21	22	22	21	22	22	22	21	97	41	-15	21	21	22
27 DEDICATED RESOURCES	279	276	265	275	299	314	317	301	274	241	290	283	308	292	289
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	21	21	22	22	21	22	22	22	21	97	41	-15	21	21	22
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	21	21	22	22	21	22	22	22	21	97	41	-15	21	21	22

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TABLE U-2

MONTANA POWER COMPANY
REGIONAL LOADS AND RESOURCES

M E D I U M L O A D S
2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	338	338	319	332	359	376	385	368	336	305	305	316	325	360	343
2 EXPORTS	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
3 CONTRACTS OUT	77	77	77	77	77	77	77	77	77	0	0	77	77	77	71
4 TOTAL LOADS	506	506	487	500	527	544	553	536	504	396	396	484	493	528	505
RESOURCES															
5 REGULATED HYDRO	68	47	60	59	71	75	75	63	48	57	74	89	80	70	68
6 INDEPENDENT HYDRO	45	49	43	45	48	50	52	51	48	48	60	54	49	48	49
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11 TOTAL HYDRO	119	102	109	110	125	131	133	120	102	111	140	149	135	124	123
12 SMALL THERMAL & MISC	43	47	41	43	46	48	50	49	46	47	57	52	1	46	43
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	339	351	333	341	349	357	362	359	349	307	203	233	349	350	332
20 NON-UTILITY GENERATION	26	28	25	27	28	29	30	29	28	30	36	33	29	29	29
21 TOTAL RESOURCES	527	528	508	521	548	565	575	557	525	495	436	467	514	549	527
22 HYD. SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-1	-1	0	0	0	0	0	0	0	0	0	0	0	-1	0
25 NET RESOURCES	527	527	508	521	548	565	575	557	525	495	436	467	514	548	527
26 SURPLUS/DEFICIT	21	21	21	21	21	21	22	21	21	79	40	-17	21	20	22
27 DEDICATED RESOURCES	286	284	268	280	304	318	327	310	282	251	298	292	315	305	297
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	21	21	21	21	21	21	22	21	21	99	40	-17	21	20	22
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	21	21	21	21	21	21	22	21	21	99	40	-17	21	20	22

TABLE U-3

PACIFIC POWER & LIGHT LOADS AND RESOURCES														
M E D I U M L O A D S														
1993 WHITEBOOK: 12/19/93 RUN DATE: 01/19/94														
1994-95 OPERATING YEAR														
1993 WATER YEAR ENERGY IN AVERAGE MEGAWATTS														
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
LOADS														
1 SYSTEM LOADS	2136	2136	2103	2126	2347	2560	2717	2569	2361	2256	2256	2119	2113	2110
2 EXPORTS	475	475	423	382	372	378	374	319	342	337	337	375	455	495
3 CONTRACTS OUT	143	143	143	143	143	143	143	143	143	143	143	143	143	143
4 TOTAL LOADS	2754	2754	2669	2651	2862	3081	3234	3031	2846	2736	2736	2637	2711	2748
2293														
394														
143														
2830														
RESOURCES														
5 REGULATED HYDRO	284	274	313	303	402	431	461	537	458	385	332	287	284	258
6 INDEPENDENT HYDRO	152	150	145	169	170	239	218	298	243	247	247	234	161	154
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	30	30	30	30	30	30	30	30	30	30	30	30	30	30
11 TOTAL HYDRO	461	449	483	497	597	695	704	860	726	657	604	546	490	437
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	28	28	28	28	28	28	28	28	28	27	27	27	27	27
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	1083	1083	791	895	1021	1046	1054	1078	1062	946	946	1068	1085	1130
18 CONTRACTS IN	171	171	197	261	314	369	344	298	270	208	208	122	141	157
19 LARGE THERMAL	717	717	717	716	716	716	716	717	716	718	638	489	613	717
20 NON-UTILITY GENERATION	51	51	49	48	51	52	34	55	50	54	54	64	53	52
21 TOTAL RESOURCES	2511	2499	2265	2445	2727	2906	2880	3036	2852	2610	2477	2316	2409	2520
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-7	-3	-1	0	0	0	0	0	0	0	0	-1	-7	-18
25 NET RESOURCES	2504	2496	2264	2445	2727	2906	2880	3036	2852	2610	2477	2315	2402	2502
26 SURPLUS/DEFICIT	-250	-258	-405	-206	-135	-175	-354	5	6	-126	-259	-322	-309	-246
27 DEDICATED RESOURCES	2422	2411	2151	2267	2497	2620	2619	2821	2665	2448	2315	2240	2316	2410
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-250	-258	-405	-206	-135	-175	-354	5	6	-126	-259	-322	-309	-246
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-250	-258	-405	-206	-135	-175	-354	5	6	-126	-259	-322	-309	-246

TABLE U-3

PACIFIC POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR												1993 WHITEBOOK				
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12/19/93	01/19/94	
LOADS																	
1 SYSTEM LOADS	2324	2324	2291	2314	2556	2793	2951	2796	2571	2455	2455	2303	2297	2293	2495		
2 EXPORTS	449	449	397	356	346	353	348	294	316	312	312	349	429	470	368		
3 CONTRACTS OUT	143	143	230	230	230	230	230	230	230	230	230	143	230	143	208		
4 TOTAL LOADS	2916	2916	2918	2900	3132	3376	3529	3320	3117	2997	2997	2795	2956	2906	3072		
RESOURCES																	
5 REGULATED HYDRO	265	266	295	300	394	434	466	551	472	393	329	328	339	259	372		
6 INDEPENDENT HYDRO	152	150	145	169	170	239	218	298	243	247	247	234	181	154	204		
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
8 CAN. ENT. RETURN (CSPE)	-5	-5	-5	-5	-5	-5	-5	-5	-5	-4	-4	-4	-4	-4	-5		
9 CAN. ENT. RETURN (CANADA)	-2	-2	-2	-2	-2	-2	-2	-2	-2	-7	-7	-7	-7	-7	-4		
10 RESTORATION	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
11 TOTAL HYDRO	440	439	463	492	587	696	707	872	738	659	595	581	539	432	598		
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14 CSPE PURCHASE	22	22	22	22	22	22	22	22	22	10	10	10	10	10	18		
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
17 IMPORTS	914	914	568	600	603	857	867	871	735	780	780	903	920	971	799		
18 CONTRACTS IN	29	29	55	119	329	384	359	313	207	182	182	15	35	51	173		
19 LARGE THERMAL	718	718	718	717	718	717	717	717	718	718	639	510	596	718	687		
20 NON-UTILITY GENERATION	51	51	50	48	51	52	34	55	50	55	54	64	53	52	51		
21 TOTAL RESOURCES	2174	2173	1876	1998	2310	2728	2706	2850	2470	2404	2260	2083	2153	2234	2326		
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
24 HYDRO MAINTENANCE	-7	-3	-1	0	0	0	0	0	0	0	0	-1	-7	-18	-3		
25 NET RESOURCES	2167	2170	1875	1998	2310	2728	2706	2850	2470	2404	2260	2082	2146	2216	2323		
26 SURPLUS/DEFICIT	-749	-746	-1043	-902	-822	-648	-823	-470	-647	-593	-737	-713	-810	-690	-748		
27 DEDICATED RESOURCES	2146	2145	1822	1880	2139	2502	2505	2696	2343	2302	2158	2068	2119	2185	2220		
28 BPA PMR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
29 SURPLUS/DEFICIT W/PURCHASE	-749	-746	-1043	-902	-822	-648	-823	-470	-647	-593	-737	-713	-810	-690	-748		
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
31 SURPLUS/DEFICIT W/EXTRM WX	-749	-746	-1043	-902	-822	-648	-823	-470	-647	-593	-737	-713	-810	-690	-748		

TABLE U-3

PACIFIC POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	2526	2526	2497	2520	2772	3023	3179	3020	2777	2654	2654	2490	2483	2480	2702
2 EXPORTS	455	455	402	362	351	360	355	299	321	318	318	355	436	477	374
3 CONTRACTS OUT	120	120	207	207	87	87	87	87	87	87	87	0	87	0	95
4 TOTAL LOADS	3101	3101	3106	3089	3210	3470	3621	3406	3185	3059	3059	2845	3006	2957	3171
RESOURCES															
5 REGULATED HYDRO	265	266	295	300	394	434	466	551	472	393	329	328	339	259	372
6 INDEPENDENT HYDRO	152	150	145	169	170	239	218	298	243	247	247	234	181	154	204
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
10 RESTORATION	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
11 TOTAL HYDRO	436	435	459	488	583	692	703	868	734	659	595	581	539	432	595
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	809	809	512	582	739	746	740	781	773	658	658	786	802	854	732
18 CONTRACTS IN	29	29	55	119	328	384	358	313	207	182	182	16	35	51	173
19 LARGE THERMAL	718	718	718	718	718	718	718	718	717	717	639	456	657	719	688
20 NON-UTILITY GENERATION	51	51	50	48	51	52	34	55	50	54	55	64	53	52	51
21 TOTAL RESOURCES	2043	2042	1794	1955	2419	2592	2553	2735	2481	2270	2129	1903	2086	2108	2239
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-7	-3	-1	0	0	0	0	0	0	0	0	-1	-7	-18	-3
25 NET RESOURCES	2036	2039	1793	1955	2419	2592	2553	2735	2481	2270	2129	1902	2079	2090	2236
26 SURPLUS/DEFICIT	-1065	-1062	-1313	-1134	-791	-878	-1068	-671	-704	-789	-930	-943	-927	-867	-935
27 DEDICATED RESOURCES	2015	2014	1740	1837	2248	2366	2352	2581	2354	2168	2027	1887	2052	2059	2132
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-1065	-1062	-1313	-1134	-791	-878	-1068	-671	-704	-789	-930	-943	-927	-867	-935
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-1065	-1062	-1313	-1134	-791	-878	-1068	-671	-704	-789	-930	-943	-927	-867	-935

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TABLE U-4

PORTLAND GENERAL ELECTRIC
LOADS AND RESOURCES

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	1843	1843	1860	1965	2185	2330	2382	2198	2133	1988	1988	1864	1823	1809	2032
2 EXPORTS	257	257	256	144	145	144	144	145	144	145	145	144	257	257	182
3 CONTRACTS OUT	3	3	75	75	86	86	85	86	75	75	75	3	75	3	61
4 TOTAL LOADS	2103	2103	2191	2184	2416	2560	2611	2429	2352	2208	2208	2011	2155	2069	2274
RESOURCES															
5 REGULATED HYDRO	501	481	462	444	503	616	563	585	535	477	474	565	437	458	511
6 INDEPENDENT HYDRO	18	18	15	15	15	29	27	29	28	28	28	28	21	19	23
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-10	-10	-10	-10	-10	-10	-10	-10	-10	-8	-8	-8	-8	-8	-9
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
11 TOTAL HYDRO	505	485	463	445	504	631	576	600	549	493	490	581	446	465	521
12 SMALL THERMAL & MISC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13 COMBUSTION TURBINES	368	368	373	380	388	390	393	391	387	381	381	377	373	368	381
14 CSPE PURCHASE	49	49	49	49	49	49	49	49	49	47	47	47	47	47	48
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	104	104	104	104	0	0	0	0	0	0	35
18 CONTRACTS IN	88	88	81	80	209	209	209	185	120	120	120	56	64	63	124
19 LARGE THERMAL	580	580	580	580	580	580	580	580	580	580	422	199	442	580	530
20 NON-UTILITY GENERATION	19	19	20	23	31	34	33	32	31	32	32	30	25	20	27
21 TOTAL RESOURCES	1610	1590	1567	1558	1866	1998	1945	1942	1717	1654	1493	1291	1398	1544	1667
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-9	-11	-5	-4	0	0	0	0	0	0	0	-2	0	-2	-2
25 NET RESOURCES	1601	1579	1562	1554	1866	1998	1945	1942	1717	1654	1493	1289	1398	1542	1665
26 SURPLUS/DEFICIT	-502	-524	-629	-630	-550	-562	-666	-487	-635	-554	-715	-722	-757	-527	-609
27 DEDICATED RESOURCES	634	614	593	576	740	868	813	837	681	622	619	700	569	592	684
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-502	-524	-629	-630	-550	-562	-666	-487	-635	-554	-715	-722	-757	-527	-609
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-502	-524	-629	-630	-550	-562	-666	-487	-635	-554	-715	-722	-757	-527	-609

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TABLE U-4

PORTLAND GENERAL ELECTRIC
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1993 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	1811	1811	1826	1933	2154	2290	2346	2159	2094	1945	1945	1818	1773	1768	1993
2 EXPORTS	257	257	256	144	145	144	144	145	144	89	89	144	257	256	182
3 CONTRACTS OUT	3	3	89	89	99	100	99	100	89	89	89	3	89	3	71
4 TOTAL LOADS	2071	2071	2171	2166	2398	2534	2589	2404	2327	2179	2179	1965	2119	2027	2246
RESOURCES															
5 REGULATED HYDRO	467	470	455	436	488	614	565	595	549	487	469	605	515	457	519
6 INDEPENDENT HYDRO	18	18	15	15	15	29	27	29	28	28	28	28	21	19	23
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-7	-7	-7	-7	-7	-7	-7	-7	-7	-4	-4	-4	-4	-4	-6
9 CAN. ENT. RETURN (CANADA)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11	-11	-11	-11	-11	-4
10 RESTORATION	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
11 TOTAL HYDRO	473	476	458	439	491	631	580	612	565	496	478	614	517	457	527
12 SMALL THERMAL & MISC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13 COMBUSTION TURBINES	547	547	547	547	547	546	546	547	547	300	300	300	397	397	481
14 CSPE PURCHASE	38	38	38	38	38	38	38	38	38	18	18	18	18	18	31
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	240	240	240	240	240	240	240	240	240	0	0	240	240	240	220
17 IMPORTS	0	0	0	0	104	104	104	104	104	0	0	0	0	0	35
18 CONTRACTS IN	8	7	1	0	155	155	155	155	77	77	77	0	8	8	67
19 LARGE THERMAL	580	580	580	580	580	580	580	580	580	580	422	201	441	580	530
20 NON-UTILITY GENERATION	19	19	20	23	31	34	33	32	31	32	32	30	25	20	27
21 TOTAL RESOURCES	1906	1908	1885	1868	2187	2329	2277	2309	2079	1504	1328	1404	1647	1721	1919
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-9	-11	-5	-4	0	0	0	0	0	0	0	-2	0	-2	-2
25 NET RESOURCES	1897	1897	1880	1864	2187	2329	2277	2309	2079	1504	1328	1402	1647	1719	1917
26 SURPLUS/DEFICIT	-174	-174	-291	-302	-211	-205	-312	-95	-248	-675	-851	-563	-472	-308	-329
27 DEDICATED RESOURCES	859	862	844	825	981	1121	1070	1102	951	584	566	934	854	800	910
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-174	-174	-291	-302	-211	-205	-312	-95	-248	-675	-851	-563	-472	-308	-329
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-174	-174	-291	-302	-211	-205	-312	-95	-248	-675	-851	-563	-472	-308	-329

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TABLE U-4

PORTLAND GENERAL ELECTRIC
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS	1890	1890	1905	2013	2239	2402	2467	2271	2202	2053	2053	1922	1877	1874	2093
1 SYSTEM LOADS	257	257	256	144	145	144	144	145	144	145	145	144	257	256	182
2 EXPORTS	3	3	89	89	99	100	100	99	89	89	89	3	89	3	71
3 CONTRACTS OUT															
4 TOTAL LOADS	2150	2150	2250	2246	2483	2646	2711	2515	2435	2287	2287	2069	2223	2133	2346
RESOURCES	467	470	455	436	488	614	565	595	549	487	469	605	515	457	519
5 REGULATED HYDRO	18	18	15	15	15	29	27	29	28	28	28	28	21	19	23
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19
9 CAN. ENT. RETURN (CANADA)	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
10 RESTORATION															
11 TOTAL HYDRO	462	465	447	428	480	620	569	601	554	492	474	610	513	453	518
12 SMALL THERMAL & MISC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13 COMBUSTION TURBINES	547	547	547	547	547	546	546	547	547	300	300	300	397	397	481
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	240	240	240	240	240	240	240	240	240	0	0	240	240	240	220
17 IMPORTS	0	0	0	0	104	104	104	104	0	0	0	0	0	0	35
18 CONTRACTS IN	8	7	1	0	155	155	155	155	77	78	78	0	8	8	67
19 LARGE THERMAL	580	580	580	580	580	580	580	580	580	580	422	198	444	580	530
20 NON-UTILITY GENERATION	19	19	20	23	31	34	33	32	31	32	32	30	25	20	27
21 TOTAL RESOURCES	1857	1859	1836	1819	2138	2280	2228	2260	2030	1483	1307	1379	1628	1699	1879
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-9	-11	-5	-4	0	0	0	0	0	0	0	-2	0	-2	-2
25 NET RESOURCES	1848	1848	1831	1815	2138	2280	2228	2260	2030	1483	1307	1377	1628	1697	1877
26 SURPLUS/DEFICIT	-302	-302	-419	-431	-345	-366	-483	-255	-405	-804	-980	-692	-595	-436	-468
27 DEDICATED RESOURCES	810	813	795	776	932	1072	1021	1053	902	562	544	909	835	778	870
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-302	-302	-419	-431	-345	-366	-483	-255	-405	-804	-980	-692	-595	-436	-468
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-302	-302	-419	-431	-345	-366	-483	-255	-405	-804	-980	-692	-595	-436	-468

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TABLE U-5

PUGET SOUND POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	1980	1980	2019	2265	2642	2938	3154	2963	2808	2461	2461	2215	2122	1994	2463
2 EXPORTS	141	141	141	0	0	0	0	0	0	0	0	0	141	141	47
3 CONTRACTS OUT	0	0	43	151	151	151	151	151	151	151	43	0	43	0	91
4 TOTAL LOADS	2121	2121	2203	2416	2793	3089	3305	3114	2959	2612	2504	2215	2306	2135	2601
RESOURCES															
5 REGULATED HYDRO	978	859	751	771	951	969	1114	928	925	879	893	1066	743	849	906
6 INDEPENDENT HYDRO	41	36	29	27	21	52	36	67	51	68	68	64	63	44	47
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
11 TOTAL HYDRO	992	868	753	771	945	994	1123	968	949	920	934	1103	779	866	926
12 SMALL THERMAL & MISC	0	0	0	0	6	6	6	6	0	0	0	0	0	0	2
13 COMBUSTION TURBINES	0	0	0	0	148	144	144	158	0	0	0	0	0	0	49
14 CSPE PURCHASE	49	49	49	49	49	49	49	49	49	47	47	47	47	47	48
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	2	2	2	2	143	143	143	143	2	2	2	2	2	2	49
18 CONTRACTS IN	359	359	360	510	595	599	598	596	535	287	287	324	324	342	452
19 LARGE THERMAL	730	730	730	730	730	730	730	730	730	597	491	472	706	730	691
20 NON-UTILITY GENERATION	641	641	653	653	653	652	653	653	653	641	641	257	562	641	609
21 TOTAL RESOURCES	2773	2649	2547	2715	3269	3317	3446	3303	2918	2494	2402	2205	2420	2628	2827
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-13	-7	-1	0	0	0	0	0	-3	-4	-4	-5	-4	-12	-3
25 NET RESOURCES	2760	2642	2546	2715	3269	3317	3446	3303	2915	2490	2398	2200	2416	2616	2824
26 SURPLUS/DEFICIT	639	521	343	299	476	228	141	189	-44	-122	-106	-15	110	481	223
27 DEDICATED RESOURCES	1564	1440	1325	1343	1642	1687	1816	1673	1504	1320	1400	1490	1289	1419	1504
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	639	521	343	299	476	228	141	189	-44	-122	-106	-15	110	481	223
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	639	521	343	299	476	228	141	189	-44	-122	-106	-15	110	481	223

TABLE U-5

PUGET SOUND POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	2198	2198	2243	2516	2933	3263	3465	3255	3085	2704	2704	2434	2331	2190	2718
2 EXPORTS	141	141	141	0	0	0	0	0	0	0	0	0	141	141	47
3 CONTRACTS OUT	0	0	43	43	43	43	43	43	43	43	43	0	43	0	32
4 TOTAL LOADS	2339	2339	2427	2559	2976	3306	3508	3298	3128	2747	2747	2434	2515	2331	2797
RESOURCES															
5 REGULATED HYDRO	862	831	735	754	916	961	1120	949	954	902	885	1089	916	834	914
6 INDEPENDENT HYDRO	41	36	29	27	21	52	36	67	51	68	68	64	63	44	47
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-14	-14	-14	-14	-14	-14	-14	-14	-14	-7	-7	-7	-7	-7	-12
9 CAN. ENT. RETURN (CANADA)	-3	-3	-3	-3	-3	-3	-3	-3	-3	-21	-21	-21	-21	-21	-9
10 RESTORATION	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
11 TOTAL HYDRO	876	840	737	754	910	986	1129	989	978	932	915	1115	941	840	930
12 SMALL THERMAL & MISC	0	0	0	0	6	6	6	6	0	0	0	0	0	0	2
13 COMBUSTION TURBINES	0	0	0	0	148	144	144	158	0	0	0	0	0	0	49
14 CSPE PURCHASE	38	38	38	38	38	38	38	38	38	18	18	18	18	18	31
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	2	2	2	2	143	143	143	143	2	2	2	2	2	2	49
18 CONTRACTS IN	279	279	280	430	514	517	516	516	472	244	244	280	280	279	384
19 LARGE THERMAL	680	680	680	680	680	680	680	680	680	547	441	439	663	680	643
20 NON-UTILITY GENERATION	632	632	644	644	645	644	644	644	644	632	632	249	553	632	601
21 TOTAL RESOURCES	2507	2471	2381	2548	3084	3158	3300	3174	2814	2375	2252	2103	2457	2451	2689
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	-3	-4	-4	-5	-4	-12	-3
24 HYDRO MAINTENANCE	-13	-7	-1	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	2494	2464	2380	2548	3084	3158	3300	3174	2811	2371	2248	2098	2453	2439	2686
26 SURPLUS/DEFICIT	155	125	-47	-11	108	-148	-208	-124	-317	-376	-499	-336	-62	108	-111
27 DEDICATED RESOURCES	1307	1271	1168	1185	1466	1538	1681	1553	1409	1210	1259	1397	1335	1251	1376
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	155	125	-47	-11	108	-148	-208	-124	-317	-376	-499	-336	-62	108	-111
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	155	125	-47	-11	108	-148	-208	-124	-317	-376	-499	-336	-62	108	-111

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TABLE U-5

PUGET SOUND POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	2384	2384	2432	2729	3182	3539	3739	3511	3328	2917	2917	2625	2515	2362	2939
2 EXPORTS	141	141	141	0	0	0	0	0	0	0	0	0	141	141	47
3 CONTRACTS OUT	151	152	194	195	43	43	43	43	43	43	43	0	43	151	83
4 TOTAL LOADS	2676	2677	2767	2924	3225	3582	3782	3554	3371	2960	2960	2625	2699	2654	3068
RESOURCES															
5 REGULATED HYDRO	816	789	701	719	861	908	1038	901	899	858	842	992	863	783	860
6 INDEPENDENT HYDRO	41	36	29	27	21	52	36	67	51	68	68	64	63	44	47
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37
10 RESTORATION	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
11 TOTAL HYDRO	810	778	683	699	835	913	1027	921	903	879	863	1009	879	780	859
12 SMALL THERMAL & MISC	0	0	0	0	6	6	6	6	0	0	0	0	0	0	2
13 COMBUSTION TURBINES	0	0	0	0	148	144	144	158	0	0	0	0	0	0	49
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	2	2	2	2	143	143	143	143	2	2	2	2	2	2	49
18 CONTRACTS IN	200	200	200	200	313	313	313	313	120	43	43	80	80	80	188
19 LARGE THERMAL	680	680	680	680	680	680	680	680	680	547	441	432	671	680	643
20 NON-UTILITY GENERATION	632	632	644	644	644	644	644	644	644	632	632	249	553	632	600
21 TOTAL RESOURCES	2324	2292	2209	2225	2769	2843	2957	2865	2349	2103	1981	1772	2185	2174	2391
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-13	-7	-1	0	0	0	0	0	-3	-4	-4	-5	-4	-12	-3
25 NET RESOURCES	2311	2285	2208	2225	2769	2843	2957	2865	2346	2099	1977	1767	2181	2162	2388
26 SURPLUS/DEFICIT	-365	-392	-559	-699	-456	-739	-825	-689	-1025	-861	-983	-858	-518	-492	-680
27 DEDICATED RESOURCES	1203	1171	1076	1092	1353	1427	1541	1447	1296	1139	1189	1266	1263	1173	1274
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-365	-392	-559	-699	-456	-739	-825	-689	-1025	-861	-983	-858	-518	-492	-680
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-365	-392	-559	-699	-456	-739	-825	-689	-1025	-861	-983	-858	-518	-492	-680

TABLE U-6

UTAH POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
LOADS																
1 SYSTEM LOADS	418	418	357	354	344	390	355	370	332	298	298	373	485	576	388	
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4 TOTAL LOADS	418	418	357	354	344	390	355	370	332	298	298	373	485	576	388	
RESOURCES																
5 REGULATED HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 TOTAL HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17 IMPORTS	418	418	357	354	344	390	355	370	332	298	298	373	485	576	388	
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21 TOTAL RESOURCES	418	418	357	354	344	390	355	370	332	298	298	373	485	576	388	
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25 NET RESOURCES	418	418	357	354	344	390	355	370	332	298	298	373	485	576	388	
26 SURPLUS/DEFICIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27 DEDICATED RESOURCES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 SURPLUS/DEFICIT W/PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31 SURPLUS/DEFICIT W/EXTRM WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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TABLE U-6

UTAH POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	

LOADS															
1 SYSTEM LOADS	437	437	379	379	373	423	387	405	363	327	327	400	509	597	415
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	437	437	379	379	373	423	387	405	363	327	327	400	509	597	415

RESOURCES															
5 REGULATED HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	437	437	379	379	373	423	387	405	363	327	327	400	509	597	415
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	437	437	379	379	373	423	387	405	363	327	327	400	509	597	415
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	437	437	379	379	373	423	387	405	363	327	327	400	509	597	415
26 SURPLUS/DEFICIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 DEDICATED RESOURCES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE U-6

UTAH POWER & LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	476	476	421	422	419	473	424	447	398	358	358	438	554	645	456
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	476	476	421	422	419	473	424	447	398	358	358	438	554	645	456
RESOURCES															
5 REGULATED HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	476	476	421	422	419	473	424	447	398	358	358	438	554	645	456
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	476	476	421	422	419	473	424	447	398	358	358	438	554	645	456
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	476	476	421	422	419	473	424	447	398	358	358	438	554	645	456
26 SURPLUS/DEFICIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 DEDICATED RESOURCES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE U-7

WASHINGTON WATER POWER
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	803	803	799	863	973	1052	1106	1041	949	869	869	810	792	794	904
2 EXPORTS	72	72	72	0	0	0	0	0	0	0	0	8	72	72	25
3 CONTRACTS OUT	137	137	173	281	282	282	282	283	281	282	173	137	173	137	223
4 TOTAL LOADS	1012	1012	1044	1144	1255	1334	1388	1324	1230	1151	1042	955	1037	1003	1152
RESOURCES															
5 REGULATED HYDRO	348	327	400	407	401	466	434	553	491	634	813	761	659	386	502
6 INDEPENDENT HYDRO	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
11 TOTAL HYDRO	353	332	405	412	406	472	439	559	497	640	819	767	665	391	507
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
14 CSPE PURCHASE	14	14	14	14	14	14	14	14	14	13	13	13	13	13	14
15 RENEWABLES	44	44	44	44	44	44	44	44	44	44	44	44	44	44	40
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	43	72	74	72	39	0	0	0	0	0	25
18 CONTRACTS IN	80	80	134	153	199	179	145	145	107	90	90	25	18	80	113
19 LARGE THERMAL	381	381	381	381	381	381	381	381	381	381	263	249	348	381	362
20 NON-UTILITY GENERATION	67	66	67	67	68	70	70	71	73	74	74	48	49	69	66
21 TOTAL RESOURCES	993	971	1099	1125	1209	1286	1221	1340	1209	1296	1357	1200	1147	1032	1181
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-1	0	0	0	0	0	0	0	0	0	0	0	0	-16	-1
25 NET RESOURCES	992	971	1099	1125	1209	1286	1221	1340	1209	1296	1357	1200	1147	1016	1180
26 SURPLUS/DEFICIT	-20	-41	55	-19	-46	-48	-167	16	-21	145	315	245	110	13	28
27 DEDICATED RESOURCES	604	583	710	736	710	756	689	809	748	890	1069	961	882	641	768
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-20	-41	55	-19	-46	-48	-167	16	-21	145	315	245	110	13	28
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-20	-41	55	-19	-46	-48	-167	16	-21	145	315	245	110	13	28

TABLE U-7

WASHINGTON WATER POWER
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	827	827	817	872	976	1052	1110	1047	954	876	876	821	808	813	914
2 EXPORTS	72	72	72	0	0	0	0	0	0	0	0	8	72	72	25
3 CONTRACTS OUT	75	75	118	118	118	118	118	118	118	118	118	75	118	75	107
4 TOTAL LOADS	974	974	1007	990	1094	1170	1228	1165	1072	994	994	904	998	960	1046
RESOURCES															
5 REGULATED HYDRO	410	295	375	377	437	450	413	489	453	586	747	784	696	432	494
6 INDEPENDENT HYDRO	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	-1
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	-4	-4	-4	-4	-4	-1
10 RESTORATION	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
11 TOTAL HYDRO	417	302	382	384	444	458	420	497	461	591	752	789	701	436	500
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
14 CSPE PURCHASE	11	11	11	11	11	11	11	11	11	5	5	5	5	5	9
15 RENEWABLES	43	43	43	43	43	43	43	43	43	43	43	43	0	43	39
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	43	72	74	72	39	0	0	0	0	0	25
18 CONTRACTS IN	0	0	0	0	78	78	78	78	39	39	39	0	0	0	32
19 LARGE THERMAL	381	381	381	381	381	381	381	381	381	381	263	256	343	381	362
20 NON-UTILITY GENERATION	67	67	67	67	68	70	70	72	73	74	74	48	49	69	66
21 TOTAL RESOURCES	973	858	938	940	1122	1167	1131	1208	1101	1187	1230	1195	1152	988	1089
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-1	0	0	0	0	0	0	0	0	0	0	0	0	-16	-1
25 NET RESOURCES	972	858	938	940	1122	1167	1131	1208	1101	1187	1230	1195	1152	972	1087
26 SURPLUS/DEFICIT	-2	-116	-69	-50	28	-3	-97	43	29	193	236	291	154	12	41
27 DEDICATED RESOURCES	667	552	632	634	694	708	670	747	711	835	996	984	907	680	741
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-2	-116	-69	-50	28	-3	-97	43	29	193	236	291	154	12	41
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-2	-116	-69	-50	28	-3	-97	43	29	193	236	291	154	12	41

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TABLE U-7

WASHINGTON WATER POWER
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	834	834	823	881	991	1070	1131	1066	972	890	890	832	818	822	927
2 EXPORTS	7	72	72	0	0	0	0	0	0	0	0	8	72	72	25
3 CONTRACTS OUT	0	0	43	43	43	43	43	43	43	43	43	0	43	0	32
4 TOTAL LOADS	906	906	938	924	1034	1113	1174	1109	1015	933	933	840	933	894	984
RESOURCES															
5 REGULATED HYDRO	410	295	375	377	437	450	413	489	453	586	747	784	696	432	494
6 INDEPENDENT HYDRO	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
10 RESTORATION	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
11 TOTAL HYDRO	413	298	378	380	440	454	416	493	457	590	751	788	700	435	497
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	44	44	44	44	44	44	44	44	44	44	44	44	0	44	40
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	43	72	74	72	39	0	0	0	0	0	25
18 CONTRACTS IN	0	0	0	0	78	78	78	78	39	39	39	0	0	0	32
19 LARGE THERMAL	381	381	381	381	381	381	381	381	381	381	263	239	362	381	363
20 NON-UTILITY GENERATION	8	8	8	8	9	11	11	13	14	15	15	13	14	6	11
21 TOTAL RESOURCES	900	785	865	867	1049	1094	1058	1135	1028	1123	1166	1138	1130	920	1023
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-1	0	0	0	0	0	0	0	0	0	0	0	0	-16	-1
25 NET RESOURCES	899	785	865	867	1049	1094	1058	1135	1028	1123	1166	1138	1130	904	1021
26 SURPLUS/DEFICIT	-7	-121	-73	-57	15	-19	-116	26	13	190	233	298	197	10	37
27 DEDICATED RESOURCES	652	537	617	619	679	693	655	732	696	829	990	961	920	674	729
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-7	-121	-73	-57	15	-19	-116	26	13	190	233	298	197	10	37
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-7	-121	-73	-57	15	-19	-116	26	13	190	233	298	197	10	37

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TABLE U-8

CHELAN COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	176	176	173	187	207	220	227	211	198	183	183	175	173	179	192
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	8	8	1	0	0	0	0	0	0	0	0	0	8	7	2
4 TOTAL LOADS	184	184	174	187	207	220	227	211	198	183	183	175	181	186	194
RESOURCES															
5 REGULATED HYDRO	132	116	107	111	133	129	148	123	127	115	118	147	101	132	125
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	129	113	104	108	130	126	145	120	124	112	115	144	98	129	122
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	1	1	1	1	12	12	11	12	1	1	1	1	1	1	5
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	133	117	108	112	145	141	159	135	128	116	119	148	102	133	129
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	133	117	108	112	145	141	159	135	128	116	119	148	102	133	129
26 SURPLUS/DEFICIT	-51	-67	-66	-75	-62	-79	-68	-76	-70	-67	-64	-27	-79	-53	-65
27 DEDICATED RESOURCES	204	187	176	180	205	201	218	194	198	185	188	215	167	207	195
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-51	-67	-66	-75	-62	-79	-68	-76	-70	-67	-64	-27	-79	-53	-65
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-51	-67	-66	-75	-62	-79	-68	-76	-70	-67	-64	-27	-79	-53	-65
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-51	-67	-66	-75	-62	-79	-68	-76	-70	-67	-64	-27	-79	-53	-65

TABLE U-8

CHELAN COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	200	200	196	209	230	245	259	240	223	205	205	194	192	198	216
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	8	7	1	0	0	0	0	0	0	0	0	0	8	8	2
4 TOTAL LOADS	208	207	197	209	230	245	259	240	223	205	205	194	200	206	218
RESOURCES															
5 REGULATED HYDRO	150	123	130	133	156	148	182	156	119	147	134	141	109	130	140
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-3	-3	-3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-2
9 CAN. ENT. RETURN (CANADA)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-4	-4	-4	-4	-4	-2
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	146	119	126	129	152	144	178	152	115	142	129	136	104	125	136
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	1	1	1	1	11	12	11	12	1	1	1	1	1	1	4
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	149	122	129	132	165	158	191	166	118	144	131	138	106	127	142
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	149	122	129	132	165	158	191	166	118	144	131	138	106	127	142
26 SURPLUS/DEFICIT	-59	-85	-68	-77	-65	-87	-68	-74	-105	-61	-74	-56	-94	-79	-76
27 DEDICATED RESOURCES	239	211	214	219	247	238	269	246	210	234	220	225	197	220	228
28 BPA PWR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	-59	-85	-68	-77	-65	-87	-68	-74	-105	-61	-74	-56	-94	-79	-76
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-59	-85	-68	-77	-65	-87	-68	-74	-105	-61	-74	-56	-94	-79	-76
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-59	-85	-68	-77	-65	-87	-68	-74	-105	-61	-74	-56	-94	-79	-76

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TABLE U-8

CHELAN COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

LOADS	AUG 1-15		AUG 16-31		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
	213	213	210	227	253	272	283	261	242	221	221	210	206	216	234		
1 SYSTEM LOADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 EXPORTS	8	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT																	
4 TOTAL LOADS	221	220	211	227	253	272	283	261	242	221	221	210	214	224	237		
RESOURCES																	
5 REGULATED HYDRO	196	165	164	168	211	201	264	204	174	191	177	238	162	181	194		
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9 CAN. ENT. RETURN (CANADA)	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6		
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11 TOTAL HYDRO	190	159	158	162	205	195	258	198	168	185	171	232	156	175	188		
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
17 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
18 CONTRACTS IN	1	1	1	1	11	12	12	11	1	1	1	1	1	1	4		
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21 TOTAL RESOURCES	191	160	159	163	216	207	270	209	169	186	172	233	157	176	193		
22 HYD. SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
25 NET RESOURCES	191	160	159	163	216	207	270	209	169	186	172	233	157	176	193		
26 SURPLUS/DEFICIT	-30	-60	-52	-64	-37	-65	-13	-52	-73	-35	-49	23	-57	-48	-44		
27 DEDICATED RESOURCES	287	256	251	256	304	294	354	296	268	282	267	326	255	271	285		
28 BPA PMR SLE CNTRCT PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
29 SURPLUS/DEFICIT W/PURCHASE	-30	-60	-52	-64	-37	-65	-13	-52	-73	-35	-49	23	-57	-48	-44		
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
31 SURPLUS/DEFICIT W/EXTRM MX	-30	-60	-52	-64	-37	-65	-13	-52	-73	-35	-49	23	-57	-48	-44		
32 BPA POSSIBLE EXTRM MX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
33 SURPLUS/DEFICIT AFTR BPA OB	-30	-60	-52	-64	-37	-65	-13	-52	-73	-35	-49	23	-57	-48	-44		

TABLE U-9

COWLITZ COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	492	492	484	516	549	556	585	570	561	542	542	518	498	504	531
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	492	492	484	516	549	556	585	570	561	542	542	518	498	504	531
RESOURCES															
5 REGULATED HYDRO	30	29	31	37	48	45	52	54	46	52	53	22	33	27	40
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
11 TOTAL HYDRO	32	31	33	39	50	47	54	56	48	54	55	24	35	29	42
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	39	38	40	46	57	54	61	63	55	61	62	31	42	36	49
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	39	38	40	46	57	54	61	63	55	61	62	31	42	36	49
26 SURPLUS/DEFICIT	-453	-454	-444	-470	-492	-502	-524	-507	-506	-481	-480	-487	-456	-468	-482
27 DEDICATED RESOURCES	39	38	40	46	57	54	61	63	55	61	62	31	42	36	49
28 BPA PWR SLE CNTRCT PURCH	453	454	444	470	492	502	524	507	506	481	480	487	456	468	482
29 SURPLUS/DEFICIT W/PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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COWLITZ COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	537	537	527	553	578	579	617	601	589	571	571	544	523	531	562
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	537	537	527	553	578	579	617	601	589	571	571	544	523	531	562
RESOURCES															
5 REGULATED HYDRO	29	27	31	36	47	44	51	54	47	53	52	28	39	28	40
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
11 TOTAL HYDRO	32	30	34	39	50	47	54	57	50	56	55	31	42	31	43
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	5	5	5	5	5	5	5	5	5	3	3	3	3	3	4
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	37	35	39	44	55	52	59	62	55	59	58	34	45	34	48
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	37	35	39	44	55	52	59	62	55	59	58	34	45	34	48
26 SURPLUS/DEFICIT	-500	-502	-488	-509	-523	-527	-558	-539	-534	-512	-513	-510	-478	-497	-515
27 DEDICATED RESOURCES	37	35	39	44	55	52	59	62	55	59	58	34	45	34	48
28 BPA PWR SLE CNTRCT PURCH	500	502	488	509	523	527	558	539	534	512	513	510	478	497	515
29 SURPLUS/DEFICIT W/PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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COWLITZ COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	559	559	550	580	611	614	643	628	616	597	597	570	550	561	590
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	559	559	550	580	611	614	643	628	616	597	597	570	550	561	590
RESOURCES															
5 REGULATED HYDRO	29	27	31	36	47	44	51	54	47	53	52	28	39	28	40
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
10 RESTORATION	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
11 TOTAL HYDRO	31	29	33	38	49	46	53	56	49	55	54	30	41	30	42
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	31	29	33	38	49	46	53	56	49	55	54	30	41	30	42
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	31	29	33	38	49	46	53	56	49	55	54	30	41	30	42
26 SURPLUS/DEFICIT	-528	-530	-517	-542	-562	-568	-590	-572	-567	-542	-543	-540	-509	-531	-547
27 DEDICATED RESOURCES	31	29	33	38	49	46	53	56	49	55	54	30	41	30	42
28 BPA PWR SLE CNTRCT PURCH	528	530	517	542	562	568	590	572	567	542	543	540	509	531	547
29 SURPLUS/DEFICIT W/PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE U-10

DOUGLAS COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	67	67	66	71	80	86	96	87	77	69	69	66	67	68	75
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 TOTAL LOADS	68	68	67	72	81	87	97	88	78	70	70	67	68	69	76
RESOURCES															
5 REGULATED HYDRO	117	103	92	93	117	113	133	101	109	95	92	136	80	91	106
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	112	98	87	88	112	108	128	96	104	90	87	131	75	86	101
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	113	99	88	89	113	109	129	97	105	91	88	132	76	87	102
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	113	99	88	89	113	109	129	97	105	91	88	132	76	87	102
26 SURPLUS/DEFICIT	45	31	21	17	32	22	32	9	27	21	18	65	8	18	26
27 DEDICATED RESOURCES	112	98	87	88	112	108	128	96	104	90	87	131	75	86	101
28 BPA PWR SLE CNTRCT PURCH 1/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	45	31	21	17	32	22	32	9	27	21	18	65	8	18	26
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	45	31	21	17	32	22	32	9	27	21	18	65	8	18	26
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	45	31	21	17	32	22	32	9	27	21	18	65	8	18	26

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1/ DOUGLAS HAS REQUESTED ZERO PURCHASE FROM BPA THROUGH THE STUDY HORIZON

TABLE U-10

DOUGLAS COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	70	70	69	73	82	88	101	91	80	70	70	68	68	70	77
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 TOTAL LOADS	71	71	70	74	83	89	102	92	81	71	71	69	69	71	78
RESOURCES															
5 REGULATED HYDRO	99	100	89	90	112	112	134	105	114	99	90	136	104	88	106
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-3	-3	-3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-2
9 CAN. ENT. RETURN (CANADA)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-5	-5	-5	-5	-5	-2
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	95	96	85	86	108	108	130	101	110	93	84	130	98	82	102
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	95	96	85	86	108	108	130	101	110	93	84	130	98	82	102
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	95	96	85	86	108	108	130	101	110	93	84	130	98	82	102
26 SURPLUS/DEFICIT	24	25	15	12	25	19	28	9	29	22	13	61	29	11	23
27 DEDICATED RESOURCES	94	95	84	85	107	107	129	100	109	92	83	129	97	81	101
28 BPA PWR SLE CNTRCT PURCH 1/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	24	25	15	12	25	19	28	9	29	22	13	61	29	11	23
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	24	25	15	12	25	19	28	9	29	22	13	61	29	11	23
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	24	25	15	12	25	19	28	9	29	22	13	61	29	11	23

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1/ DOUGLAS HAS REQUESTED ZERO PURCHASE FROM BPA THROUGH THE STUDY HORIZON

TABLE U-10

DOUGLAS COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	72	72	70	76	87	94	107	96	83	72	72	69	70	74	81
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 TOTAL LOADS	73	73	71	77	88	95	108	97	84	73	73	70	71	75	82
RESOURCES															
5 REGULATED HYDRO	99	100	89	90	112	112	134	105	114	99	90	136	104	88	106
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	91	92	81	82	104	104	126	97	106	91	82	128	96	80	98
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	91	92	81	82	104	104	126	97	106	91	82	128	96	80	98
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	91	92	81	82	104	104	126	97	106	91	82	128	96	80	98
26 SURPLUS/DEFICIT	18	19	10	5	16	9	18	0	22	18	9	58	25	5	17
27 DEDICATED RESOURCES	90	91	80	81	103	103	125	96	105	90	81	127	95	79	97
28 BPA PWR SLE CNTRCT PURCH 1/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SURPLUS/DEFICIT W/PURCHASE	18	19	10	5	16	9	18	0	22	18	9	58	25	5	17
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	18	19	10	5	16	9	18	0	22	18	9	58	25	5	17
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	18	19	10	5	16	9	18	0	22	18	9	58	25	5	17

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1/ DOUGLAS HAS REQUESTED ZERO PURCHASE FROM BPA THROUGH THE STUDY HORIZON

TABLE U-11

EUGENE WATER & ELECTRIC BOARD
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15 16-31	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	236	236	254	282	338	368	376	356	327	293	293	270	249	244	299
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	236	236	254	282	338	368	376	356	327	293	293	270	249	244	299
RESOURCES															
5 REGULATED HYDRO	39	37	37	34	37	41	46	39	41	38	35	37	36	36	38
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	39	37	37	34	37	41	46	39	41	38	35	37	36	36	38
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	5	5	4	0	1	2	9	9	37	37	11	9
21 TOTAL RESOURCES	69	68	67	69	72	68	76	70	73	77	74	104	103	70	76
22 HYD. SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	-4	-2	-2	-4	0	0	0	-2	-4	-4	-4	0	0	-2
25 NET RESOURCES	69	64	65	67	68	68	76	70	71	73	70	100	103	70	75
26 SURPLUS/DEFICIT	-167	-172	-189	-215	-270	-300	-300	-286	-256	-220	-223	-170	-146	-174	-225
27 DEDICATED RESOURCES	51	50	49	51	53	57	57	52	55	59	56	86	85	59	59
28 BPA PWR SLE CNTRCT PURCH	190	190	205	228	273	297	303	287	264	236	236	218	201	197	242
29 SURPLUS/DEFICIT W/PURCHASE	23	19	16	13	3	-3	3	1	8	17	14	48	55	23	17
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	23	19	16	13	3	-3	3	1	8	17	14	48	55	23	17
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	23	19	16	13	3	-3	3	1	8	17	14	48	55	23	17

TABLE U-11

EUGENE WATER & ELECTRIC BOARD
LOADS AND RESOURCES

MEDIUM LOADS

1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1	259	259	277	305	360	388	408	386	353	316	316	290	267	259	322
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	259	259	277	305	360	388	408	386	353	316	316	290	267	259	322
RESOURCES															
5	38	38	35	34	36	41	46	41	41	39	35	42	41	36	39
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	38	38	35	34	36	41	46	41	41	39	35	42	41	36	39
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	12	12	12	12	12	12	12	12	12	6	6	6	6	6	10
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	5	6	4	0	1	2	9	9	37	37	11	9
21	65	65	62	66	69	65	73	69	70	69	65	100	99	61	72
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	-4	-2	-2	-4	0	0	0	-2	-4	-4	-4	0	0	-2
25	65	61	60	64	65	65	73	69	68	65	61	96	99	61	71
26	-194	-198	-217	-241	-295	-323	-335	-317	-285	-251	-255	-194	-168	-198	-252
27	47	47	44	48	51	54	54	51	52	51	47	81	81	50	55
28	216	216	231	254	300	324	340	322	294	264	264	242	223	216	269
29	22	18	14	14	5	1	5	5	9	13	9	48	55	18	17
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	22	18	14	14	5	1	5	5	9	13	9	48	55	18	17
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	22	18	14	14	5	1	5	5	9	13	9	48	55	18	17

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EUGENE WATER & ELECTRIC BOARD
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
LOADS														
1 SYSTEM LOADS	269	269	287	320	381	413	427	403	370	332	332	304	279	272
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	269	269	287	320	381	413	427	403	370	332	332	304	279	272
RESOURCES														
5 REGULATED HYDRO	38	37	34	33	35	40	45	40	40	38	34	41	40	35
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	37	37	34	33	35	40	45	40	40	38	34	41	40	35
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	15	15	15	15	15	8	15	15	15	15	15	15	15	8
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	5	6	4	0	1	2	9	9	37	37	11
21 TOTAL RESOURCES	52	52	49	53	56	52	60	56	57	62	58	93	92	54
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	-4	-2	-2	-4	0	0	0	-2	-4	-4	-4	0	0
25 NET RESOURCES	52	48	47	51	52	52	60	56	55	58	54	89	92	54
26 SURPLUS/DEFICIT	-217	-221	-240	-269	-329	-361	-367	-347	-315	-274	-278	-215	-187	-218
27 DEDICATED RESOURCES	34	34	31	35	38	41	41	38	39	44	40	74	74	43
28 BPA PWR SLE CNTRCT PURCH	235	235	251	280	333	361	373	352	323	290	290	266	244	238
29 SURPLUS/DEFICIT W/PURCHASE	18	15	11	11	4	0	6	5	8	16	12	51	57	20
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	18	15	11	11	4	0	6	5	8	16	12	51	57	20
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	18	15	11	11	4	0	6	5	8	16	12	51	57	20

TABLE U-12

GRANT COUNTY PUD #2
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	341	341	291	281	276	313	342	313	287	295	295	322	357	333	313
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	13	13	10	8	7	8	9	7	8	10	10	13	14	14	10
4 TOTAL LOADS	354	354	301	289	283	321	351	320	295	305	305	335	371	347	323
RESOURCES															
5 REGULATED HYDRO	329	340	300	306	391	374	452	338	363	319	333	344	284	303	343
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-6	-6	-6	-6	-7
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
11 TOTAL HYDRO	319	330	290	296	381	364	442	328	353	310	324	335	275	294	333
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	12	12	7	5	0	0	0	0	1	11	11	14	15	14	7
21 TOTAL RESOURCES	332	343	298	302	382	365	443	329	355	322	336	350	291	309	341
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	332	343	298	302	382	365	443	329	355	322	336	350	291	309	341
26 SURPLUS/DEFICIT	-22	-11	-3	13	99	44	92	9	60	17	31	15	-80	-38	18
27 DEDICATED RESOURCES	274	284	251	258	336	319	388	289	310	269	282	288	234	250	290
28A BPA PWR SLE CN PURCH(METR)	3	3	3	5	8	12	11	10	7	5	5	4	4	4	6
28B BPA PWR SLE CN PUR(COMPT)	18	18	15	15	14	16	18	16	15	15	15	17	19	17	16
29 SURPLUS/DEFICIT W/PURCHASE	-1	10	16	33	122	73	121	35	82	38	52	36	-58	-17	41
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-1	10	16	33	122	73	121	35	82	38	52	36	-58	-17	41
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-1	10	16	33	122	73	121	35	82	38	52	36	-58	-17	41

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TABLE U-12

GRANT COUNTY PUD #2
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	372	372	317	302	292	329	365	332	305	312	312	340	376	353	333
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	13	13	10	8	7	8	9	7	8	10	10	12	14	14	10
4 TOTAL LOADS	385	385	327	310	299	337	374	339	313	322	322	352	390	367	343
RESOURCES															
5 REGULATED HYDRO	309	325	292	297	374	370	454	349	378	331	327	422	370	307	355
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	-3	-3	-3	-3	-4
9 CAN. ENT. RETURN (CANADA)	-2	-2	-2	-2	-2	-2	-2	-2	-2	-9	-9	-9	-9	-9	-4
10 RESTORATION	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
11 TOTAL HYDRO	299	315	282	287	364	360	444	339	368	316	312	407	355	292	343
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	12	12	7	5	0	0	0	0	1	11	11	14	15	14	7
21 TOTAL RESOURCES	312	328	290	293	365	361	445	340	370	327	323	421	370	306	350
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	312	328	290	293	365	361	445	340	370	327	323	421	370	306	350
26 SURPLUS/DEFICIT	-73	-57	-37	-17	66	24	71	1	57	5	1	69	-20	-61	8
27 DEDICATED RESOURCES	256	271	244	250	320	316	390	299	324	272	270	353	304	247	298
28A BPA PWR SLE CN PURCH(METR)	5	5	5	7	12	18	16	15	10	8	8	5	5	6	9
28B BPA PWR SLE CN PUR(COMPT)	28	28	24	23	22	25	28	25	23	24	24	26	28	27	25
29 SURPLUS/DEFICIT W/PURCHASE	-40	-24	-8	13	100	67	115	41	90	36	32	100	14	-29	42
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-40	-24	-8	13	100	67	115	41	90	36	32	100	14	-29	42
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-40	-24	-8	13	100	67	115	41	90	36	32	100	14	-29	42

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GRANT COUNTY PUD #2
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	386	386	330	316	310	350	382	348	320	328	328	357	396	371	349
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	13	13	10	8	7	8	9	7	8	10	10	13	14	14	10
4 TOTAL LOADS	399	399	340	324	317	358	391	355	328	338	338	370	410	385	360
RESOURCES															
5 REGULATED HYDRO	309	325	292	297	374	370	454	349	378	331	327	422	370	307	355
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16
10 RESTORATION	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
11 TOTAL HYDRO	290	306	273	278	355	351	435	330	359	312	308	403	351	288	336
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	12	12	7	5	0	0	0	0	1	11	11	14	15	14	7
21 TOTAL RESOURCES	302	318	280	283	355	351	435	330	360	323	319	417	366	302	342
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	302	318	280	283	355	351	435	330	360	323	319	417	366	302	342
26 SURPLUS/DEFICIT	-97	-81	-60	-41	38	-7	44	-25	32	-15	-19	47	-44	-83	-17
27 DEDICATED RESOURCES	246	261	234	240	310	306	380	289	314	268	266	348	300	243	290
28A BPA PWR SLE CN PURCH(METR)	7	7	8	12	20	29	26	23	16	12	12	9	9	9	15
28B BPA PWR SLE CN PUR(COMPT)	49	49	42	40	39	44	48	44	40	41	41	45	50	47	44
29 SURPLUS/DEFICIT W/PURCHASE	-41	-25	-10	11	97	66	118	42	89	39	35	101	15	-27	42
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-41	-25	-10	11	97	66	118	42	89	39	35	101	15	-27	42
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-41	-25	-10	11	97	66	118	42	89	39	35	101	15	-27	42

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PEND OREILLE COUNTY PUD #1

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1A SYSTEM LOADS PF PURCHASE	28	28	27	33	38	44	47	37	41	37	37	32	30	28	35
1B PONDERAY FIBRE MILL	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
4 TOTAL LOADS	1/ 105	105	104	110	115	121	124	114	118	114	114	109	107	105	112
RESOURCES															
5 REGULATED HYDRO	43	32	53	65	48	52	44	56	52	68	74	74	61	48	55
6 INDEPENDENT HYDRO	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	43	32	54	65	48	53	44	56	53	68	74	75	61	48	55
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	33	33	33	33	33	33	33	34	33	34	33	33	33	33	33
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	77	66	88	99	82	87	78	91	87	103	108	109	95	82	90
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	77	66	88	99	82	87	78	91	87	103	108	109	95	82	90
26 SURPLUS/DEFICIT	-28	-39	-16	-11	-33	-34	-46	-23	-31	-11	-6	0	-12	-23	-23
27 DEDICATED RESOURCES	2/ -10	-14	1	12	-5	0	-9	3	0	15	21	22	8	-5	3
28 BPA PWR SLE CNTRCT PURCH	38	42	26	21	43	44	56	34	41	22	16	10	22	33	32
29 SURPLUS/DEFICIT W/PURCHASE	10	3	10	10	10	10	10	11	10	11	10	10	10	10	10
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	10	3	10	10	10	10	10	11	10	11	10	10	10	10	10
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	10	3	10	10	10	10	10	11	10	11	10	10	10	10	10

FOOTNOTE: 1/ LOADS INCLUDE PONDERAY FIBRE MILL LOAD BEGINNING JULY 1989
 2/ DEDICATED RESOURCES ARE REDUCED TO MEET PONDERAY FIBRE MILL BEGINNING JULY 1989

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PEND OREILLE COUNTY PUD #1

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1A SYSTEM LOADS PF PURCHASE	33	33	31	37	40	46	52	41	45	40	40	35	32	32	39
1B PONDERAY FIBRE MILL	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
4 TOTAL LOADS	107	107	105	111	114	120	126	115	119	114	114	109	106	106	113
RESOURCES															
5 REGULATED HYDRO	61	29	53	64	58	53	46	51	43	58	74	74	59	54	55
6 INDEPENDENT HYDRO	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	61	29	54	64	58	54	46	51	44	58	74	75	59	54	56
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	26	27	27	27	27	27	27	27	27	27	27	27	26	26	27
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	87	56	81	91	85	81	73	78	71	85	101	102	85	80	83
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	87	56	81	91	85	81	73	78	71	85	101	102	85	80	83
26 SURPLUS/DEFICIT	-20	-51	-24	-20	-29	-39	-53	-37	-48	-29	-13	-7	-21	-26	-30
27 DEDICATED RESOURCES	13	-12	7	17	11	7	-1	4	-3	11	27	28	11	6	9
28 BPA PWR SLE CNTRCT PURCH	20	45	24	20	29	39	53	37	48	29	13	7	21	26	30
29 SURPLUS/DEFICIT W/PURCHASE	0	-6	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	-6	0	0	0	0	0	0	0	0	0	0	0	0	0
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	0	-6	0	0	0	0	0	0	0	0	0	0	0	0	0

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FOOTNOTE: 1/ LOADS INCLUDE PONDERAY FIBRE MILL LOAD BEGINNING JULY 1989
 2/ DEDICATED RESOURCES ARE REDUCED TO MEET PONDERAY FIBRE MILL BEGINNING JULY 1989

TABLE U-13

PEND OREILLE COUNTY PUD #1

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL		
ENERGY IN AVERAGE MEGAWATTS	1-15	16-31								1-15	16-30					
LOADS																
1A SYSTEM LOADS PF PURCHASE	36	36	34	42	47	55	59	47	51	46	46	40	37	36	44	
1B PONDERAY FIBRE MILL	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 CONTRACTS OUT	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
4 TOTAL LOADS 1/	107	107	105	113	118	126	130	118	122	117	117	111	108	107	115	
RESOURCES																
5 REGULATED HYDRO	61	29	53	64	58	53	46	51	43	58	74	74	59	54	55	
6 INDEPENDENT HYDRO	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 TOTAL HYDRO	61	29	54	64	58	54	46	51	44	58	74	75	59	54	56	
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18 CONTRACTS IN	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21 TOTAL RESOURCES	91	59	84	94	88	84	76	81	74	88	104	105	89	84	86	
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25 NET RESOURCES	91	59	84	94	88	84	76	81	74	88	104	105	89	84	86	
26 SURPLUS/DEFICIT	-16	-48	-21	-19	-30	-42	-54	-37	-48	-29	-13	-6	-19	-23	-29	
27 DEDICATED RESOURCES 2/	20	-9	13	23	17	13	5	10	3	17	33	34	18	13	15	
28 BPA PWR SLE CNTRCT PURCH	16	45	21	19	30	42	54	37	48	29	13	6	19	23	29	
29 SURPLUS/DEFICIT W/PURCHASE	0	-3	0	0	0	0	0	0	0	0	0	0	0	0	0	
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31 SURPLUS/DEFICIT W/EXTRM WX	0	-3	0	0	0	0	0	0	0	0	0	0	0	0	0	
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33 SURPLUS/DEFICIT AFTR BPA OB	0	-3	0	0	0	0	0	0	0	0	0	0	0	0	0	

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FOOTNOTE: 1/ LOADS INCLUDE PONDERAY FIBRE MILL LOAD BEGINNING JULY 1989
 2/ DEDICATED RESOURCES ARE REDUCED TO MEET PONDERAY FIBRE MILL BEGINNING JULY 1989

TABLE U-14

SEATTLE CITY LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	906	906	910	1053	1186	1244	1300	1189	1203	1092	1092	965	914	918	1073
2 EXPORTS	19	19	31	15	0	0	0	0	0	0	0	0	31	31	11
3 CONTRACTS OUT	77	77	39	73	23	23	23	23	23	23	23	23	23	123	41
4 TOTAL LOADS	1002	1002	980	1141	1209	1267	1323	1212	1226	1115	1115	988	968	1072	1125
RESOURCES															
5 REGULATED HYDRO	429	394	507	718	586	618	590	680	631	713	817	751	748	624	636
6 INDEPENDENT HYDRO	15	15	11	14	7	6	15	34	17	14	14	13	12	12	14
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11 TOTAL HYDRO	445	410	519	733	594	625	606	715	649	728	832	765	761	637	651
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	35	35	35	35	35	35	35	35	35	33	33	33	33	33	34
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
18 CONTRACTS IN	65	65	15	15	40	65	65	65	15	15	15	15	15	15	34
19 LARGE THERMAL	99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
20 NON-UTILITY GENERATION	121	121	75	28	4	5	10	12	28	88	88	134	141	138	65
21 TOTAL RESOURCES	783	748	756	929	807	874	873	993	886	990	1094	1042	1067	946	915
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	-3	0	0	0	0	0	0	0	-7	-3	0	-1
25 NET RESOURCES	783	748	756	926	807	874	873	993	886	990	1094	1035	1064	946	914
26 SURPLUS/DEFICIT	-219	-254	-224	-215	-402	-393	-450	-219	-340	-125	-21	47	96	-126	-211
27 DEDICATED RESOURCES	710	675	733	906	759	801	800	920	863	967	1071	1019	1044	923	873
28 BPA PWR SLE CNTRCT PURCH	170	170	171	197	222	233	244	223	226	205	205	181	171	172	201
29 SURPLUS/DEFICIT W/PURCHASE	-49	-84	-53	-18	-180	-160	-206	4	-114	80	184	228	267	46	-10
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-49	-84	-53	-18	-180	-160	-206	4	-114	80	184	228	267	46	-10
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-49	-84	-53	-18	-180	-160	-206	4	-114	80	184	228	267	46	-10

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TABLE U-14

SEATTLE CITY LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	988	988	990	1131	1255	1305	1409	1286	1299	1178	1178	1037	981	976	1153
2 EXPORTS	19	19	31	15	0	0	0	0	0	0	0	0	31	31	11
3 CONTRACTS OUT	80	81	43	77	27	27	27	27	27	27	27	27	26	126	45
4 TOTAL LOADS	1087	1088	1064	1223	1282	1332	1436	1313	1326	1205	1205	1064	1038	1133	1209
RESOURCES															
5 REGULATED HYDRO	572	375	508	713	662	623	603	636	568	616	827	751	742	674	640
6 INDEPENDENT HYDRO	15	15	11	14	7	6	15	34	17	14	14	13	12	12	14
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	-1
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
10 RESTORATION	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11 TOTAL HYDRO	588	391	520	728	670	630	619	671	586	631	842	765	755	687	655
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	27	27	27	27	27	27	27	27	27	13	13	13	13	13	22
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	18	18	13	19	59	75	88	97	90	33	33	26	36	24	48
18 CONTRACTS IN	62	62	12	12	37	62	62	62	12	12	12	12	12	12	31
19 LARGE THERMAL	99	99	99	99	99	99	99	99	99	99	99	72	78	99	95
20 NON-UTILITY GENERATION	121	121	76	28	4	5	10	12	28	88	88	134	142	138	65
21 TOTAL RESOURCES	915	718	747	913	896	898	905	968	842	876	1087	1022	1036	973	916
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	-3	0	0	0	0	0	0	0	-7	-3	0	-1
25 NET RESOURCES	915	718	747	910	896	898	905	968	842	876	1087	1015	1033	973	915
26 SURPLUS/DEFICIT	-172	-370	-317	-313	-386	-434	-531	-345	-484	-329	-118	-49	-5	-160	-293
27 DEDICATED RESOURCES	839	641	720	886	820	791	798	861	785	843	1054	995	1010	947	858
28 BPA PMR SLE CNTRCT PURCH	253	253	254	290	322	335	361	330	333	302	302	266	252	250	296
29 SURPLUS/DEFICIT W/PURCHASE	81	-117	-63	-23	-64	-99	-170	-15	-151	-27	184	217	246	90	2
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	81	-117	-63	-23	-64	-99	-170	-15	-151	-27	184	217	246	90	2
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OBLG	81	-117	-63	-23	-64	-99	-170	-15	-151	-27	184	217	246	90	2

TABLE U-14

SEATTLE CITY LIGHT
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	1021	1021	1024	1182	1324	1384	1480	1350	1366	1239	1239	1093	1032	1021	1210
2 EXPORTS	19	19	31	15	0	0	0	0	0	0	0	0	31	31	11
3 CONTRACTS OUT	84	84	46	80	30	30	30	30	30	30	30	30	30	30	40
4 TOTAL LOADS	1124	1124	1101	1277	1354	1414	1510	1380	1396	1269	1269	1123	1093	1082	1260
RESOURCES															
5 REGULATED HYDRO	572	375	508	713	662	623	603	636	568	616	827	751	742	674	640
6 INDEPENDENT HYDRO	15	15	11	14	7	6	15	34	17	14	14	13	12	12	14
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
10 RESTORATION	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11 TOTAL HYDRO	588	391	520	728	670	630	619	671	586	631	842	765	755	687	655
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
17 IMPORTS	59	59	9	9	9	9	9	9	9	9	9	9	9	9	13
18 CONTRACTS IN	99	99	99	99	99	99	99	99	99	99	99	63	89	99	95
19 LARGE THERMAL	121	121	76	28	4	5	10	12	28	88	88	134	142	138	65
20 NON-UTILITY GENERATION															
21 TOTAL RESOURCES	885	688	717	883	817	788	795	858	782	854	1065	997	1031	957	864
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	-3	0	0	0	0	0	0	0	-7	-3	0	-1
24 HYDRO MAINTENANCE	0	0	0												
25 NET RESOURCES	885	688	717	880	817	788	795	858	782	854	1065	990	1028	957	863
26 SURPLUS/DEFICIT	-239	-436	-384	-397	-537	-626	-715	-522	-614	-415	-204	-133	-65	-125	-397
27 DEDICATED RESOURCES	805	608	687	853	787	758	765	828	752	824	1035	967	1001	927	830
28 BPA PHR SLE CNTRCT PURCH	321	321	322	372	417	436	466	425	430	390	390	344	325	321	381
29 SURPLUS/DEFICIT W/PURCHASE	82	-115	-62	-25	-120	-190	-249	-97	-184	-25	186	211	259	196	-16
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	82	-115	-62	-25	-120	-190	-249	-97	-184	-25	186	211	259	196	-16
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	82	-115	-62	-25	-120	-190	-249	-97	-184	-25	186	211	259	196	-16

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SNOHOMISH COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	498	498	537	606	759	806	859	855	735	672	672	577	534	489	661
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	3	3	4	4	5	8	7	6	6	5	5	4	4	3	5
4 TOTAL LOADS	501	501	541	610	764	814	866	861	741	677	677	581	538	492	665
RESOURCES															
5 REGULATED HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 INDEPENDENT HYDRO	18	18	21	22	19	25	29	93	39	51	51	35	37	21	34
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	18	18	21	22	19	25	29	93	39	51	51	35	37	21	34
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	121	121	124	125	122	128	132	196	142	154	154	108	122	124	133
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	121	121	124	125	122	128	132	196	142	154	154	108	122	124	133
26 SURPLUS/DEFICIT	-380	-380	-417	-485	-642	-686	-734	-665	-599	-523	-523	-473	-416	-368	-532
27 DEDICATED RESOURCES	121	121	124	125	122	128	132	196	142	154	154	108	122	124	133
28 BPA PWR SLE CNTRCT PURCH	380	380	417	485	642	686	734	665	599	523	523	473	416	368	532
29 SURPLUS/DEFICIT W/PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE U-15

SNOHOMISH COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	547	547	587	654	809	851	912	905	777	710	710	607	561	522	703
2 EXPORTS	32	32	23	23	23	23	23	23	23	32	32	32	32	32	27
3 CONTRACTS OUT	3	3	4	4	5	7	7	6	6	5	5	4	4	3	5
4 TOTAL LOADS	582	582	614	681	837	881	942	934	806	747	747	643	597	557	735
RESOURCES															
5 REGULATED HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 INDEPENDENT HYDRO	18	18	21	22	19	25	29	93	39	51	51	35	37	21	34
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	18	18	21	22	19	25	29	93	39	51	51	35	37	21	34
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	38	38	27	27	27	27	27	27	27	38	38	38	38	38	32
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	99	99	99	99	99	99	99	99	99	99	99	73	78	99	95
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	158	158	150	151	148	154	158	222	168	190	190	148	155	160	163
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	158	158	150	151	148	154	158	222	168	190	190	148	155	160	163
26 SURPLUS/DEFICIT	-424	-424	-464	-530	-689	-727	-784	-712	-638	-557	-557	-495	-442	-397	-572
27 DEDICATED RESOURCES	120	120	123	124	121	127	131	195	141	152	152	110	117	122	132
28 BPA PWR SLE CNTRCT PURCH	462	462	491	557	716	754	811	739	665	595	595	533	480	435	603
29 SURPLUS/DEFICIT W/PURCHASE	38	38	27	27	27	27	27	27	27	38	38	38	38	38	31
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	38	38	27	27	27	27	27	27	27	38	38	38	38	38	31
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	38	38	27	27	27	27	27	27	27	38	38	38	38	38	31

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TABLE U-15

SNOHOMISH COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	566	566	611	687	857	906	954	947	814	745	745	637	589	549	738
2 EXPORTS	32	32	23	23	23	23	23	23	23	32	32	33	32	32	27
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	598	598	634	710	880	929	977	970	837	777	777	670	621	581	765
RESOURCES															
5 REGULATED HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 INDEPENDENT HYDRO	18	18	21	22	19	25	29	93	39	51	51	35	37	21	34
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	18	18	21	22	19	25	29	93	39	51	51	35	37	21	34
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	38	38	27	27	27	27	27	27	27	38	38	38	38	38	32
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	99	99	99	99	99	99	99	99	99	99	99	63	88	99	95
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	155	155	147	148	145	151	155	219	165	188	188	136	163	158	161
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	155	155	147	148	145	151	155	219	165	188	188	136	163	158	161
26 SURPLUS/DEFICIT	-443	-443	-487	-562	-735	-778	-822	-751	-672	-589	-589	-534	-458	-423	-604
27 DEDICATED RESOURCES	117	117	120	121	118	124	128	192	138	150	150	98	125	120	129
28 BPA PWR SLE CNTRCT PURCH	481	481	514	589	762	805	849	778	699	627	627	572	496	461	636
29 SURPLUS/DEFICIT W/PURCHASE	38	38	27	27	27	27	27	27	27	38	38	38	38	38	31
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	38	38	27	27	27	27	27	27	27	38	38	38	38	38	31
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	38	38	27	27	27	27	27	27	27	38	38	38	38	38	31

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TACOMA PUBLIC UTILITIES
LOADS AND RESOURCES

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	555	555	561	630	730	778	777	750	717	660	660	593	554	549	654
2 EXPORTS	41	41	69	67	40	29	20	24	32	41	41	41	41	41	40
3 CONTRACTS OUT	50	50	0	0	0	0	0	0	0	0	0	0	0	0	4
4 TOTAL LOADS	646	646	630	697	770	807	797	774	749	701	701	634	595	590	699
RESOURCES															
5 REGULATED HYDRO	176	168	219	282	260	409	327	284	220	232	326	240	236	192	260
6 INDEPENDENT HYDRO	4	4	4	5	5	5	5	5	5	5	5	5	5	4	5
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	179	171	222	286	264	413	331	288	224	236	330	244	240	195	264
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	35	35	35	35	35	35	35	35	35	33	33	33	33	33	34
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
17 IMPORTS	0	0	0	50	0	0	0	0	0	0	0	0	0	0	95
18 CONTRACTS IN	99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
19 LARGE THERMAL	53	53	33	15	0	0	0	0	4	35	35	49	55	59	25
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	313	305	356	470	398	547	465	422	358	368	462	346	354	327	397
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	313	305	356	470	398	547	465	422	358	368	462	346	354	327	397
26 SURPLUS/DEFICIT	-333	-341	-274	-227	-372	-260	-332	-352	-391	-333	-239	-288	-241	-263	-302
27 DEDICATED RESOURCES	297	289	340	403	381	530	448	405	341	353	447	331	339	313	376
28 BPA PWR SLE CNTRCT PURCH	236	236	238	268	310	330	330	319	305	280	280	252	235	233	278
29 SURPLUS/DEFICIT W/PURCHASE	-97	-105	-36	41	-62	70	-2	-33	-86	-53	41	-36	-6	-30	-24
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-97	-105	-36	41	-62	70	-2	-33	-86	-53	41	-36	-6	-30	-24
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-97	-105	-36	41	-62	70	-2	-33	-86	-53	41	-36	-6	-30	-24

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TABLE U-16

TACOMA PUBLIC UTILITIES
LOADS AND RESOURCES

M E D I U M L O A D S

1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

LOADS	AUG 1-15		AUG 16-31		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15		APR 16-30		MAY	JUN	JUL
	1998	1993	1998	1993								1998	1993					
1 SYSTEM LOADS	602	602	607	676	777	825	844	813	773	708	708	632	588	578	702			
2 EXPORTS	41	41	69	67	41	29	20	26	32	41	41	41	41	41	41			
3 CONTRACTS OUT	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0			
4 TOTAL LOADS	693	693	676	743	818	854	864	837	805	749	749	673	629	619	747			
RESOURCES																		
5 REGULATED HYDRO	167	167	218	281	258	408	328	285	221	233	325	240	244	191	260			
6 INDEPENDENT HYDRO	4	4	4	5	5	5	5	5	5	5	5	5	5	4	5			
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
11 TOTAL HYDRO	170	170	221	285	262	412	332	289	225	237	329	244	248	194	264			
12 SMALL THERMAL & MISC COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
13 CSPE PURCHASE	27	27	27	27	27	27	27	27	27	13	13	13	13	13	22			
14 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
15 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
16 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17 CONTRACTS IN	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0			
18 LARGE THERMAL	99	99	99	99	99	99	99	99	99	99	99	72	78	99	95			
19 NON-UTILITY GENERATION	54	54	33	15	0	0	0	0	4	35	35	49	55	59	25			
20 TOTAL RESOURCES	296	296	347	461	388	538	458	415	351	349	441	329	339	306	385			
21 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
22 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
23 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
24 NET RESOURCES	296	296	347	461	388	538	458	415	351	349	441	329	339	306	385			
25 SURPLUS/DEFICIT	-397	-397	-329	-282	-430	-316	-406	-422	-454	-400	-308	-344	-290	-313	-361			
26 DEDICATED RESOURCES	288	288	339	402	379	529	449	406	342	348	440	328	338	306	375			
27 BPA PMR SLE CNTRCT PURCH	281	281	283	315	362	385	394	379	360	330	330	295	274	270	327			
28 SURPLUS/DEFICIT W/PURCHASE	-116	-116	-46	33	-68	69	-12	-43	-94	-70	22	-49	-16	-43	-34			
29 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
30 SURPLUS/DEFICIT W/EXTRM WX	-116	-116	-46	33	-68	69	-12	-43	-94	-70	22	-49	-16	-43	-34			
31 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
32 SURPLUS/DEFICIT AFTR BPA OBLG	-116	-116	-46	33	-68	69	-12	-43	-94	-70	22	-49	-16	-43	-34			

TABLE U-16

TACOMA PUBLIC UTILITIES
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	616	616	623	705	821	879	893	860	817	747	747	665	617	604	737
2 EXPORTS	41	41	69	67	41	29	20	24	32	41	41	41	41	41	41
3 CONTRACTS OUT	50	50	0	0	0	0	0	0	0	0	0	0	0	0	4
4 TOTAL LOADS	707	707	692	772	862	908	913	884	849	788	788	706	658	645	782
RESOURCES															
5 REGULATED HYDRO	167	167	218	281	258	408	328	285	221	233	325	240	244	191	260
6 INDEPENDENT HYDRO	4	4	4	5	5	5	5	5	5	5	5	5	5	4	5
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	169	169	220	284	261	411	331	288	224	236	328	243	247	193	263
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	50	0	0	0	0	0	0	0	0	0	0	4
19 LARGE THERMAL	99	99	99	99	99	99	99	99	99	99	99	63	89	99	95
20 NON-UTILITY GENERATION	53	54	33	15	0	0	0	0	4	35	35	49	55	59	25
21 TOTAL RESOURCES	268	268	319	433	360	510	430	387	323	335	427	306	336	292	362
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	268	268	319	433	360	510	430	387	323	335	427	306	336	292	362
26 SURPLUS/DEFICIT	-439	-439	-373	-339	-502	-398	-483	-497	-526	-453	-361	-400	-322	-353	-420
27 DEDICATED RESOURCES	268	268	319	382	359	509	429	386	322	334	426	305	335	292	357
28 BPA PWR SLE CNTRCT PURCH	318	318	321	363	423	453	460	443	421	385	385	343	318	311	380
29 SURPLUS/DEFICIT W/PURCHASE	-121	-121	-52	24	-79	55	-23	-54	-105	-68	24	-57	-4	-42	-40
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-121	-121	-52	24	-79	55	-23	-54	-105	-68	24	-57	-4	-42	-40
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-121	-121	-52	24	-79	55	-23	-54	-105	-68	24	-57	-4	-42	-40

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TABLE U-17

SMALL AND NONGENERATING PUBLIC AGENCIES
INCLUDING CLARK COUNTY PUD #1 AND GRAY HARBOR COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
LOADS																
1 ADJUSTED SYSTEM LOADS	3132	3132	2962	3046	3513	3871	3991	3757	3443	3260	3260	3148	3071	3222	3368	
2 EXPORTS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4	
3 CONTRACTS OUT	4	4	4	4	4	5	5	4	4	4	4	4	4	4	4	
4 TOTAL LOADS	3151	3151	2966	3050	3517	3876	3996	3761	3447	3264	3264	3152	3092	3245	3376	
RESOURCES																
5 REGULATED HYDRO	51	49	44	44	56	51	62	49	50	45	43	56	39	42	49	
6 INDEPENDENT HYDRO	30	31	24	27	28	30	31	29	33	37	37	35	34	33	31	
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 TOTAL HYDRO	80	79	67	70	83	80	92	77	82	81	79	90	72	74	79	
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14 CSPE PURCHASE	37	37	37	37	37	37	37	37	37	36	36	36	36	36	37	
15 RENEWABLES	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18 CONTRACTS IN	7	7	11	11	11	3	3	11	11	11	11	11	8	8	8	
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20 NON-UTILITY GENERATION	7	7	25	25	26	26	7	7	7	7	7	7	7	7	13	
21 TOTAL RESOURCES	133	132	142	145	159	148	141	134	139	137	135	146	125	119	139	
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25 NET RESOURCES	133	132	142	145	159	148	141	134	139	137	135	146	125	119	139	
26 SURPLUS/DEFICIT	-3018	-3019	-2824	-2905	-3358	-3728	-3855	-3627	-3308	-3127	-3129	-3006	-2967	-3126	-3238	
27 DEDICATED RESOURCES	118	117	142	145	159	148	141	134	139	137	135	146	108	100	135	
28 BPA PWR SLE CNTRCT PURCH	3014	3015	2820	2901	3354	3723	3850	3623	3304	3123	3125	3002	2963	3122	3233	
29 SURPLUS/DEFICIT W/PURCHASE	-4	-4	-4	-4	-4	-5	-5	-4	-4	-4	-4	-4	-4	-4	-4	
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31 SURPLUS/DEFICIT W/EXTRM WX	-4	-4	-4	-4	-4	-5	-5	-4	-4	-4	-4	-4	-4	-4	-4	
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33 SURPLUS/DEFICIT AFTR BPA OB	-4	-4	-4	-4	-4	-5	-5	-4	-4	-4	-4	-4	-4	-4	-4	

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TABLE U-17

SMALL AND NONGENERATING PUBLIC AGENCIES
INCLUDING CLARK COUNTY PUD #1 AND GRAY HARBOR COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
LOADS																
1 ADJUSTED SYSTEM LOADS	3371	3371	3199	3275	3732	4083	4306	4040	3699	3470	3470	3338	3249	3415	3598	
2 EXPORTS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4	
3 CONTRACTS OUT	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
4 TOTAL LOADS	3390	3390	3203	3279	3736	4087	4310	4044	3703	3474	3474	3342	3270	3438	3606	
RESOURCES																
5 REGULATED HYDRO	46	46	42	42	52	54	62	50	56	46	44	62	51	42	50	
6 INDEPENDENT HYDRO	37	38	31	34	35	37	38	36	40	44	44	42	41	40	38	
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8 CAN. ENT. RETURN (CSPE)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	-2	-2	-2	-2	-2	-1	
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 TOTAL HYDRO	82	83	72	75	86	90	99	85	95	87	85	101	89	79	87	
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14 CSPE PURCHASE	29	29	29	29	29	29	29	29	29	14	14	14	14	14	24	
15 RENEWABLES	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17 IMPORTS	0	0	0	0	0	0	0	0	0	6	6	6	6	6	7	
18 CONTRACTS IN	7	7	10	10	11	3	6	6	6	6	6	6	6	6	6	
19 LARGE THERMAL	49	49	49	49	49	49	49	49	49	49	49	36	39	49	47	
20 NON-UTILITY GENERATION	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
21 TOTAL RESOURCES	179	180	172	175	187	183	195	181	191	168	166	169	160	160	177	
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25 NET RESOURCES	179	180	172	175	187	183	195	181	191	168	166	169	160	160	177	
26 SURPLUS/DEFICIT	-3211	-3210	-3031	-3104	-3549	-3904	-4115	-3863	-3512	-3306	-3308	-3173	-3110	-3278	-3430	
27 DEDICATED RESOURCES	108	109	116	119	131	127	139	125	135	112	110	126	97	85	118	
28 BPA PWR SLE CNTRCT PURCH	3263	3262	3083	3156	3601	3956	4167	3915	3564	3358	3360	3212	3152	3330	3480	
29 SURPLUS/DEFICIT W/PURCHASE	52	52	52	52	52	52	52	52	52	52	52	39	42	52	50	
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31 SURPLUS/DEFICIT W/EXTRM WX	52	52	52	52	52	52	52	52	52	52	52	39	42	52	50	
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33 SURPLUS/DEFICIT AFTR BPA OB	52	52	52	52	52	52	52	52	52	52	52	39	42	52	50	

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TABLE U-17

SMALL AND NONGENERATING PUBLIC AGENCIES
INCLUDING CLARK COUNTY PUD #1 AND GRAY HARBOR COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 ADJUSTED SYSTEM LOADS	3517	3517	3329	3430	3957	4360	4529	4249	3890	3650	3650	3511	3417	3592	3786
2 EXPORTS	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4
3 CONTRACTS OUT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4 TOTAL LOADS	3535	3535	3332	3433	3960	4363	4532	4252	3893	3653	3653	3514	3437	3614	3793
RESOURCES															
5 REGULATED HYDRO	46	46	42	42	52	54	62	50	56	46	44	62	51	42	50
6 INDEPENDENT HYDRO	37	38	31	34	35	37	38	36	40	44	44	42	41	40	38
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
10 RESTORATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL HYDRO	81	82	71	74	85	89	98	84	94	88	86	102	90	80	86
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	49	49	49	49	49	49	49	49	49	49	49	32	44	49	47
20 NON-UTILITY GENERATION	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
21 TOTAL RESOURCES	142	143	132	135	146	150	159	145	155	149	147	146	146	141	145
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	142	143	132	135	146	150	159	145	155	149	147	146	146	141	145
26 SURPLUS/DEFICIT	-3393	-3392	-3200	-3298	-3814	-4213	-4373	-4107	-3738	-3504	-3506	-3368	-3291	-3473	-3648
27 DEDICATED RESOURCES	71	72	76	79	90	94	103	89	99	93	91	107	78	66	87
28 BPA PWR SLE CNTRCT PURCH	3446	3445	3253	3351	3867	4266	4426	4160	3791	3557	3559	3404	3339	3526	3699
29 SURPLUS/DEFICIT W/PURCHASE	53	53	53	53	53	53	53	53	53	53	53	36	48	53	51
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	53	53	53	53	53	53	53	53	53	53	53	36	48	53	51
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	53	53	53	53	53	53	53	53	53	53	53	36	48	53	51

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TABLE U-18

GENERATING PUBLIC AGENCIES
LOADS AND RESOURCES

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	3361	3361	3365	3721	4225	4477	4671	4430	4208	3905	3905	3580	3438	3374	3896
2 EXPORTS	60	60	100	82	40	29	20	24	32	41	41	41	72	72	51
3 CONTRACTS OUT	167	167	70	101	51	55	55	52	53	54	54	56	65	163	78
4 TOTAL LOADS	3588	3588	3535	3904	4316	4561	4746	4506	4293	4000	4000	3677	3575	3609	4026
RESOURCES															
5 REGULATED HYDRO	1295	1220	1346	1646	1620	1781	1792	1675	1589	1632	1848	1751	1579	1453	1602
6 INDEPENDENT HYDRO	37	37	37	41	31	37	49	132	62	70	70	54	54	37	53
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-18	-18	-18	-18	-18	-18	-18	-18	-18	-17	-17	-17	-17	-17	-18
9 CAN. ENT. RETURN CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11 TOTAL HYDRO	1316	1241	1367	1671	1635	1802	1825	1791	1635	1687	1903	1790	1618	1475	1640
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	102	102	102	102	102	102	102	102	102	98	98	98	98	98	101
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
17 IMPORTS	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
18 CONTRACTS IN	99	99	49	99	85	110	109	111	49	50	49	49	49	49	76
19 LARGE THERMAL	297	297	297	297	297	297	297	297	297	297	297	207	243	297	285
20 NON-UTILITY GENERATION	186	186	115	53	9	9	10	13	35	143	143	234	248	222	106
21 TOTAL RESOURCES	2033	1958	1958	2256	2178	2373	2416	2396	2193	2317	2532	2419	2307	2173	2257
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	-4	-2	-5	-4	0	0	0	-2	-4	-4	-11	-3	0	-3
25 NET RESOURCES	2033	1954	1956	2251	2174	2373	2416	2396	2191	2313	2528	2408	2304	2173	2255
26 SURPLUS/DEFICIT	-1555	-1634	-1579	-1653	-2142	-2188	-2330	-2110	-2102	-1687	-1472	-1269	-1271	-1436	-1771
27 DEDICATED RESOURCES	1797	1728	1800	2069	2020	2197	2222	2217	2067	2152	2368	2231	2117	1993	2080
28 BPA PWR SLE CNTRCT PURCH	1488	1493	1519	1688	2005	2121	2220	2061	1962	1768	1761	1641	1524	1492	1791
29 SURPLUS/DEFICIT W/PURCHASE	-120	-194	-92	20	-137	-67	-110	-49	-144	46	254	323	197	-3	-6
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-120	-194	-92	20	-137	-67	-110	-49	-144	46	254	323	197	-3	-6
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-120	-194	-92	20	-137	-67	-110	-49	-144	46	254	323	197	-3	-6

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TABLE U-18

GENERATING PUBLIC AGENCIES
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

LOADS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 SYSTEM LOADS	3670	3670	3663	4002	4485	4718	5029	4757	4506	4172	4172	3809	3650	3581	4170
2 EXPORTS	92	92	123	105	64	52	43	47	55	73	73	73	104	104	78
3 CONTRACTS OUT	167	167	71	102	52	55	56	53	54	55	55	56	65	164	79
4 TOTAL LOADS	3929	3929	3857	4209	4601	4825	5128	4857	4615	4300	4300	3938	3819	3849	4327

RESOURCES

5 REGULATED HYDRO	1425	1184	1356	1648	1703	1799	1844	1677	1531	1576	1864	1834	1708	1508	1636
6 INDEPENDENT HYDRO	37	37	37	41	31	37	49	132	62	70	70	54	54	37	53
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-13	-13	-13	-13	-13	-13	-13	-13	-13	-5	-5	-5	-5	-5	-10
9 CAN. ENT. RETURN CANADA)	-4	-4	-4	-4	-4	-4	-4	-4	-4	-20	-20	-20	-20	-20	-9
10 RESTORATION	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11 TOTAL HYDRO	1447	1206	1378	1674	1719	1821	1878	1794	1578	1623	1911	1865	1739	1522	1672
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	77	77	77	77	77	77	77	77	77	38	38	38	38	38	64
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	53	53	42	42	42	35	42	42	42	53	53	53	53	46	45
17 IMPORTS	18	18	13	19	59	75	88	97	90	33	33	26	36	24	48
18 CONTRACTS IN	89	90	40	90	75	101	100	101	40	40	40	40	39	39	66
19 LARGE THERMAL	297	297	297	297	297	297	297	297	297	297	297	217	234	297	285
20 NON-UTILITY GENERATION	187	187	116	53	10	9	10	13	35	143	143	234	249	222	107
21 TOTAL RESOURCES	2168	1928	1963	2252	2279	2415	2492	2421	2159	2227	2515	2473	2388	2188	2287
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	-4	-2	-5	-4	0	0	0	-2	-4	-4	-11	-3	0	-3
25 NET RESOURCES	2168	1924	1961	2247	2275	2415	2492	2421	2157	2223	2511	2462	2385	2188	2285
26 SURPLUS/DEFICIT	-1761	-2005	-1896	-1962	-2326	-2410	-2636	-2436	-2458	-2077	-1789	-1476	-1434	-1661	-2043
27 DEDICATED RESOURCES	1932	1696	1815	2074	2110	2220	2277	2223	2014	2062	2351	2283	2200	2014	2104
28 BPA PWR SLE CNTRCT PURCH	1765	1792	1800	1976	2286	2406	2561	2385	2268	2063	2048	1883	1761	1726	2074
29 SURPLUS/DEFICIT W/PURCHASE	-50	-267	-129	-2	-39	-4	-75	-51	-194	-49	224	358	272	6	6
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-50	-267	-129	-2	-39	-4	-75	-51	-194	-49	224	358	272	6	6
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-50	-267	-129	-2	-39	-4	-75	-51	-194	-49	224	358	272	6	6

TABLE U-18

GENERATING PUBLIC AGENCIES
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	3800	3800	3801	4197	4753	5029	5290	5002	4741	4389	4389	4007	3838	3766	4384
2 EXPORTS	92	92	123	105	64	52	43	47	55	73	73	74	104	104	78
3 CONTRACTS OUT	165	164	67	98	47	48	49	47	48	50	50	53	62	62	66
4 TOTAL LOADS	4057	4056	3991	4400	4864	5129	5382	5096	4844	4512	4512	4134	4004	3932	4529
RESOURCES															
5 REGULATED HYDRO	1471	1226	1390	1683	1758	1852	1926	1725	1586	1620	1907	1931	1761	1559	1690
6 INDEPENDENT HYDRO	37	37	37	41	31	37	49	132	62	70	70	54	54	37	53
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN CANADA)	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35
10 RESTORATION	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11 TOTAL HYDRO	1475	1230	1394	1691	1756	1856	1942	1824	1615	1657	1944	1952	1782	1563	1711
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	53	53	42	42	42	35	42	42	42	53	53	53	53	46	45
17 IMPORTS	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
18 CONTRACTS IN	90	90	40	90	50	51	51	50	40	40	40	40	40	40	52
19 LARGE THERMAL	297	297	297	297	297	297	297	297	297	297	297	189	266	297	285
20 NON-UTILITY GENERATION	186	187	116	53	10	9	10	13	35	143	143	234	249	222	107
21 TOTAL RESOURCES	2119	1875	1902	2192	2190	2293	2400	2293	2089	2217	2504	2494	2426	2192	2236
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	-4	-2	-5	-4	0	0	0	-2	-4	-4	-11	-3	0	-3
25 NET RESOURCES	2119	1871	1900	2187	2186	2293	2400	2293	2087	2213	2500	2483	2423	2192	2233
26 SURPLUS/DEFICIT	-1938	-2185	-2091	-2213	-2678	-2836	-2982	-2803	-2757	-2299	-2012	-1651	-1581	-1740	-2296
27 DEDICATED RESOURCES	1898	1655	1769	2030	2084	2194	2279	2191	1990	2064	2352	2309	2244	2018	2091
28 BPA PWR SLE CNTRCT PURCH	1955	1986	1996	2217	2586	2738	2867	2675	2545	2317	2302	2124	1969	1941	2328
29 SURPLUS/DEFICIT W/PURCHASE	-36	-252	-128	-11	-92	-98	-115	-128	-216	-17	255	424	333	142	7
30 EXTREME WEATHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SURPLUS/DEFICIT W/EXTRM WX	-36	-252	-128	-11	-92	-98	-115	-128	-216	-17	255	424	333	142	7
32 BPA POSSIBLE EXTRM WX OBLG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SURPLUS/DEFICIT AFTR BPA OB	-36	-252	-128	-11	-92	-98	-115	-128	-216	-17	255	424	333	142	7

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SECTION IX: Monthly Energy Analysis

MISCELLANEOUS (FOR OYs 1994-95, 1998-99, AND 2003-04)

SECTION IX - MISCELLANEOUS (FOR OYS 1994-95, 1998-99, AND 2003-04)

Monthly Energy Analysis

Section IX: Miscellaneous (for OYs 1994-95, 1998-99 and 2003-04)

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Montana Power Company, Total System	M-2	TA-2-227
Non-Pacific Northwest Utilities Resources	M-3	TA-2-230
Pend Oreille PUD #1 Service to Ponderay Fibre Mill	M-4	TA-2-233

TABLE M-1

COLOCKUM TRANSMISSION COMPANY
LOADS AND RESOURCES

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
LOADS																
1 SYSTEM LOADS	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
RESOURCES																
5 REGULATED HYDRO	159	136	121	123	155	149	178	137	145	129	132	193	110	129	143	143
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
11 TOTAL HYDRO	152	129	114	116	148	142	171	130	138	122	125	186	103	122	136	136
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	175	152	137	139	171	165	194	153	161	145	148	209	126	145	159	159
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	175	152	137	139	171	165	194	153	161	145	148	209	126	145	159	159
26 SURPLUS/DEFICIT	-5	-28	-43	-41	-9	-15	14	-27	-19	-35	-32	29	-54	-35	-21	-21

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TABLE M-1

COLOCKUM TRANSMISSION COMPANY
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
LOADS																
1 SYSTEM LOADS	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
RESOURCES																
5 REGULATED HYDRO	135	131	118	120	148	147	179	141	151	133	130	193	141	126	144	144
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	-4	-4	-4	-4	-4	-4	-4	-4	-4	-2	-2	-2	-2	-2	-3	-3
9 CAN. ENT. RETURN (CANADA)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-5	-5	-5	-5	-5	-2	-2
10 RESTORATION	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
11 TOTAL HYDRO	128	124	111	113	141	140	172	134	144	124	121	184	132	117	136	136
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	151	147	134	136	164	163	195	157	167	147	144	207	155	140	159	159
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	151	147	134	136	164	163	195	157	167	147	144	207	155	140	159	159
26 SURPLUS/DEFICIT	-29	-33	-46	-44	-16	-17	15	-23	-13	-33	-36	27	-25	-40	-21	-21

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TABLE M-1

COLOCKUM TRANSMISSION COMPANY
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
2 EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CONTRACTS OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 TOTAL LOADS	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
RESOURCES															
5 REGULATED HYDRO	135	131	118	120	148	147	179	141	151	133	130	193	141	126	144
6 INDEPENDENT HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
10 RESTORATION	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
11 TOTAL HYDRO	123	119	106	108	136	135	167	129	139	121	118	181	129	114	132
12 SMALL THERMAL & MISC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL RESOURCES	123	119	106	108	136	135	167	129	139	121	118	181	129	114	132
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 NET RESOURCES	123	119	106	108	136	135	167	129	139	121	118	181	129	114	132
26 SURPLUS/DEFICIT	-57	-61	-74	-72	-44	-45	-13	-51	-41	-59	-62	1	-51	-66	-48

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TABLE M-2

MONTANA POWER COMPANY TOTAL LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	942	942	901	932	1009	1067	1080	1032	953	868	868	892	914	988	965
2 EXPORTS	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
3 CONTRACTS OUT	191	191	250	269	250	230	196	196	196	119	119	116	116	191	193
4 TOTAL LOADS	1224	1224	1242	1292	1350	1388	1367	1319	1240	1078	1078	1099	1121	1270	1249
RESOURCES															
5 REGULATED HYDRO	112	147	187	178	144	193	186	193	178	189	218	235	241	168	186
6 INDEPENDENT HYDRO	145	145	144	145	145	145	144	145	146	143	144	144	146	143	145
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	-37	0	0	-3
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11 TOTAL HYDRO	263	298	337	329	295	344	336	344	330	338	368	348	393	317	334
12 SMALL THERMAL & MISC	136	136	136	136	139	139	139	139	136	136	136	136	0	136	126
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEMABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	102	102	102	154	179	204	204	179	154	87	87	49	49	87	129
19 LARGE THERMAL	561	561	561	561	561	561	561	561	561	428	341	357	561	561	529
20 NON-UTILITY GENERATION	36	36	38	39	38	36	36	36	39	42	42	42	88	86	46
21 TOTAL RESOURCES	1098	1133	1174	1219	1211	1283	1275	1259	1220	1031	974	932	1091	1187	1164
22 HYD, SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-2	-2	0	0	0	0	0	0	0	0	0	0	-1	-2	0
25 NET RESOURCES	1096	1131	1174	1219	1211	1283	1275	1259	1220	1031	974	932	1090	1185	1164
26 SURPLUS/DEFICIT	-128	-93	-68	-73	-139	-104	-92	-60	-20	-48	-104	-167	-31	-85	-86

TABLE M-2

MONTANA POWER COMPANY TOTAL
LOADS AND RESOURCES

M E D I U M L O A D S

1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1	958	958	910	946	1023	1074	1081	1033	948	858	858	887	909	1001	969
2	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
3	106	106	106	106	106	106	106	106	106	29	29	106	106	106	100
4	1155	1155	1107	1143	1220	1271	1278	1230	1145	978	978	1084	1106	1198	1160
RESOURCES															
5	218	140	202	188	215	213	207	177	145	168	180	235	241	210	199
6	145	144	144	144	144	145	145	145	145	144	144	144	146	144	145
7	0	0	0	0	0	0	0	0	0	0	0	-34	0	0	-3
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11	369	290	352	338	365	364	358	328	296	318	330	351	393	360	347
12	136	136	136	136	139	139	139	139	139	139	139	139	2	139	127
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	561	561	561	561	561	561	561	561	561	428	341	357	561	561	529
20	83	83	85	86	84	83	83	83	85	88	88	88	88	86	85
21	1149	1070	1134	1121	1149	1146	1140	1110	1081	973	898	935	1044	1146	1088
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	-2	-2	0	0	0	0	0	0	0	0	0	0	-1	-2	0
25	1147	1068	1134	1121	1149	1146	1140	1110	1081	973	898	935	1043	1144	1087
26	-9	-88	27	-22	-72	-124	-138	-120	-64	-6	-80	-149	-63	-54	-72

TABLE M-2

MONTANA POWER COMPANY TOTAL
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
LOADS															
1 SYSTEM LOADS	966	966	913	950	1028	1076	1101	1053	962	871	871	904	929	1029	982
2 EXPORTS	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
3 CONTRACTS OUT	77	77	77	77	77	77	77	77	77	0	0	77	77	77	71
4 TOTAL LOADS	1134	1134	1081	1118	1196	1244	1269	1221	1130	962	962	1072	1097	1197	1144
RESOURCES															
5 REGULATED HYDRO	218	140	202	188	215	213	207	177	145	168	180	235	241	210	199
6 INDEPENDENT HYDRO	145	144	144	144	144	145	145	145	145	144	144	144	146	144	145
7 MAY WATER BUDGET	0	0	0	0	0	0	0	0	0	0	0	-17	0	0	-1
8 CAN. ENT. RETURN (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 CAN. ENT. RETURN (CANADA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RESTORATION	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11 TOTAL HYDRO	369	290	352	338	365	364	358	328	296	318	330	368	393	360	348
12 SMALL THERMAL & MISC	139	139	136	136	139	139	139	139	139	139	139	139	2	139	127
13 COMBUSTION TURBINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RENEWABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 COGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 LARGE THERMAL	561	561	561	561	561	561	561	561	561	428	341	357	561	561	529
20 NON-UTILITY GENERATION	83	83	85	86	84	83	83	83	85	88	88	88	88	86	85
21 TOTAL RESOURCES	1151	1072	1134	1121	1149	1146	1140	1110	1081	973	898	952	1044	1146	1089
22 HYD,SM THRM & MISC RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 LARGE THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 HYDRO MAINTENANCE	-2	-2	0	0	0	0	0	0	0	0	0	0	-1	-2	0
25 NET RESOURCES	1149	1070	1134	1121	1149	1146	1140	1110	1081	973	898	952	1043	1144	1089
26 SURPLUS/DEFICIT	15	-64	52	3	-47	-98	-129	-110	-49	11	-64	-120	-54	-54	-55

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TABLE M-3

NON-NORTHWEST UTILITY TRANSACTIONS
LOADS AND RESOURCES

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1990 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

COGENERATION

1 WAPA PURCH OF LONGVIEW FIBRE

THERMAL

2 SDG&E SHARE OF BOARDMAN

3 TURLOCK SHARE OF BOARDMAN

4 TOTAL

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
1 WAPA PURCH OF LONGVIEW FIBRE	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
2 SDG&E SHARE OF BOARDMAN	62	62	62	62	62	62	62	62	62	62	62	4	33	62	55	
3 TURLOCK SHARE OF BOARDMAN	44	44	44	44	44	44	44	44	44	44	44	3	23	44	39	
4 TOTAL	142	142	142	142	142	142	142	142	142	142	142	43	92	142	130	

TABLE M-3

NON-NORTHWEST UTILITY TRANSACTIONS
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
COGENERATION															
1 WAPA PURCH OF LONGVIEW FIBRE	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
THERMAL															
2 SDG&E SHARE OF BOARDMAN	62	62	62	62	62	62	62	62	62	62	62	4	33	62	55
3 TURLOCK SHARE OF BOARDMAN	44	44	44	44	44	44	44	44	44	44	44	3	23	44	39
4 TOTAL	142	142	142	142	142	142	142	142	142	142	142	43	92	142	130

TABLE M-3

NON-NORTHWEST UTILITY TRANSACTIONS
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
COGENERATION															
1 WAPA PURCH OF LONGVIEW FIBRE	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
THERMAL															
2 SDG&E SHARE OF BOARDMAN	62	62	62	62	62	62	62	62	62	62	62	4	33	62	55
3 TURLOCK SHARE OF BOARDMAN	44	44	44	44	44	44	44	44	44	44	44	3	23	44	39
4 TOTAL	142	142	142	142	142	142	142	142	142	142	142	43	92	142	130

TABLE M-4

PEND OREILLE COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
RESOURCES AVAILABLE TO SERVE LOAD															
1 BOX CANYON	39	32	39	39	39	39	39	39	39	39	39	39	39	39	39
2 SEATTLE TO P.O. (BOUNDARY)	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
3 TOTAL RESOURCES	62	55	62	62	62	62	62	62	62	62	62	62	62	62	62
4 PONDERAY FIBRE MILL	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
5 SURPLUS	0	-7	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE M-4

PEND OREILLE COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

RESOURCES AVAILABLE TO SERVE LOAD

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 BOX CANYON	36	29	35	35	35	35	35	35	35	35	35	35	36	36	35
2 SEATTLE TO P.O. (BOUNDARY)	26	27	27	27	27	27	27	27	27	27	27	27	26	26	27
3 TOTAL RESOURCES	62	56	62	62	62	62	62	62	62	62	62	62	62	62	62
4 PONDERAY FIBRE MILL	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
5 SURPLUS	0	-6	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE M-4

PEND OREILLE COUNTY PUD #1
LOADS AND RESOURCES

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

RESOURCES AVAILABLE TO SERVE LOAD

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
1 BOX CANYON	32	29	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2 SEATTLE TO P.O. (BOUNDARY)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
3 TOTAL RESOURCES	62	59	62	62	62	62	62	62	62	62	62	62	62	62	62	62
4 PONDERAY FIBRE MILL	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
5 SURPLUS	0	-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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SECTION X: Monthly Energy Analysis

SUPPORTING TABLES (FOR OYs 1994-95, 1998-99, AND 2003-04)

SECTION X - SUPPORTING TABLES (FOR OYS 1994-95, 1998-99, AND 2003-04)

Monthly Energy Analysis

Section X: Supporting Tables (for OYs 1994-95, 1998-99, and 2003-04)

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MEDIUM LOADS
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

FIRM LOADS

1A FEDERAL AGENCIES	152	152	145	149	153	169	163	164	157	149	149	143	142	151	153
1B FEDERAL + GEN PUB LOSSES	143	143	137	151	191	222	232	211	184	163	163	145	141	141	172
1C USBR	161	161	108	42	2	2	2	2	4	50	50	117	151	168	67
1D DSI ALUMINUM FIRM	2033	2033	2033	2033	2033	2033	2011	2011	2011	2011	2011	2011	2011	1998	2019
1E DSI NON-ALUMINUM FIRM	151	151	151	164	164	157	172	187	187	187	187	194	194	187	175
1F DSI FIRM LOSSES	57	57	57	59	64	68	68	68	64	61	61	60	60	57	62
1 BPA NON UTILITY LOADS	2697	2697	2631	2598	2607	2651	2648	2643	2607	2621	2621	2670	2699	2702	2648

2 CHELAN COUNTY PUD #1	176	176	173	187	207	220	227	211	198	183	183	175	173	179	192
3 COLOCKUM TRANSMISSION CO.	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
4 COWLITZ COUNTY PUD #1	492	492	484	516	549	556	585	570	561	542	542	518	498	504	531
5 DOUGLAS COUNTY PUD #1	67	67	66	71	80	86	96	87	77	69	69	66	67	68	75
6 EUGENE WATER & ELEC BOARD	236	236	254	282	338	368	376	356	327	293	293	270	249	244	299
7 GRANT COUNTY PUD #2	341	341	291	281	276	313	342	313	287	295	295	322	357	333	313
8 IDAHO POWER COMPANY	1641	1641	1389	1332	1411	1549	1604	1548	1370	1339	1339	1559	1794	1869	1534
9 MONTANA POWER CO. REGIONAL	329	329	315	326	353	373	378	361	333	304	304	312	320	346	337
10 PACIFIC POWER & LIGHT	2136	2136	2103	2126	2347	2560	2717	2569	2361	2256	2256	2119	2113	2110	2293
11 PEND OREILLE COUNTY PUD #1	90	90	89	95	100	106	109	99	103	99	99	94	92	90	97
12 PORTLAND GENERAL ELECTRIC	1843	1843	1860	1965	2185	2330	2382	2198	2133	1988	1988	1864	1823	1809	2032
13 PUGET SOUND POWER & LIGHT	1980	1980	2019	2265	2642	2938	3154	2963	2808	2461	2461	2215	2122	1994	2463
14 SEATTLE CITY LIGHT	906	906	910	1053	1186	1244	1300	1189	1203	1092	1092	965	914	918	1073
15 SMALL & NON GEN PUBLICS	3132	3132	2962	3046	3513	3871	3991	3757	3443	3260	3260	3148	3071	3222	3368
16 SNOHOMISH COUNTY PUD #1	498	498	537	606	759	806	859	855	735	672	672	577	534	489	661
17 TACOMA PUBLIC UTILITIES	555	555	561	630	730	778	777	750	717	660	660	593	554	549	654
18 UTAH POWER & LIGHT	418	418	357	354	344	390	355	370	332	298	298	373	485	576	388
19 WASHINGTON WATER POWER	803	803	799	863	973	1052	1106	1041	949	869	869	810	792	794	904

20 REGIONAL FIRM LOADS	18520	18520	17980	18776	20780	22371	23186	22060	20724	19481	19481	18830	18837	18976	20043
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REGIONAL FIRM LOADS

21 FEDERAL SYSTEM	2697	2697	2631	2598	2607	2651	2648	2643	2607	2621	2621	2670	2699	2702	2648
22 PUBLIC AGENCIES W/COLOCKUM	6673	6673	6507	6947	7918	8528	8842	8367	7831	7345	7345	6908	6689	6776	7444
23 PRIVATE UTILITIES	9150	9150	8842	9231	10255	11192	11696	11050	10286	9515	9515	9252	9449	9498	9951
24 REGIONAL FIRM LOADS	18520	18520	17980	18776	20780	22371	23186	22060	20724	19481	19481	18830	18837	18976	20043

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TABLE A-1 (CONTINUED)

MEDIUM LOADS
1993 BPA LOAD FORECAST
1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
INTERRUPTIBLE LOADS																
25 DSI ALUMINUM TOP QUARTILE	338	338	338	338	338	338	671	671	671	671	671	671	671	666	532	
26 DSI NON-ALUM TOP QUARTILE	50	50	50	55	55	52	57	62	62	62	62	65	65	62	58	
27 OTHER INTERRUPTIBLE (UTAH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28 DSI TOP QUARTILE LOSSES	10	10	10	11	11	12	23	23	21	21	21	20	20	19	17	
29 REGIONAL INTERRUPT. LOADS	398	398	398	403	404	402	750	755	754	753	753	755	755	747	606	
REGIONAL INTERRUPTIBLE LOADS																
30 FEDERAL SYSTEM	398	398	398	403	404	402	750	755	754	753	753	755	755	747	606	
31 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33 REGIONAL INTERRUPT. LOADS	398	398	398	403	404	402	750	755	754	753	753	755	755	747	606	
REGIONAL TOTAL LOADS																
34 FEDERAL SYSTEM	3095	3095	3029	3001	3011	3053	3398	3398	3361	3374	3374	3425	3454	3449	3254	
35 PUBLIC AGENCIES	6673	6673	6507	6947	7918	8528	8842	8367	7831	7345	7345	6908	6689	6776	7444	
36 PRIVATE UTILITIES	9150	9150	8842	9231	10255	11192	11696	11050	10286	9515	9515	9252	9449	9498	9951	
37 REGIONAL TOTAL LOADS	18918	18918	18378	19179	21184	22773	23936	22815	21478	20234	20234	19585	19592	19723	20650	

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TABLE A-1

SHEET 1 OF 2

MEDIUM LOADS
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
FIRM LOADS														
1A FEDERAL AGENCIES	156	156	149	152	157	173	167	168	160	152	152	147	145	155
1B FEDERAL + GEN PUB LOSSES	142	142	135	151	195	227	239	218	188	164	164	146	142	139
1C USBR	161	161	109	42	2	2	2	2	4	50	50	117	151	168
1D DSI ALUMINUM FIRM	1810	1810	1810	1810	1810	1810	1808	1808	1808	1806	1806	1806	1806	1805
1E DSI NON-ALUMINUM FIRM	210	210	208	207	206	180	186	201	200	198	198	197	195	186
1F DSI FIRM LOSSES	53	53	52	54	58	62	62	62	58	56	56	54	54	52
1 BPA NON UTILITY LOADS	2532	2532	2463	2416	2428	2454	2464	2459	2418	2426	2426	2467	2493	2505
2 CHELAN COUNTY PUD #1	200	200	196	209	230	245	259	240	223	205	205	194	192	198
3 COLOCKUM TRANSMISSION CO.	180	180	180	180	180	180	180	180	180	180	180	180	180	180
4 COWLITZ COUNTY PUD #1	537	537	527	553	578	579	617	601	589	571	571	544	523	531
5 DOUGLAS COUNTY PUD #1	70	70	69	73	82	88	101	91	80	70	70	68	68	70
6 EUGENE WATER & ELEC BOARD	259	259	277	305	360	388	408	386	353	316	316	290	267	259
7 GRANT COUNTY PUD #2	372	372	317	302	292	329	365	332	305	312	312	340	376	353
8 IDAHO POWER COMPANY	1757	1757	1495	1444	1538	1677	1734	1673	1479	1435	1435	1659	1901	1981
9 MONTANA POWER CO. REGIONAL	335	335	318	331	358	375	378	361	331	300	300	310	318	350
10 PACIFIC POWER & LIGHT	2324	2324	2291	2314	2556	2793	2951	2796	2571	2455	2455	2303	2297	2293
11 PEND OREILLE COUNTY PUD #1	95	95	93	99	102	108	114	103	107	102	102	97	94	94
12 PORTLAND GENERAL ELECTRIC	1811	1811	1826	1933	2154	2290	2346	2159	2094	1945	1945	1818	1773	1768
13 PUGET SOUND POWER & LIGHT	2198	2198	2243	2516	2933	3263	3465	3255	3085	2704	2704	2434	2331	2190
14 SEATTLE CITY LIGHT	988	988	990	1131	1255	1305	1409	1286	1299	1178	1178	1037	981	976
15 SMALL & NON GEN PUBLICS	3371	3371	3199	3275	3732	4083	4306	4040	3699	3470	3470	3338	3249	3415
16 SNOHOMISH COUNTY PUD #1	547	547	587	654	809	851	912	905	777	710	710	607	561	522
17 TACOMA PUBLIC UTILITIES	602	602	607	676	777	825	844	813	773	708	708	632	588	578
18 UTAH POWER & LIGHT	437	437	379	379	373	423	387	405	363	327	327	400	509	597
19 WASHINGTON WATER POWER	827	827	817	872	976	1052	1110	1047	954	876	876	821	808	813
20 REGIONAL FIRM LOADS	19442	19442	18874	19662	21713	23308	24350	23132	21680	20290	20290	19539	19509	19673
REGIONAL FIRM LOADS														
21 FEDERAL SYSTEM	2532	2532	2463	2416	2428	2454	2464	2459	2418	2426	2426	2467	2493	2505
22 PUBLIC AGENCIES W/COLOCKUM	7221	7221	7042	7457	8397	8981	9515	8977	8385	7822	7822	7327	7079	7176
23 PRIVATE UTILITIES	9689	9689	9369	9789	10888	11873	12371	11696	10877	10042	10042	9745	9937	9992
24 REGIONAL FIRM LOADS	19442	19442	18874	19662	21713	23308	24350	23132	21680	20290	20290	19539	19509	19673

TABLE A-1 (CONTINUED)

MEDIUM LOADS
1993 BPA LOAD FORECAST
1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
INTERRUPTIBLE LOADS	603	603	603	603	603	603	603	603	603	602	602	602	602	602	603
25 DSI ALUMINUM TOP QUARTILE	70	70	70	69	69	60	62	67	67	66	66	66	65	62	66
26 DSI NON-ALUM TOP QUARTILE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 OTHER INTERRUPTIBLE (UTAH)	18	18	18	18	20	21	21	21	19	19	19	18	18	17	19
28 DSI TOP QUARTILE LOSSES	691	691	690	691	691	684	685	691	689	687	687	686	685	681	687
29 REGIONAL INTERRUPT. LOADS	691	691	690	691	691	684	685	691	689	687	687	686	685	681	687
REGIONAL INTERRUPTIBLE LOADS	691	691	690	691	691	684	685	691	689	687	687	686	685	681	687
30 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 PRIVATE UTILITIES	691	691	690	691	691	684	685	691	689	687	687	686	685	681	687
33 REGIONAL INTERRUPT. LOADS	691	691	690	691	691	684	685	691	689	687	687	686	685	681	687
REGIONAL TOTAL LOADS	3223	3223	3153	3107	3119	3138	3149	3150	3107	3113	3113	3153	3178	3186	3148
34 FEDERAL SYSTEM	7221	7221	7042	7457	8397	8981	9515	8977	8385	7822	7822	7327	7079	7176	7948
35 PUBLIC AGENCIES	9689	9689	9369	9789	10888	11873	12371	11696	10877	10042	10042	9745	9937	9992	10522
36 PRIVATE UTILITIES	20133	20133	19564	20353	22404	23992	25035	23823	22369	20977	20977	20225	20194	20354	21618
37 REGIONAL TOTAL LOADS	20133	20133	19564	20353	22404	23992	25035	23823	22369	20977	20977	20225	20194	20354	21618

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TABLE A-1

MEDIUM LOADS
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

FIRM LOADS

1A FEDERAL AGENCIES	160	160	153	156	161	179	172	174	165	156	156	150	149	159	161
1B FEDERAL + GEN PUB LOSSES	147	147	139	153	204	238	249	226	192	173	173	155	149	147	181
1C USBR	162	162	109	42	2	2	2	2	4	50	50	118	152	169	68
1D DSI ALUMINUM FIRM	1646	1646	1646	1646	1646	1646	1637	1637	1637	1637	1637	1636	1636	1635	1640
1E DSI NON-ALUMINUM FIRM	166	166	166	166	166	142	149	166	166	166	166	166	166	158	162
1F DSI FIRM LOSSES	47	47	47	49	53	55	56	56	52	50	50	49	49	47	51

1 BPA NON UTILITY LOADS	2328	2328	2260	2212	2232	2262	2265	2261	2216	2232	2232	2274	2301	2315	2263
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2 CHELAN COUNTY PUD #1	213	213	210	227	253	272	283	261	242	221	221	210	206	216	234
3 COLOCKUM TRANSMISSION CO.	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
4 COWLITZ COUNTY PUD #1	559	559	550	580	611	614	643	628	616	597	597	570	550	561	590
5 DOUGLAS COUNTY PUD #1	72	72	70	76	87	94	107	96	83	72	72	69	70	74	81
6 EUGENE WATER & ELEC BOARD	269	269	287	320	381	413	427	403	370	332	332	304	279	272	338
7 GRANT COUNTY PUD #2	386	386	330	316	310	350	382	348	320	328	328	357	396	371	349
8 IDAHO POWER COMPANY	1868	1868	1596	1553	1658	1801	1859	1740	1583	1526	1526	1750	1996	2084	1751
9 MONTANA POWER CO. REGIONAL	338	338	319	332	359	376	385	368	336	305	305	316	325	360	343
10 PACIFIC POWER & LIGHT	2526	2526	2497	2520	2772	3023	3179	3020	2777	2654	2654	2490	2483	2480	2702
11 PEND OREILLE COUNTY PUD #1	98	98	96	104	109	117	121	109	113	108	108	102	99	98	106
12 PORTLAND GENERAL ELECTRIC	1890	1890	1905	2013	2239	2402	2467	2271	2202	2053	2053	1922	1877	1874	2093
13 PUGET SOUND POWER & LIGHT	2384	2384	2432	2729	3182	3539	3739	3511	3328	2917	2917	2625	2515	2362	2939
14 SEATTLE CITY LIGHT	1021	1021	1024	1182	1324	1384	1480	1350	1366	1239	1239	1093	1032	1021	1210
15 SMALL & NON GEN PUBLICS	3517	3517	3329	3430	3957	4360	4529	4249	3890	3650	3650	3511	3417	3592	3786
16 SNOHOMISH COUNTY PUD #1	566	566	611	687	857	906	954	947	814	745	745	637	589	549	738
17 TACOMA PUBLIC UTILITIES	616	616	623	705	821	879	893	860	817	747	747	665	617	604	737
18 UTAH POWER & LIGHT	476	476	421	422	419	473	424	447	398	358	358	438	554	645	456
19 WASHINGTON WATER POWER	834	834	823	881	991	1070	1131	1066	972	890	890	832	818	822	927

20 REGIONAL FIRM LOADS	20141	20141	19563	20469	22742	24515	25448	24115	22623	21154	21154	20345	20304	20480	21825
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REGIONAL FIRM LOADS

21 FEDERAL SYSTEM	2328	2328	2260	2212	2232	2262	2265	2261	2216	2232	2232	2274	2301	2315	2263
22 PUBLIC AGENCIES W/COLOCKUM	7497	7497	7310	7807	8890	9569	9999	9431	8811	8219	8219	7698	7435	7538	8350
23 PRIVATE UTILITIES	10316	10316	9993	10450	11620	12684	13184	12423	11596	10703	10703	10373	10568	10627	11211

24 REGIONAL FIRM LOADS	20141	20141	19563	20469	22742	24515	25448	24115	22623	21154	21154	20345	20304	20480	21825
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TABLE A-1 (CONTINUED)

MEDIUM LOADS
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
INTERRUPTIBLE LOADS															
25 DSI ALUMINUM TOP QUARTILE	549	549	549	549	549	549	546	546	546	546	546	546	546	545	547
26 DSI NON-ALUM TOP QUARTILE	55	55	55	55	55	47	50	55	55	55	55	55	55	53	54
27 OTHER INTERRUPTIBLE (UTAH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 DSI TOP QUARTILE LOSSES	16	16	16	16	18	19	19	19	17	17	17	16	16	16	17
29 REGIONAL INTERRUPT. LOADS	620	620	620	620	622	615	614	620	618	618	618	617	617	613	618
REGIONAL INTERRUPTIBLE LOADS															
30 FEDERAL SYSTEM	620	620	620	620	622	615	614	620	618	618	618	617	617	613	618
31 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 REGIONAL INTERRUPT. LOADS	620	620	620	620	622	615	614	620	618	618	618	617	617	613	618
REGIONAL TOTAL LOADS															
34 FEDERAL SYSTEM	2948	2948	2880	2832	2854	2877	2879	2881	2834	2850	2850	2891	2918	2928	2881
35 PUBLIC AGENCIES	7497	7497	7310	7807	8890	9569	9999	9431	8811	8219	8219	7698	7435	7538	8350
36 PRIVATE UTILITIES	10316	10316	9993	10450	11620	12684	13184	12423	11596	10703	10703	10373	10568	10627	11211
37 REGIONAL TOTAL LOADS	20761	20761	20183	21089	23364	25130	26062	24735	23241	21772	21772	20962	20921	21093	22443

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TABLE A-2

EXPORTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR														
	AUG 1-15 16-31	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15 16-30	APR 16-30	MAY	JUN	JUL	
EXPORTS TO EAST															
1 CITYIDFL TO UT, GEM ST HYD	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4
2 EXPORTS TO EAST	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4
INTRA-COMPANY TRANSFERS TO PSM															
3 PP&L TO PP&L N. CALIF.	65	65	20	1	-7	-12	-15	-28	-37	-29	-29	1	58	85	8
4 INTRA-CO TRANSFERS TO PSM	65	65	20	1	-7	-12	-16	-28	-37	-29	-29	1	58	85	8
EXPORTS TO PSM															
5 BPA TO ANAHEIM C/NX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA TO ANAHEIM CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA TO BURBANK PWR S,C/NX	26	26	25	16	11	11	11	10	10	11	11	18	23	25	16
8 BPA TO GLENDALE PWR S,C/NX	14	14	13	6	5	6	6	5	5	6	6	9	12	13	8
9 BPA TO MSR PWR S,C/NX	75	75	79	76	51	35	36	30	30	30	30	31	52	76	50
10 BPA TO PASADENA PWR S,C/NX	5	5	5	4	2	2	2	2	2	2	2	4	4	5	3
11 BPA TO RIVERSIDE C/NX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 BPA TO RIVERSIDE CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BPA TO SDG&E PWR X,C/NX	118	118	118	0	0	0	0	0	0	0	0	127	127	118	51
14 BPA TO SMUD PWR X,C/NX	14	14	14	0	0	0	0	0	0	0	0	21	21	14	7
15 BPA TO SCE PWR S&C/NX	131	131	131	131	145	137	137	135	136	131	131	131	131	131	134
16 BPA TO SCE OPT CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 BPA NH-SW INTERTIE LOSSES	11	11	12	7	7	6	6	5	5	5	5	10	11	11	8
18 IPC TO SIERRA PAC PWR S1	12	12	12	12	11	11	12	12	11	11	11	12	11	11	11
19 IPC TO SIERRA PAC PWR S2	40	40	39	40	39	48	54	47	51	39	39	39	40	39	43
20 IPC TO UAMPS PWR S	53	53	48	45	42	49	50	47	39	45	45	42	45	52	46
21 IPC TO AZUSA, BAN, CLTN PWR S	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
22 IPC TO CTY OF WASH, UT PWR S	3	3	2	2	3	4	4	4	3	3	3	3	3	3	3
23 MPC TO LADWP PWR S	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
24 PP&L TO CDWR PWR S	78	78	73	69	67	71	74	72	67	62	62	66	70	79	71
25 PP&L TO PG&E PWR S	29	29	28	28	29	28	29	29	29	28	28	29	29	29	29
26 PP&L TO SMUD PWR S	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
27 PP&L TO SCE PWR S	58	58	58	58	58	58	58	58	58	54	54	54	54	58	57
28 PP&L TO WAPA PWR S	205	205	204	186	185	193	188	148	185	182	182	185	204	204	189
29 PGE TO BURBANK PWR S	9	9	10	7	7	7	7	7	7	7	7	7	10	9	8
30 PGE TO GLENDALE PWR S	20	20	19	12	13	12	12	13	12	13	13	12	19	20	15
31 PGE TO SCE PWR S	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
32 PGE TO SCE SPX	103	103	102	0	0	0	0	0	0	0	0	0	103	103	34
33 PGE TO WAPA PWR S	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
34 PSP&L TO PG&E SPX	141	141	141	0	0	0	0	0	0	0	0	0	141	141	47
35 SCL TO NCPA SPX	19	19	31	15	0	0	0	0	0	0	0	0	31	31	0
36 SNOH TO SMUD PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 TCL TO WAPA PWR S	41	41	69	67	40	29	20	24	32	41	41	41	41	41	40
38 WWP TO PG&E SPX	72	72	72	0	0	0	0	0	0	0	0	0	72	72	25

TABLE A-2

EXPORTS

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
THE FOLLOWING RESOURCES ARE OWNED BY UTILITIES OUTSIDE THE PACIFIC NORTHWEST															
39 BOARDMAN(14.2%) TO SDG&E *	62	62	62	62	62	62	62	62	62	62	62	4	33	62	55
40 BOARDMAN(10.2%) TO TURLOCK*	43	43	43	43	43	43	43	43	43	43	43	3	23	43	38
41 LONGVIEW FIBRE TO WAPA *	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
42 TOTAL	141	141	141	141	141	141	141	141	141	141	141	43	92	141	129
43 EXPORTS TO PSW	1680	1680	1708	1184	1118	1109	1109	1051	1085	1073	1073	1154	1608	1688	1297
EXPORTS TO CANADA															
44 BPA CAN. ENT. TO BC HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 EXPORTS TO CANADA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 TOTAL EXPORTS	1760	1760	1728	1185	1111	1097	1094	1023	1048	1044	1044	1155	1683	1791	1310
TOTAL EXPORTS															
47 FEDERAL SYSTEM	394	394	397	240	221	196	198	187	188	185	185	351	381	393	278
48 PUBLIC AGENCIES	75	75	100	82	40	29	20	24	32	41	41	41	89	91	55
49 PRIVATE UTILITIES	1150	1150	1090	722	709	731	735	671	687	677	677	720	1121	1167	848
50 NON-NORTHWEST UTILITIES *	141	141	141	141	141	141	141	141	141	141	141	43	92	141	129
51 TOTAL EXPORTS	1760	1760	1728	1185	1111	1097	1094	1023	1048	1044	1044	1155	1683	1792	1310

NOTE: 1. THE FOLLOWING BPA CONTRACTS ARE SHOWN ASSURPLUS FIRM POWER SALES UNTIL THEY EXPIRE. IN ACTUAL OPERATION, THESE CONTRACTS MAY CONVERT ANNUALLY, ON AN INDIVIDUAL BASIS, TO CAPACITY/ENERGY EXCHANGES TO MEET LOADS.

- A. BPA TO BGP, POWER SALE & CAPACITY/ENERGY EXCHANGE
- B. BPA TO MSR, POWER SALE & CAPACITY/ENERGY EXCHANGE
- C. BPA TO SCE, POWER SALE & CAPACITY/ENERGY EXCHANGE

2. BPA OPTION CAPACITY SALE TO SCE IS INCLUDED THROUGH OY 1996-97

EXPORTS

1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR												JUL		
	AUG 1-15 16-31	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15 16-30	APR 16-30	MAY		JUN	
EXPORTS TO EAST	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4
1 CITYIDFL TO UT, GEM ST HYD	15	15	0	0	0	0	0	0	0	0	0	0	17	19	4
2 EXPORTS TO EAST	68	68	22	3	-4	-9	-12	-24	-34	-26	-26	4	61	89	11
INTRA-COMPANY TRANSFERS TO PSH	68	68	22	3	-4	-9	-12	-24	-34	-26	-26	4	61	89	11
3 PP&L TO PP&L N. CALIF.	68	68	22	3	-4	-9	-12	-24	-34	-26	-26	4	61	89	11
4 INTRA-CO TRANSFERS TO PSM	68	68	22	3	-4	-9	-12	-24	-34	-26	-26	4	61	89	11
EXPORTS TO PSH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO ANAHEIM C/NX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA TO ANAHEIM CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA TO BURBANK PWR S,C/NX	26	26	24	16	11	11	11	10	10	11	11	18	23	25	16
8 BPA TO GLENDALE PWR S,C/NX	14	14	13	6	5	5	6	5	5	6	6	9	12	13	8
9 BPA TO MSR PWR S,C/NX	112	112	119	114	77	53	54	45	45	45	43	47	78	115	75
10 BPA TO PASADENA PWR S,C/NX	5	5	5	4	2	2	2	2	2	2	2	4	4	5	3
11 BPA TO RIVERSIDE C/NX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 BPA TO RIVERSIDE CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BPA TO SDG&E PWR X,C/NX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 BPA TO SMUD PWR X,C/NX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 BPA TO SCE PWR S&C/NX	131	131	131	131	145	137	137	135	136	131	131	131	131	131	134
16 BPA TO SCE OPT CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 BPA NM-SW INTERTIE LOSSES	9	9	9	8	7	6	6	6	6	6	6	6	8	9	7
18 IPC TO SIERRA PAC PWR S1	12	12	12	12	11	11	12	12	11	11	11	12	11	11	11
19 IPC TO SIERRA PAC PWR S2	40	40	40	40	41	49	60	52	56	43	43	43	45	45	39
20 IPC TO UAMPS PWR S	53	53	48	45	42	49	50	48	39	38	38	42	45	52	46
21 IPC TO AZUSA,BAN,CLTN PWR S	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
22 IPC TO CTY OF WASH,UT PWR S	3	3	3	2	3	4	5	4	3	3	3	3	3	4	3
23 MPC TO LADMP PWR S	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
24 PP&L TO CDMR PWR S	78	78	73	69	67	71	74	72	67	62	62	66	70	79	71
25 PP&L TO PG&E PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 PP&L TO SMUD PWR S	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
27 PP&L TO SCE PWR S	58	58	58	58	58	58	58	58	58	54	54	54	54	58	57
28 PP&L TO WAPA PWR S	205	205	204	186	185	193	188	148	185	182	182	185	204	204	189
29 PGE TO BURBANK PWR S	9	9	10	7	7	7	7	7	7	7	7	7	10	9	8
30 PGE TO GLENDALE PWR S	20	20	19	12	13	12	12	13	12	13	13	12	19	20	15
31 PGE TO SCE PWR S	103	103	60	60	60	60	60	60	60	60	60	60	60	60	60
32 PGE TO SCE SPX	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
33 PGE TO WAPA SPX	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141
34 PSP&L TO PG&E SPX	19	19	15	15	15	15	15	15	15	15	15	15	15	15	15
35 SCL TO NCPA SPX	32	32	23	23	23	23	23	23	23	32	32	32	32	32	27
36 SNOH TO SMUD PWR S	41	41	69	67	41	29	20	24	32	41	41	41	41	41	41
37 TCL TO WAPA PWR S	72	72	72	67	41	29	20	24	32	41	41	41	41	41	41
38 HWP TO PG&E SPX	72	72	72	67	41	29	20	24	32	41	41	41	41	41	25

TABLE A-2

EXPORTS

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR												JUL		
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY			JUN
THE FOLLOWING RESOURCES ARE OWNED BY UTILITIES OUTSIDE THE PACIFIC NORTHWEST															
39 BOARDMAN(14.2%) TO SDG&E *	62	62	62	62	62	62	62	62	62	62	62	4	33	62	55
40 BOARDMAN(10.2%) TO TURLOCK*	43	43	43	43	43	43	43	43	43	43	43	3	23	43	38
41 LONGVIEW FIBRE TO WAPA *	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
42 TOTAL	141	141	141	141	141	141	141	141	141	141	141	43	92	141	129
43 EXPORTS TO PSW	1586	1586	1609	1218	1141	1123	1128	1067	1100	1090	1090	1025	1446	1557	1257
EXPORTS TO CANADA															
44 BPA CAN. ENT. TO BC HYDRO	51	51	51	51	51	51	51	51	51	309	309	309	309	309	137
45 EXPORTS TO CANADA	51	51	51	51	51	51	51	51	51	309	309	309	309	309	137
46 TOTAL EXPORTS	1720	1720	1682	1272	1188	1165	1167	1094	1117	1373	1373	1338	1833	1973	1410
TOTAL EXPORTS															
47 FEDERAL SYSTEM	348	348	352	330	298	265	267	254	255	510	510	524	565	607	381
48 PUBLIC AGENCIES	107	107	123	105	64	52	43	47	55	73	73	73	121	123	82
49 PRIVATE UTILITIES	1124	1124	1066	696	685	707	716	652	666	649	649	698	1055	1103	818
50 NON-NORTHWEST UTILITIES *	141	141	141	141	141	141	141	141	141	141	141	43	92	141	129
51 TOTAL EXPORTS	1720	1720	1682	1272	1188	1165	1167	1094	1117	1373	1373	1338	1833	1974	1410

NOTE: 1. THE FOLLOWING BPA CONTRACTS ARE SHOWN ASSURPLUS FIRM POWER SALES UNTIL THEY EXPIRE. IN ACTUAL OPERATION, THESE CONTRACTS MAY CONVERT ANNUALLY, ON AN INDIVIDUAL BASIS, TO CAPACITY/ENERGY EXCHANGES TO MEET LOADS.

- A. BPA TO BGP, POWER SALE & CAPACITY/ENERGY EXCHANGE
 B. BPA TO MSR, POWER SALE & CAPACITY/ENERGY EXCHANGE
 C. BPA TO SCE, POWER SALE & CAPACITY/ENERGY EXCHANGE

2. BPA OPTION CAPACITY SALE TO SCE IS INCLUDED THROUGH OY 1996-97

EXPORTS

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS	2003- 4 OPERATING YEAR												1993 WHITEBOOK				
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	1993	1994	
EXPORTS TO EAST	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 CITYIDFL TO UT, GEM ST HYD	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 EXPORTS TO EAST	74	74	27	9	1	-2	-5	-19	-29	-20	-20	10	68	96	17	17	4
3 PP&L TO PP&L N. CALIF.	74	74	27	9	1	-2	-5	-19	-29	-20	-20	10	68	96	17	17	4
4 INTRA-CO TRANSFERS TO PSM	74	74	27	9	1	-2	-5	-19	-29	-20	-20	10	68	96	17	17	4
EXPORTS TO PSM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO ANAHEIM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA TO ANAHEIM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA TO BURBANK	26	26	24	16	11	11	11	10	10	11	11	18	23	25	16	16	0
8 BPA TO GLENDALE	14	14	13	6	5	5	6	5	5	6	6	9	12	13	8	8	0
9 BPA TO MSR	112	112	119	114	77	53	54	45	45	45	45	47	78	115	75	75	0
10 BPA TO PASADENA	5	5	5	4	2	2	2	2	2	2	2	4	4	5	3	3	0
11 BPA TO RIVERSIDE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 BPA TO RIVERSIDE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BPA TO SDG&E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 BPA TO SMUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 BPA TO SCE	131	131	131	131	145	137	137	135	136	131	131	131	131	131	134	134	0
16 BPA TO SCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 BPA NW-SM INTERTIE LOSSES	9	9	9	8	7	6	7	6	6	6	6	6	8	9	0	0	0
18 IPC TO SIERRA PAC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 IPC TO SIERRA PAC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 IPC TO UAMS	53	53	48	45	42	49	0	0	0	0	0	0	0	0	20	20	0
21 IPC TO AZUSA, BAN, CLTN	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0
22 IPC TO CTY OF WASH, UT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 MPC TO LADMP	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	0
24 PP&L TO CDHR	78	78	73	69	67	71	74	72	67	62	62	66	70	79	71	71	0
25 PP&L TO PG&E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 PP&L TO SCE	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	0
27 PP&L TO SCE	58	58	58	58	58	58	58	58	58	54	54	54	54	58	57	57	0
28 PP&L TO WAPA	205	205	204	186	185	193	188	148	185	182	182	185	204	204	189	189	0
29 PGE TO BURBANK	9	9	10	7	7	7	7	7	7	7	7	7	10	9	8	8	0
30 PGE TO GLENDALE	20	20	19	12	13	12	12	13	12	13	13	12	19	20	15	15	0
31 PGE TO SCE	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	0
32 PGE TO SCE	103	103	102	65	65	65	65	65	65	65	65	65	103	102	34	34	0
33 PGE TO WAPA	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	0
34 PSP&L TO PG&E	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	0
35 SCL TO NCPA	19	19	19	15	15	15	15	15	15	15	15	15	31	31	11	11	0
36 SNOH TO SMUD	32	32	23	23	23	23	23	23	23	32	32	33	32	32	27	27	0
37 TCL TO WAPA	41	41	69	67	41	29	20	24	32	41	41	41	41	41	41	41	0
38 WMP TO PG&E	72	72	72	0	0	0	0	0	0	0	0	0	72	72	25	25	0

TABLE A-2

EXPORTS

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
THE FOLLOWING RESOURCES ARE OWNED BY UTILITIES OUTSIDE THE PACIFIC NORTHWEST															
39 BOARDMAN(14.2%) TO SDG&E *	62	62	62	62	62	62	62	62	62	62	62	4	33	62	55
40 BOARDMAN(10.2%) TO TURLOCK*	43	43	43	43	43	43	43	43	43	43	43	3	23	43	38
41 LONGVIEW FIBRE TO WAPA *	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
42 TOTAL	141	141	141	141	141	141	141	141	141	141	141	43	92	141	129
43 EXPORTS TO PSW	1531	1531	1554	1164	1086	1059	1002	951	991	995	995	926	1387	1490	1178
EXPORTS TO CANADA															
44 BPA CAN. ENT. TO BC HYDRO	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530
45 EXPORTS TO CANADA	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530
46 TOTAL EXPORTS	2150	2150	2111	1703	1617	1587	1527	1462	1492	1505	1505	1466	2002	2134	1730
TOTAL EXPORTS															
47 FEDERAL SYSTEM	827	827	831	809	777	744	747	733	734	731	731	745	786	828	774
48 PUBLIC AGENCIES	107	107	123	105	64	52	43	47	55	73	73	74	121	123	82
49 PRIVATE UTILITIES	1075	1075	1016	648	635	650	596	541	562	560	560	604	1003	1043	744
50 NON-NORTHWEST UTILITIES *	141	141	141	141	141	141	141	141	141	141	141	43	92	141	129
51 TOTAL EXPORTS	2150	2150	2111	1703	1617	1587	1527	1462	1492	1505	1505	1466	2002	2135	1730

NOTE: 1. THE FOLLOWING BPA CONTRACTS ARE SHOWN ASSURPLUS FIRM POWER SALES UNTIL THEY EXPIRE.
IN ACTUAL OPERATION, THESE CONTRACTS MAY CONVERT ANNUALLY, ON AN INDIVIDUAL BASIS, TO
CAPACITY/ENERGY EXCHANGES TO MEET LOADS.

- A. BPA TO BGP, POWER SALE & CAPACITY/ENERGY EXCHANGE
- B. BPA TO MSR, POWER SALE & CAPACITY/ENERGY EXCHANGE
- C. BPA TO SCE, POWER SALE & CAPACITY/ENERGY EXCHANGE

2. BPA OPTION CAPACITY SALE TO SCE IS INCLUDED THROUGH OY 1996-97

TABLE A-3

REGULATED HYDRO PROJECTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
REGULATED HYDRO PROJECTS																
1	ALBENI FLS AFTER ENC. FED	28	24	37	38	22	20	18	20	20	6	15	34	39	33	26
2	ALDER TCL	19	16	13	14	13	19	18	20	21	21	24	22	20	19	18
3	BONNEVILLE FED	293	280	464	506	578	620	672	667	640	618	336	430	290	271	492
4	BOUNDARY AFTER ENC. SCL	271	223	352	459	313	341	284	379	344	486	578	579	430	326	382
5	BOX CANYON AFTER ENC. PENDO	43	32	53	65	48	52	44	56	52	68	74	74	61	48	55
6	BROWNLEE ID	126	133	269	254	190	293	311	231	238	230	233	325	195	218	240
7	CABINET GORGE WWP	70	70	82	87	71	101	92	111	103	147	206	192	176	94	113
8	CARMEN-SMITH EUG	17	16	16	14	13	17	17	17	17	17	13	15	17	16	16
9	CHELAN AFTER ENC. CHLN	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
10	CHIEF JOSEPH AFT ENC. FED	1362	1171	1024	1035	1333	1288	1539	1157	1259	1067	1097	1633	825	1055	1208
11	CUSHMAN 1 TCL	3	6	14	23	8	26	2	2	2	2	3	7	4	2	8
12	CUSHMAN 2 TCL	2	7	21	40	13	51	1	0	0	0	1	9	3	0	12
13	DIABLO SCL	45	46	41	70	72	75	83	88	82	65	67	45	93	88	71
14	DWORSHAK FED	94	448	55	91	91	90	90	90	91	93	449	449	212	94	158
15	FARADAY PGE	10	9	9	9	7	30	13	43	20	18	18	21	15	10	17
16	GORGE SCL	53	53	45	78	78	83	91	102	95	80	81	55	107	101	81
17	GRAND COULEE-LDS+TRB FED	2163	1895	1688	1778	2379	2293	2710	2010	2045	1506	1494	2403	1146	1609	1966
18	HELLS CANYON ID	96	100	202	197	146	223	252	191	186	181	181	250	153	166	187
19	HUNGRY HORSE FED	88	218	292	207	111	188	222	61	116	105	0	0	0	78	123
20	ICE HARBOR FED	52	132	135	151	121	183	165	188	224	311	361	379	329	139	203
21	JOHN DAY FED	806	810	730	811	917	958	1084	1005	996	992	1106	1502	852	745	955
22	KERR REGIONAL MPC	30	39	57	50	38	49	42	45	41	45	62	59	50	41	47
23	LA GRANDE TCL	28	24	19	21	21	32	30	32	32	33	37	33	30	28	28
24	LIBBY FED	145	151	203	167	435	263	348	315	141	97	113	63	200	289	223
25	LITTLE FALLS WWP	8	8	14	13	14	14	9	30	27	31	33	34	26	11	19
26	LITTLE GOOSE FED	88	162	138	146	117	176	160	166	207	324	490	519	385	170	226
27	LONG LAKE WWP	21	21	33	30	33	33	21	66	60	69	72	72	62	26	44
28	LOWER BAKER PSP&L	32	26	18	25	30	53	41	53	32	51	51	1	16	41	32
29	LOWER GRANITE FED	98	164	140	148	118	179	162	168	206	331	500	528	393	173	230
30	LOWER MONUMENTAL FED	83	162	133	150	119	183	164	188	223	337	505	529	398	177	234
31	MAYFIELD TCL	30	26	41	56	60	97	97	97	55	58	87	55	55	41	63
32	MCNARY FED	633	613	520	541	654	696	799	718	713	689	774	1089	637	578	692
33	MERWIN PP&L	17	17	44	25	36	60	49	113	73	37	19	22	26	16	42
34	MONROE STREET WWP	5	4	10	9	10	10	3	13	13	13	13	13	13	7	10
35	MOSSY ROCK TCL	56	50	76	92	100	141	129	94	68	81	135	75	90	67	91
36	NINE MILE WWP	5	4	10	9	10	10	3	18	19	23	24	23	18	7	13
37	NORTH FORK PGE	11	10	10	10	8	33	14	53	22	20	21	23	16	11	19
38	NOXON WWP	99	106	125	134	108	156	138	163	150	205	330	297	273	143	171
39	OAK GROVE PGE	34	34	34	34	24	20	17	29	23	26	33	21	34	34	28
40	OXBOW ID	50	51	106	103	76	115	131	97	94	90	90	128	76	86	96
41	PACKWOOD WPPSS	7	7	4	5	5	6	5	13	7	11	1	13	15	9	8
42	PELTON PGE	33	33	38	32	32	51	32	38	37	33	29	35	33	35	36
43	PELTON REREGULATING PP&L	8	8	9	7	7	13	7	9	9	8	7	8	8	8	8
44	POST FALLS WWP	2	2	6	5	6	6	2	14	15	15	15	15	13	4	9
45	PRST RPDS AFTER ENC. GRNT	471	490	439	446	556	533	632	489	520	463	481	483	417	440	492

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TABLE A-3 (CONTINUED)

REGULATED HYDRO

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
REGULATED HYDRO PROJECTS																
46 RIVER MILL	PGE	6	5	5	5	4	17	7	23	12	10	10	12	8	6	10
47 ROCK ISLAND	CHLN	394	347	316	321	385	371	433	346	364	332	342	465	303	340	363
48 RKY REACH AFTER ENC.	CHLN	690	590	527	535	673	646	774	594	631	560	574	838	476	561	622
49 ROSS	SCL	22	33	34	75	78	76	81	72	68	45	52	33	85	74	63
50 ROUND BUTTE	PGE	82	83	94	78	76	128	75	94	92	82	71	87	83	87	88
51 SWIFT 1	PP&L	26	23	35	49	67	59	63	90	64	92	90	0	45	25	51
52 SWIFT 2	COW	7	6	10	16	23	22	24	33	24	33	31	0	13	7	18
53 THE DALLES	FED	661	654	574	628	727	779	860	813	799	785	875	1068	679	613	752
54 THOMPSON FLS REGIONAL	MPC	11	13	15	15	14	13	12	12	12	28	37	31	26	20	18
55 TRAIL BRIDGE	EUG	4	4	4	4	3	4	4	4	4	4	4	4	4	3	4
56 UPPER BAKER	PSP&L	33	26	17	22	27	32	38	45	21	44	43	0	33	42	29
57 UPPER FALLS	WMP	4	4	9	8	9	9	3	10	10	9	9	10	10	6	8
58 WANAPUM AFTER ENC.	GRNT	430	440	384	392	515	489	605	439	474	411	431	459	361	389	447
59 WELLS AFTER ENC.	DGLS	428	379	335	339	431	415	490	371	404	349	330	492	290	327	386
60 WHITE	PSP&L	27	21	13	9	7	31	24	47	38	42	45	23	43	27	27
61 YALE	PP&L	19	17	40	34	50	66	60	113	86	48	13	22	35	21	48
HYDRO EFFICIENCY IMPROVEMENTS																
62 HYDRO EFFICIENCY IMP. FED		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
63 REGULATED HYDRO W/ENC.		10575	10618	10268	10804	12324	13123	14395	12664	12496	12072	13299	16156	10796	10184	12208
TOTAL REGULATED HYDRO W/ENCROACHMENTS																
64 FEDERAL SYSTEM		6646	6936	6182	6447	7772	7967	9043	7624	7732	7317	8161	10684	6445	6078	7542
65 PUBLIC AGENCIES		1505	1405	1511	1813	1831	1981	2032	1861	1784	1806	2023	2000	1728	1624	1795
66 PRIVATE UTILITIES		2424	2277	2575	2544	2721	3175	3320	3179	2980	2949	3115	3472	2623	2482	2871
67 TOTAL REGULATED HYDRO W/ENC		10575	10618	10268	10804	12324	13123	14395	12664	12496	12072	13299	16156	10796	10184	12208
HYDRO INDEPENDENTS (FROM TABLE A-4)																
68 FEDERAL SYSTEM		407	356	321	316	289	342	192	339	242	236	259	346	381	363	313
69 PUBLIC AGENCIES		67	68	61	68	59	67	80	161	95	107	107	89	88	70	84
70 PRIVATE UTILITIES		546	538	529	504	548	673	579	677	629	656	666	630	580	542	591
71 TOTAL HYDRO INDEPENDENTS		1020	962	911	888	896	1082	851	1177	966	999	1032	1065	1049	975	989
TOTAL REGIONAL HYDRO																
72 FEDERAL SYSTEM		7053	7292	6503	6763	8061	8309	9235	7963	7974	7553	8420	11030	6826	6441	7855
73 PUBLIC AGENCIES		1572	1473	1572	1881	1890	2048	2112	2022	1879	1913	2130	2089	1816	1694	1879
74 PRIVATE UTILITIES		2970	2815	3104	3048	3269	3848	3899	3856	3609	3605	3781	4102	3203	3024	3462
75 TOTAL REGIONAL HYDRO		11595	11580	11179	11692	13220	14205	15246	13841	13462	13071	14331	17221	11845	11159	13197

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TABLE A-3

REGULATED HYDRO PROJECTS
1998-99 OPERATING YEAR

SHEET 1 OF 2

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR														
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
REGULATED HYDRO PROJECTS															
1 ALBENI FLS AFTER ENC.	42	22	37	38	25	20	19	20	18	23	20	34	38	38	28
2 ALDER	19	16	13	14	13	19	18	21	21	21	24	22	19	19	18
3 BONNEVILLE	252	272	454	496	557	617	675	677	655	628	333	430	338	265	492
4 BOUNDARY AFTER ENC.	420	205	354	454	391	346	297	334	280	388	589	579	415	377	386
5 BOX CANYON AFTER ENC.	61	29	53	64	58	53	46	51	43	58	74	74	59	54	55
6 BROWNLEE	126	133	269	254	190	293	311	231	238	230	233	325	195	218	240
7 CABINET GORGE	109	64	83	85	97	102	96	96	81	139	190	192	176	111	114
8 CARMEN-SMITH	17	16	16	14	13	17	17	17	17	17	13	15	17	16	16
9 CHELAN AFTER ENC.	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
10 CHIEF JOSEPH AFT ENC.	1142	1124	995	1005	1271	1277	1548	1194	1312	1106	1080	1633	1120	1023	1217
11 CUSHMAN 1	3	6	14	23	8	26	2	2	2	2	3	7	4	2	8
12 CUSHMAN 2	2	7	21	40	13	51	1	0	0	0	1	9	3	0	12
13 DIABLO	45	46	41	70	72	75	83	88	82	65	67	45	93	88	71
14 DMORSHAK	94	448	55	91	91	90	90	90	91	93	449	449	212	94	158
15 FARADAY	90	9	9	9	7	30	13	43	20	18	18	21	15	10	17
16 GORGE	53	53	45	78	78	83	91	102	95	80	81	55	107	101	81
17 GRAND COULEE-LDS+TRB	1775	1821	1642	1723	2267	2274	2688	1967	1959	1473	1478	2461	1683	1562	1958
18 HELLS CANYON	96	100	202	197	146	223	252	191	186	181	181	250	153	166	187
19 HUNGRY HORSE	284	187	277	209	112	191	153	162	93	0	0	517	371	156	132
20 ICE HARBOR	74	153	130	146	116	178	160	183	219	330	494	517	1076	165	226
21 JOHN DAY	756	820	714	793	882	952	1089	1026	1026	1013	1096	1502	1076	795	975
22 KERR	54	36	48	46	56	58	57	45	34	36	43	62	56	52	50
23 LA GRANDE	28	24	19	21	21	32	30	32	32	33	37	33	30	28	28
24 LIBBY	382	159	150	128	395	406	347	154	92	60	63	70	84	451	217
25 LITTLE FALLS	8	8	14	13	14	14	9	30	28	31	33	34	26	11	19
26 LITTLE GOOSE	87	162	138	146	117	177	160	166	206	325	490	519	385	170	226
27 LONG LAKE	21	21	33	30	33	33	21	66	60	69	72	72	62	26	44
28 LOWER BAKER	32	26	18	25	30	53	41	53	32	51	51	1	16	41	32
29 LOWER GRANITE	98	164	140	148	118	179	162	168	206	331	500	527	392	173	230
30 LOWER MONUMENTAL	83	161	133	150	119	183	164	188	222	337	505	529	398	176	234
31 MAYFIELD	29	26	41	56	60	97	97	97	55	58	87	55	55	41	63
32 MCNARY	542	593	508	529	629	691	802	733	734	705	767	1089	757	565	695
33 MERWIN	16	16	33	28	40	66	54	125	80	40	19	24	28	17	45
34 MONROE STREET	5	4	10	9	10	10	3	13	13	13	13	13	13	7	10
35 MOSSY ROCK	54	50	76	92	100	141	129	94	68	81	135	75	90	67	91
36 NINE MILE	5	4	10	9	10	10	3	18	19	23	24	23	18	7	13
37 NORTH FORK	11	10	10	10	8	33	14	53	22	20	20	23	16	11	19
38 NOXON	164	96	126	132	151	159	145	140	117	192	298	297	273	172	174
39 OAK GROVE	34	34	34	34	24	20	17	29	23	26	33	21	34	34	28
40 OXBOW	50	51	106	103	76	115	131	97	94	90	90	128	76	86	96
41 PACKWOOD	7	7	5	5	5	6	5	13	7	11	2	13	15	9	8
42 PELTON	33	33	38	32	32	51	32	38	37	33	29	35	34	35	36
43 PELTON REREGULATING	8	8	9	7	7	12	7	9	9	8	7	8	8	8	8
44 POST FALLS	2	2	6	5	6	6	2	14	15	15	15	15	13	4	9
45 PRST RPDS AFTER ENC.	404	472	428	435	534	529	635	503	540	478	475	483	529	429	497

TABLE A-3 (CONTINUED)

REGULATED HYDRO

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR															
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
REGULATED HYDRO PROJECTS																
46 RIVER MILL	PGE	6	5	5	5	4	17	7	23	12	10	11	12	8	6	10
47 ROCK ISLAND	CHLN	347	337	310	314	372	369	435	354	375	341	339	465	369	333	365
48 RKY REACH AFTER ENC.	CHLN	588	568	513	521	644	641	778	611	656	578	566	838	613	546	626
49 ROSS	SCL	22	33	34	76	78	77	81	72	68	45	52	33	85	74	63
50 ROUND BUTTE	PGE	82	83	94	78	76	128	75	94	92	82	71	87	83	87	88
51 SWIFT 1	PP&L	26	23	35	49	67	59	63	90	64	92	90	0	45	25	51
52 SWIFT 2	COW	7	6	10	16	23	22	24	33	24	33	31	0	13	7	18
53 THE DALLES	FED	603	652	564	615	701	774	865	828	822	817	883	1205	864	650	780
54 THOMPSON FLS REGIONAL	MPC	20	15	18	18	21	22	22	21	17	25	36	33	30	22	23
55 TRAIL BRIDGE	EUG	4	4	4	4	3	4	4	4	4	4	4	4	4	3	4
56 UPPER BAKER	PSP&L	32	26	17	22	27	32	38	45	21	44	43	0	33	42	29
57 UPPER FALLS	WHP	4	3	9	8	9	9	3	10	10	9	9	10	10	6	8
58 WANAPUM AFTER ENC.	GRNT	441	420	372	379	489	485	608	455	497	427	423	674	484	412	476
59 WELLS AFTER ENC.	DGLS	361	365	326	330	412	411	493	383	421	361	325	492	382	317	389
60 WHITE	PSP&L	27	21	13	9	7	31	24	47	38	42	45	23	43	27	27
61 YALE	PP&L	19	17	38	33	48	65	59	110	83	46	13	21	34	20	47
HYDRO EFFICIENCY IMPROVEMENTS																
62 HYDRO EFFICIENCY IMP. FED		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
63 REGULATED HYDRO W/ENC.		10222	10348	10006	10562	12077	13230	14394	12651	12442	11982	13256	16716	12654	10539	12348
TOTAL REGULATED HYDRO W/ENCROACHMENTS																
64 FEDERAL SYSTEM		6266	6790	5987	6267	7450	8060	8972	7614	7707	7297	8205	11023	7778	6337	7623
65 PUBLIC AGENCIES		1606	1361	1516	1810	1903	2000	2085	1868	1738	1755	2038	2089	1900	1676	1830
66 PRIVATE UTILITIES		2350	2197	2503	2485	2724	3170	3337	3169	2997	2930	3013	3604	2976	2526	2895
67 TOTAL REGULATED HYDRO W/ENC		10222	10348	10006	10562	12077	13230	14394	12651	12442	11982	13256	16716	12654	10539	12348
HYDRO INDEPENDENTS (FROM TABLE A-4)																
68 FEDERAL SYSTEM		407	356	321	316	289	342	192	339	242	236	259	346	381	363	313
69 PUBLIC AGENCIES		74	75	68	75	66	74	87	168	102	114	114	96	95	77	91
70 PRIVATE UTILITIES		540	539	520	501	548	682	592	689	638	654	665	633	585	541	594
71 TOTAL HYDRO INDEPENDENTS		1021	970	909	892	903	1098	871	1196	982	1004	1038	1075	1061	981	999
TOTAL REGIONAL HYDRO																
72 FEDERAL SYSTEM		6673	7146	6308	6583	7739	8402	9164	7953	7949	7533	8464	11369	8159	6700	7936
73 PUBLIC AGENCIES		1680	1436	1584	1885	1969	2074	2172	2036	1840	1869	2152	2185	1995	1753	1922
74 PRIVATE UTILITIES		2890	2736	3023	2986	3272	3852	3929	3858	3635	3584	3678	4237	3561	3067	3489
75 TOTAL REGIONAL HYDRO		11243	11318	10915	11454	12980	14328	15265	13847	13424	12986	14294	17791	13715	11520	13347

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TABLE A-3

REGULATED HYDRO PROJECTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
REGULATED HYDRO PROJECTS																
1	ALBENI FLS AFTER ENC. FED	42	22	37	38	25	20	19	20	18	23	20	34	38	38	28
2	ALDER TCL	19	16	13	14	13	19	18	20	21	21	24	22	20	19	18
3	BONNEVILLE FED	252	272	454	496	557	617	675	677	655	628	333	430	338	265	492
4	BOUNDARY AFTER ENC. SCL	420	205	354	454	391	346	297	334	280	388	589	579	415	377	386
5	BOX CANYON AFTER ENC. PENDO	61	29	53	64	58	53	46	51	43	58	74	74	59	54	55
6	BROWNLEE ID	126	133	269	254	190	293	311	231	238	230	233	325	195	218	240
7	CABINET GORGE WWP	109	64	83	85	97	102	96	96	81	139	190	192	176	111	114
8	CARMEN-SMITH EUG	17	16	16	14	13	17	17	17	17	17	13	15	17	16	16
9	CHELAN AFTER ENC. CHLN	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
10	CHIEF JOSEPH AFT ENC. FED	1142	1124	995	1005	1271	1277	1548	1194	1312	1106	1080	1633	1120	1023	1217
11	CUSHMAN 1 TCL	3	6	16	23	8	26	2	2	2	2	3	7	4	2	8
12	CUSHMAN 2 TCL	2	7		40	13	51	1	0	0	0	1	9	3	0	12
13	DIABLO SCL	45	46		0	72	75	83	88	82	65	67	45	93	88	71
14	DWORSHAK FED	94	448		1	91	90	90	90	91	93	449	449	212	94	158
15	FARADAY PGE	10	9		9	7	30	13	43	20	18	18	21	15	10	17
16	GORGE SCL	53	53	4	78	78	83	91	102	95	80	81	55	107	101	81
17	GRAND COULEE-LDS+TRB FED	1775	1821	1642	1723	2267	2274	2688	1967	1959	1473	1478	2461	1683	1562	1958
18	HELLS CANYON ID	96	100	202	197	146	223	252	191	186	181	181	250	153	166	187
19	HUNGRY HORSE FED	284	187	277	209	112	191	153	162	93	0	0	0	0	156	132
20	ICE HARBOR FED	74	153	130	146	116	178	160	183	219	330	494	517	371	165	226
21	JOHN DAY FED	756	820	714	793	882	952	1089	1026	1026	1013	1096	1502	1076	795	975
22	KERR REGIONAL MPC	50	33	44	42	52	54	54	43	32	34	40	58	52	49	47
23	LA GRANDE TCL	28	24	19	21	21	32	30	32	32	33	37	33	30	28	28
24	LIBBY FED	382	159	150	128	395	406	347	154	92	60	63	70	84	451	217
25	LITTLE FALLS WWP	8	8	14	13	14	14	9	30	28	31	33	34	26	11	19
26	LITTLE GOOSE FED	87	162	138	146	117	177	160	166	206	325	490	519	385	170	226
27	LONG LAKE WWP	21	21	33	30	33	33	21	66	60	69	72	72	62	26	44
28	LOWER BAKER PSP&L	32	26	18	25	30	53	41	53	32	51	51	1	16	41	32
29	LOWER GRANITE FED	98	164	140	148	118	179	162	168	206	331	500	527	392	173	230
30	LOWER MONUMENTAL FED	83	161	133	150	119	183	164	188	222	337	505	529	398	176	234
31	MAYFIELD TCL	29	26	41	56	60	97	97	97	55	58	87	55	55	41	63
32	MCNARY FED	542	593	508	529	629	691	802	733	734	705	767	1089	757	565	695
33	MERWIN PP&L	16	16	33	28	40	66	54	125	80	40	19	24	28	17	45
34	MONROE STREET WWP	5	4	10	9	10	10	3	13	13	13	13	13	13	7	10
35	MOSSY ROCK TCL	54	50	76	92	100	141	129	94	68	81	135	75	90	67	91
36	NINE MILE WWP	5	4	10	9	10	10	3	18	19	23	24	23	18	7	13
37	NORTH FORK PGE	11	10	10	10	8	33	14	53	22	20	20	23	16	11	19
38	NOXON WWP	164	96	126	132	151	159	145	140	117	192	298	297	273	172	174
39	OAK GROVE PGE	34	34	34	34	24	20	17	29	23	26	33	21	34	34	28
40	OXBOW ID	50	51	106	103	76	115	131	97	94	90	90	128	76	86	96
41	PACKWOOD WPPSS	7	7	5	5	5	6	5	13	7	11	2	13	15	9	8
42	PELTON PGE	33	33	38	32	32	51	32	38	37	33	29	35	34	35	36
43	PELTON REREGULATING PP&L	8	8	9	7	7	12	7	9	9	8	7	8	8	8	8
44	POST FALLS WWP	2	2	6	5	6	6	2	14	15	15	15	15	13	4	9
45	PRST RPDS AFTER ENC. GRNT	404	472	428	435	534	529	635	503	540	478	475	483	529	429	497

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TABLE A-3 (CONTINUED)

REGULATED HYDRO

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
REGULATED HYDRO PROJECTS															
46 RIVER MILL PGE	6	5	5	5	4	17	7	23	12	10	11	12	8	6	10
47 ROCK ISLAND CHLN	347	337	310	314	372	369	435	354	375	341	339	465	369	333	365
48 RKY REACH AFTER ENC. CHLN	588	568	513	521	644	641	778	611	656	578	566	838	613	546	626
49 ROSS SCL	22	33	34	76	78	77	81	72	68	45	52	33	85	74	63
50 ROUND BUTTE PGE	82	83	94	78	76	128	75	94	92	82	71	87	83	87	88
51 SWIFT 1 PP&L	26	23	35	49	67	59	63	90	64	92	90	0	45	25	51
52 SWIFT 2 COW	7	6	10	16	23	22	24	33	24	33	31	0	13	7	18
53 THE DALLES FED	603	652	564	615	701	774	865	828	822	817	883	1205	864	650	780
54 THOMPSON FLS REGIONAL MPC	18	14	16	17	19	21	21	20	16	23	34	31	28	21	21
55 TRAIL BRIDGE EUG	4	4	4	4	3	4	4	4	4	4	4	4	4	3	4
56 UPPER BAKER PSP&L	32	26	17	22	27	32	38	45	21	44	43	0	33	42	29
57 UPPER FALLS WHP	4	3	9	8	9	9	3	10	10	9	9	10	10	6	8
58 WANAPUM AFTER ENC. GRNT	441	420	372	379	489	485	608	455	497	427	423	674	484	412	476
59 WELLS AFTER ENC. DGLS	361	365	326	330	412	411	493	383	421	361	325	492	382	317	389
60 WHITE PSP&L	27	21	13	9	7	31	24	47	38	42	45	23	43	27	27
61 YALE PP&L	19	17	38	33	48	65	59	110	83	46	13	21	34	20	47
HYDRO EFFICIENCY IMPROVEMENTS															
62 HYDRO EFFICIENCY IMP. FED	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
63 REGULATED HYDRO W/ENC.	10216	10344	10000	10557	12071	13225	14390	12648	12439	11978	13251	16710	12648	10535	12343
TOTAL REGULATED HYDRO W/ENCROACHMENTS															
64 FEDERAL SYSTEM	6266	6790	5987	6267	7450	8060	8972	7614	7707	7297	8205	11023	7778	6337	7623
65 PUBLIC AGENCIES	1652	1403	1550	1845	1958	2053	2167	1916	1793	1799	2081	2186	1953	1727	1885
66 PRIVATE UTILITIES	2298	2151	2463	2445	2663	3112	3251	3118	2939	2882	2965	3501	2917	2471	2836
67 TOTAL REGULATED HYDRO W/ENC	10216	10344	10000	10557	12071	13225	14390	12648	12439	11978	13251	16710	12648	10535	12343
HYDRO INDEPENDENTS (FROM TABLE A-4)															
68 FEDERAL SYSTEM	407	356	321	316	289	342	192	339	242	236	259	346	381	363	313
69 PUBLIC AGENCIES	74	75	68	75	66	74	87	168	102	114	114	96	95	77	91
70 PRIVATE UTILITIES	537	535	516	496	544	677	589	685	634	649	661	629	582	538	590
71 TOTAL HYDRO INDEPENDENTS	1018	966	905	887	899	1093	868	1192	978	999	1034	1071	1058	978	995
TOTAL REGIONAL HYDRO															
72 FEDERAL SYSTEM	6673	7146	6308	6583	7739	8402	9164	7953	7949	7533	8464	11369	8159	6700	7936
73 PUBLIC AGENCIES	1726	1478	1618	1920	2024	2127	2254	2084	1895	1913	2195	2282	2048	1804	1976
74 PRIVATE UTILITIES	2835	2686	2979	2941	3207	3789	3840	3803	3573	3531	3626	4130	3499	3009	3426
75 TOTAL REGIONAL HYDRO	11234	11310	10905	11444	12970	14318	15258	13840	13417	12977	14285	17781	13706	11513	13338

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TABLE A-4

HYDRO INDEPENDENTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
1	AMERICAN FALLS	ID	66	66	40	14	7	16	0	0	13	58	58	57	81	81	36
2	ANDERSON RANCH	FED	25	22	16	11	5	10	8	24	4	5	5	4	38	35	15
3	BIG CLIFF	FED	10	6	8	13	15	17	7	15	7	7	7	7	7	7	10
4	BIG CREEK	FED	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
5	BLACK CANYON	FED	10	10	8	9	6	7	9	8	10	10	10	10	8	8	9
6	BLACK EAGLE	REGIONAL MPC	5	5	5	5	5	4	4	4	4	5	6	5	4	5	5
7	BLISS	ID	41	41	48	45	51	55	45	42	46	40	40	39	39	38	44
8	BULL RUN	PGE	4	4	1	1	1	15	13	15	14	14	14	14	7	6	9
9	C.J. STRIKE	ID	44	44	54	54	66	72	59	56	59	48	48	46	43	40	53
10	CALISPEL CREEK	PENDO	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0
11	CASCADE	ID	13	13	10	2	2	1	5	1	1	1	1	1	4	11	4
12	CEDAR FALLS, NEWHALEM	SCL	6	6	5	9	7	2	10	29	12	9	9	7	4	3	9
13	CHANDLER	FED	5	5	4	4	8	10	7	13	13	12	12	0	0	4	7
14	COCHRANE	REGIONAL MPC	8	8	9	8	8	7	6	7	6	8	10	8	7	8	8
15	CNDT, SM PLNTS, BIG FRK	PP&L	24	24	21	22	22	24	21	31	29	35	35	31	28	26	26
16	COUGAR	FED	17	17	15	25	24	16	8	11	8	8	8	8	15	14	14
17	COWLITZ FALLS	FED	11	11	7	7	4	17	14	53	29	45	45	36	28	15	22
18	DETROIT	FED	39	22	29	43	45	48	20	47	22	23	24	24	26	25	32
19	DEXTER	FED	7	6	8	12	16	14	7	9	5	5	5	5	5	4	8
21	FELT	PP&L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	FOSTER	FED	4	4	4	11	6	17	7	19	8	5	5	8	8	5	8
23	GEM STATE HYDRO	CIDFL	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
24	GREEN PETER	FED	23	11	13	26	16	59	14	32	9	1	1	16	16	4	19
25	GREEN SPRINGS - USBR	PP&L	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
26	HAUSER	REGIONAL MPC	5	4	5	4	4	4	4	4	4	5	5	5	4	4	4
27	HEBGEN	REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	HILLS CREEK	FED	7	6	24	23	27	21	11	12	6	6	6	6	6	6	13
29	HOLTER	REGIONAL MPC	9	9	9	9	9	8	7	7	7	9	11	9	8	9	8
30	HOOD STREET	TCL	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1
31	IDAHO FALLS	FED	21	21	18	15	17	21	18	15	17	21	21	21	19	21	19
32	JACKSON	SNOH	18	18	21	22	19	25	29	93	39	51	51	35	37	21	34
33	KLAMATH	PP&L	4	2	10	32	36	32	44	44	33	30	30	23	4	8	25
35	LEABURG	EUG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	LOOKOUT POINT	FED	29	25	33	45	47	33	16	27	16	17	17	17	18	15	26
37	LOST CREEK	FED	43	34	23	28	26	19	20	15	32	19	20	31	38	43	28
38	LOWER SALMON	ID	26	26	30	29	34	38	29	27	28	25	25	24	24	24	28
39	MADISON	REGIONAL MPC	3	3	3	3	3	2	2	2	2	3	3	3	2	3	3
40	MCNARY FISHWAY	FED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	MEYERS FALLS	HWP	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0
42	MILL CREEK	LEWIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	MLTWN FLT CR	REGIONAL MPC	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0
44	MILNER	ID	0	0	0	0	13	10	8	7	10	0	0	0	0	0	4
45	MINIDOKA	FED	16	16	14	4	4	9	2	2	11	15	15	15	15	16	10
46	MORONY	REGIONAL MPC	9	9	10	9	9	8	7	7	7	10	11	10	8	9	9
47	MORSE CREEK	PT ANGLS	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0

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TABLE A-4 (CONTINUED)

HYDRO INDEPENDENTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR												TOTAL HYDRO INDEPENDENTS		
	AUG 1-15 16-31	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15 16-30	APR 16-30	MAY		JUN	JUL
48 MOVIE SPRINGS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
49 MYSTICE REGIONAL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
50 NORTH UMPQUA	86	86	80	80	80	123	104	163	122	123	123	122	102	86	106
51 PALISADES	131	131	88	40	22	22	23	31	37	23	47	131	131	131	68
52 RAINBOW REGIONAL	11	10	11	11	10	9	8	9	9	11	13	11	9	10	10
53 REEDER GULCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 ROGUE	30	30	26	27	24	52	41	52	51	51	51	50	39	26	39
55 ROZA - PUMPING LOAD	8	8	8	-1	0	0	0	5	1	13	10	6	8	8	5
56 RYAN REGIONAL	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2
57 SHOSHONE FALLS	11	11	12	8	12	12	12	12	12	8	8	7	6	10	10
58 SNOQUALMIE, ELCT & NK	41	36	29	27	21	52	36	67	51	68	68	64	63	44	47
59 SODA CREEK	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
60 SODA SPR	0	0	0	0	0	0	5	5	5	5	5	6	8	9	6
61 SOUTH FORK TOLT	9	9	6	5	31	31	30	30	27	28	28	27	26	26	28
62 SPRINGS PLANTS	27	28	28	30	31	31	30	30	27	28	28	27	26	26	28
63 STRANBERRY	1	2	2	2	2	2	2	1	2	2	2	2	2	1	2
64 SWAN FALLS	14	14	17	17	20	19	19	19	19	15	15	15	14	13	17
65 T W SULLIVAN	14	14	14	14	14	14	14	14	14	14	14	14	14	13	14
66 THE DALLES FISHWAY, NO WAS	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
67 TWIN FALLS	7	7	9	6	18	16	14	11	15	4	4	2	0	0	8
68 UPPER SALMON 182	18	18	19	19	19	19	19	19	17	17	17	17	17	17	18
69 UPPER SALMON 384	15	15	18	17	18	18	17	16	17	14	14	14	14	14	16
70 WATERVILLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 WATERVILLE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
69 WYNOCHEE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
69 YELM	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9
70 TOTAL HYDRO INDEPENDENTS	1020	962	911	888	896	1082	851	1177	966	999	1032	1065	1049	975	989

TOTAL HYDRO INDEPENDENTS

72 FEDERAL SYSTEM	407	356	321	316	289	342	192	339	242	236	259	346	381	363	313
73 PUBLIC AGENCIES	67	68	61	68	59	67	80	161	95	107	107	89	88	70	84
74 PRIVATE UTILITIES	546	538	529	504	548	673	579	677	629	656	666	630	580	542	591
75 TOTAL HYDRO INDEPENDENTS	1020	962	911	888	896	1082	851	1177	966	999	1032	1065	1049	975	989

TABLE A-4

HYDRO INDEPENDENTS

SHEET 1 OF 2

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

		AUG 16-31		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 16-30		MAY	JUN	JUL
		1-15	16-31												
1	AMERICAN FALLS	66	66	40	14	7	16	0	0	13	58	58	57	81	81
2	ANDERSON RANCH	25	22	16	11	5	10	8	24	4	5	5	4	81	36
3	BIG CLIFF	10	6	8	13	15	17	7	15	7	7	7	7	35	15
4	BIG CREEK	0	0	0	0	0	1	0	0	0	0	0	0	0	10
5	BLACK CANYON REGIONAL	10	10	8	9	6	5	9	8	10	10	10	10	8	9
6	BLACK EAGLE REGIONAL	5	5	4	5	5	5	5	5	5	6	6	6	5	5
7	BLISS	41	41	48	45	51	55	45	42	46	40	40	39	38	44
8	BULL RUN	4	4	1	1	1	15	13	15	14	14	14	14	6	44
9	C.J. STRIKE	44	44	54	54	66	72	59	56	59	48	48	46	40	53
10	CALISPEL CREEK	0	0	1	0	0	1	0	0	1	0	0	1	0	0
11	CASCADE	13	13	10	2	2	1	5	1	1	1	1	1	11	4
12	CEDAR FALLS, NEMHALEM	6	6	5	4	7	2	10	29	12	9	9	7	3	9
13	CHANDLER	5	5	4	4	8	10	8	13	13	12	12	4	4	7
14	COCHRANE REGIONAL	7	8	7	8	8	8	8	8	8	8	8	8	8	8
15	CNDT, SM PLNTS, BIG FRK	24	24	21	22	22	24	21	31	29	35	35	31	28	26
16	COUGAR	17	17	15	25	24	16	8	11	8	8	8	8	15	14
17	COMLITZ FALLS	11	11	7	4	4	17	14	53	29	45	45	36	15	22
18	DETROIT	39	22	29	43	45	48	20	47	22	23	24	24	25	32
19	DEXTER	7	6	8	12	16	14	7	9	5	5	5	5	4	8
20	FELT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	FELT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	FOSTER	4	4	4	11	6	17	7	19	8	5	5	8	5	8
23	GEM STATE HYDRO	15	15	11	10	11	12	12	11	15	19	19	18	19	14
24	GREEN PETER	23	11	13	26	16	59	14	32	9	7	7	16	4	19
25	GREEN SPRINGS - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7
26	HAUSER REGIONAL	4	4	4	4	4	5	5	5	4	4	4	4	4	4
27	HEBGEN REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	HILLS CREEK REGIONAL	7	6	24	23	27	21	11	12	6	6	6	6	6	13
29	HOLTER REGIONAL	8	9	8	8	9	9	9	9	9	9	11	10	9	9
30	HOOD STREET	0	0	0	1	1	1	1	1	1	1	1	1	1	1
31	IDAHO FALLS	21	21	18	15	17	21	18	15	17	21	21	21	21	19
32	JACKSON	18	18	21	22	19	25	29	93	39	51	51	35	21	34
33	KLAMATH	4	2	10	32	36	32	44	44	33	30	30	23	8	25
35	LEABURG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	LOOKOUT POINT	29	25	33	45	47	33	16	27	16	17	17	17	15	26
37	LOST CREEK	43	34	23	28	26	19	20	15	32	19	20	31	43	28
38	LOWER SALMON REGIONAL	26	26	30	29	34	38	29	27	28	25	24	24	24	28
39	MADISON REGIONAL	2	3	2	2	3	3	3	3	2	3	3	3	3	3
40	MCMARY FISHWAY	7	7	7	7	7	7	7	7	7	7	7	7	7	7
41	MEYERS FALLS	0	0	0	0	0	1	0	1	1	1	1	1	0	0
42	MILL CREEK LEWIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	MLTWN FLT CR REGIONAL	0	0	0	0	0	0	0	1	1	0	0	0	0	0
44	MILNER ID	0	0	0	0	0	10	8	7	10	0	0	0	0	4
45	MINIDOKA	16	16	14	4	4	9	2	2	11	15	15	15	16	10
46	MORONY REGIONAL	8	9	8	9	9	10	10	9	9	9	11	10	9	9
47	MORSE CREEK PT ANGLS	0	0	0	0	0	1	1	1	1	1	1	0	0	0

TABLE A-4 (CONTINUED)

HYDRO INDEPENDENTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
48 MOYIE SPRINGS BONFY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
49 MYSTICE REGIONAL MPC	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
50 NORTH UMPQUA PP&L	86	86	80	80	80	123	104	163	122	123	123	122	102	86	106
51 PALISADES FED	131	131	88	40	22	22	23	31	37	23	47	131	131	131	68
52 RAINBOW REGIONAL MPC	10	11	10	10	10	11	11	11	10	11	13	12	10	10	11
53 REEDER GULCH ASHLD	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
54 ROGUE PP&L	30	30	26	27	24	52	41	52	51	51	51	50	39	26	39
55 ROZA - PUMPING LOAD FED	8	8	8	-1	0	0	0	5	7	13	10	6	8	8	5
56 RYAN REGIONAL MPC	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2
57 SHOSHONE FALLS ID	11	11	12	8	12	12	12	12	12	8	8	7	6	10	10
58 SNOQUALMIE, ELCT & NK PSP&L	41	36	29	27	21	52	36	67	51	68	68	64	63	44	47
59 SODA CREEK SODA SPR	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
60 SOUTH FORK TOLT SCL	9	9	6	5	0	4	5	5	5	5	5	6	8	9	6
61 SPRINGS PLANTS ID	27	28	28	30	31	31	30	30	27	28	28	27	26	26	28
62 STRAWBERRY LHVAL	1	2	2	2	2	2	2	1	2	2	2	2	2	1	2
63 SWAN FALLS ID	14	14	17	17	20	19	19	19	19	15	15	15	14	13	17
64 T W SULLIVAN PGE	14	14	14	14	14	14	14	14	14	14	14	14	14	13	14
65 THE DALLES FISHWAY, NO WAS	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
66 TWIN FALLS ID	7	7	9	6	18	16	14	11	15	4	4	2	0	0	8
67 UPPER SALMON 1&2 ID	18	18	19	19	19	19	19	19	17	17	17	17	17	17	18
68 UPPER SALMON 3&4 ID	15	15	18	17	18	18	17	16	17	14	14	14	14	14	16
69 WATERVILLE EUG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70 HYNOCHEE TCL	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
69 YELM CNTRA	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9
70 TOTAL HYDRO INDEPENDENTS	1021	970	909	892	903	1098	871	1196	982	1004	1038	1075	1061	981	999
TOTAL HYDRO INDEPENDENTS															
72 FEDERAL SYSTEM	407	356	321	316	289	342	192	339	242	236	259	346	381	363	313
73 PUBLIC AGENCIES	74	75	68	75	66	74	87	168	102	114	114	96	95	77	91
74 PRIVATE UTILITIES	540	539	520	501	548	682	592	689	638	654	665	633	585	541	594
75 TOTAL HYDRO INDEPENDENTS	1021	970	909	892	903	1098	871	1196	982	1004	1038	1075	1061	981	999

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HYDRO INDEPENDENTS

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL																														
															36	15	10	0	9	5	44	9	53	0	4	9	7	7	26	14	22	32	8	1	8	14	19	7	4	0	13	8	1	19
1 AMERICAN FALLS	66	66	40	14	7	16	0	0	13	58	57	81	81	81																														
2 ANDERSON RANCH	25	22	16	11	5	10	8	24	4	5	4	38	35	35																														
3 BIG CLIFF	10	6	8	13	15	17	7	15	7	7	7	7	7	7																														
4 BIG CREEK	0	0	0	0	0	1	0	0	0	0	0	0	0	0																														
5 BLACK CANYON	10	10	8	9	6	7	9	8	10	10	10	8	8	8																														
6 BLACK EAGLE REGIONAL	4	4	4	4	4	5	5	5	4	6	5	5	5	5																														
7 BLISS	41	41	48	45	51	55	45	42	46	40	39	38	38	38																														
8 BULL RUN	4	4	1	1	1	15	13	15	14	14	14	6	6	6																														
9 C.J. STRIKE	44	44	54	54	66	72	59	56	59	48	46	43	43	43																														
10 CALISPEL CREEK	0	0	1	0	0	1	0	0	1	0	1	0	0	0																														
11 CASCADE	13	13	10	2	2	1	5	0	1	1	1	4	4	4																														
12 CEDAR FALLS, NEHALEM	6	6	5	9	7	2	10	29	12	9	7	4	4	4																														
13 CHANDLER	5	5	4	4	8	10	7	13	13	12	8	0	0	0																														
14 COCHRANE REGIONAL	7	8	7	7	7	8	8	8	7	7	8	7	7	7																														
15 CNDT, SM PLNTS, BIG FRK	24	24	21	22	22	24	21	31	29	35	31	28	26	26																														
16 COUGAR	17	17	15	25	24	16	8	11	8	8	8	8	15	15																														
17 COMLITZ FALLS	11	11	7	7	4	17	14	53	29	45	36	28	15	15																														
18 DETROIT	39	22	29	43	45	48	20	47	22	23	24	26	25	25																														
19 DEXTER	7	6	8	12	16	14	7	9	5	5	5	5	4	4																														
20 FELT	1	1	1	1	1	1	1	1	1	1	1	1	1	1																														
21 FOSTER	4	4	4	11	6	17	7	19	1	5	8	8	5	5																														
22 GEM STATE HYDRO	15	15	11	10	11	12	12	11	15	19	18	17	19	19																														
23 GREEN PETER	23	11	13	26	16	59	14	32	9	7	7	16	7	7																														
24 GREEN SPRINGS - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7																														
25 HAUSER REGIONAL	4	4	4	4	4	4	4	4	4	4	4	4	4	4																														
26 HEBGEN REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0																														
27 HILLS CREEK REGIONAL	7	6	24	23	27	21	11	12	6	6	6	6	6	6																														
28 HOLT STREET	7	8	7	7	8	8	9	8	8	8	9	8	8	8																														
29 HOOD STREET	0	0	0	1	1	1	1	1	1	1	1	1	1	1																														
30 IDAHO FALLS	21	21	18	15	17	21	18	15	17	21	21	19	19	19																														
31 JACKSON	18	18	21	22	19	25	29	93	39	51	35	37	21	21																														
32 KLAMATH	4	2	10	32	36	32	44	44	33	30	23	4	8	8																														
33 LEABURG	0	0	0	0	0	0	0	0	0	0	0	0	0	0																														
34 LOOKOUT POINT	29	25	33	45	47	33	16	27	16	17	17	18	15	15																														
35 LOST CREEK	43	34	23	28	26	19	20	15	32	19	31	38	43	43																														
36 LOWER SALMON	26	26	30	29	34	38	29	27	28	25	24	24	24	24																														
37 MADISON REGIONAL	2	2	2	2	2	2	3	3	2	3	3	2	2	2																														
38 MCNARY FISHWAY	7	7	7	7	7	7	7	7	7	7	7	7	7	7																														
39 MEYERS FALLS	0	0	0	0	0	1	0	1	1	1	1	1	1	1																														
40 MILL CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0																														
41 MLTWN FLT CR REGIONAL	0	0	0	0	1	0	0	0	1	0	0	1	1	1																														
42 YILNER	0	0	0	0	0	10	8	7	10	0	0	0	0	0																														
43 MINIDOKA	16	16	14	4	4	9	2	2	11	15	15	15	16	16																														
44 MORONY	8	9	7	8	8	9	9	9	8	9	9	8	8	8																														
45 MORSE CREEK	0	0	0	0	0	1	1	1	1	1	1	1	1	1																														
46 PT ANGLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0																														
47																																												

TABLE A-4 (CONTINUED)

HYDRO INDEPENDENTS

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
48	MOYIE SPRINGS	BONFY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
49	MYSTICE	REGIONAL MPC	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2
50	NORTH UMPQUA	PP&L	86	86	80	80	80	123	104	163	122	123	123	102	86	106	68
51	PALISADES	FED	131	131	88	40	22	23	31	37	23	47	131	131	131	10	10
52	RAINBOW	REGIONAL MPC	9	10	9	9	10	10	10	10	10	12	11	10	10	0	0
53	REEDER GULCH	ASHLD	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
54	ROGUE	PP&L	30	30	26	27	24	52	41	52	51	51	50	39	26	39	5
55	ROZA - PUMPING LOAD	FED	8	8	8	-1	0	0	5	7	13	10	6	8	8	5	2
56	RYAN	REGIONAL MPC	2	2	1	2	2	2	2	2	1	2	2	2	2	2	2
57	SHOSHONE FALLS	ID	11	11	12	8	12	12	12	12	8	8	7	6	10	10	10
58	SNOQUALMIE, ELCT & NK	PSP&L	41	36	29	27	21	52	36	67	51	68	64	63	44	47	0
59	SODA CREEK	SODA SPR	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
60	SOUTH FORK TOLT	SCL	9	9	6	5	0	4	5	5	5	5	6	8	9	6	6
61	SPRINGS PLANTS	ID	27	28	28	30	31	31	30	27	28	28	27	26	26	28	2
62	STRAWBERRY	LHVAL	1	2	2	2	2	2	1	2	2	2	2	2	1	2	17
63	SWAN FALLS	ID	14	14	17	17	20	19	19	19	15	15	15	14	13	14	14
64	T W SULLIVAN	PGE	14	14	14	14	14	14	14	14	14	14	14	14	13	14	3
65	THE DALLES FISHWAY, NO WAS		3	3	3	3	3	3	3	3	3	3	3	3	3	3	8
66	TWIN FALLS	ID	7	7	9	6	18	16	14	11	15	4	4	2	0	0	18
67	UPPER SALMON 1&2	ID	18	18	19	19	19	19	19	17	17	17	17	17	17	17	16
68	UPPER SALMON 3&4	ID	15	15	18	17	18	17	16	17	14	14	14	14	14	14	0
69	WATERVILLE	EUG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
70	HYNOCHEE	TCL	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
69	YELM	CNTRA	9	9	6	10	10	10	10	10	10	10	10	10	8	9	9
70	TOTAL HYDRO INDEPENDENTS		1018	966	905	887	899	1093	868	1192	978	999	1034	1071	1058	978	995
TOTAL HYDRO INDEPENDENTS																	
72	FEDERAL SYSTEM		407	356	321	316	289	342	192	339	242	236	259	346	381	363	313
73	PUBLIC AGENCIES		74	75	68	75	66	74	87	168	102	114	114	96	95	77	91
74	PRIVATE UTILITIES		537	535	516	496	544	677	589	685	634	649	661	629	582	538	590
75	TOTAL HYDRO INDEPENDENTS		1018	966	905	887	899	1093	868	1192	978	999	1034	1071	1058	978	995

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TABLE A-5

IMPORTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		

IMPORTS FROM EAST																	
1	BASIN ELEC. TO BPA	PWR S	120	120	120	120	120	120	120	120	112	0	0	120	120	105	
2	PP&L TO BPA	SO ID	13	13	42	108	161	215	189	145	117	89	89	0	18	34	94
INTRA-COMPANY TRANSFERS																	
3	PP&L WYOMING TO PP&L		1083	1083	791	895	1021	1046	1054	1078	1062	946	946	1068	1085	1130	1022
4	UTAH		418	418	357	354	344	390	355	370	332	298	298	373	485	576	388

5	IMPORTS FROM EAST		1634	1634	1310	1477	1646	1771	1718	1713	1631	1445	1333	1441	1708	1860	1608

IMPORTS FROM PSW																	
6	ANAHEIM TO BPA	XCHG NRG	0	0	0	6	6	6	6	6	6	0	0	0	0	0	3
7	BURBANK TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BGP TO BPA	SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	GLENDALE TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	MSR TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASADENA TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	RIVERSIDE TO BPA	XCHG NRG	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
13	SMUD TO BPA	DEF NRG RET	0	0	21	21	21	21	0	0	0	0	0	0	0	0	21
14	SDG&E TO BPA	XCHG NRG	0	0	43	43	43	43	43	43	0	0	0	0	0	0	51
15	SDG&E TO BPA	DEF NRG RET	0	0	102	102	102	102	102	102	0	0	0	0	0	0	0
16	SCE TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	SCE TO BPA	SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	SCE TO BPA	OPT NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	SCE TO PGE	SPX	0	0	0	0	104	104	104	104	0	0	0	0	0	0	35
20	PG&E TO PSP&L	SPX	0	0	0	0	141	141	141	141	0	0	0	0	0	0	47
21	NCPA TO SCL	SPX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	PG&E TO WWP	SPX	0	0	0	0	43	72	74	72	39	0	0	0	0	0	25

23	IMPORTS FROM PSW		0	0	166	178	466	495	476	474	51	12	0	0	0	0	193

IMPORTS FROM CANADA																	
24	BC HYDRO TO PSP&L	PWR S	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	BC HYDRO TO SCL	ROSS	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
26	BC HYDRO TO BPA	PGE ICP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	TRANS ALTA TO BPA	PWR S	133	133	133	133	133	133	133	133	0	0	0	0	133	100	

28	IMPORTS FROM CANADA		153	153	148	154	170	180	193	202	195	29	29	28	38	159	137

29	TOTAL IMPORTS		1787	1787	1624	1809	2282	2446	2387	2389	1877	1486	1362	1469	1746	2019	1938

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TABLE A-5

IMPORTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS

	AUG		1994-95 OPERATING YEAR												
	1-15	16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
TOTAL IMPORTS															
30 FEDERAL SYSTEM	266	266	461	539	592	646	599	555	382	213	89	0	138	287	385
31 PUBLIC AGENCIES	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
32 PRIVATE UTILITIES	1503	1503	1150	1251	1655	1755	1730	1767	1435	1246	1246	1443	1572	1708	1518
33 TOTAL IMPORTS	1787	1787	1624	1809	2282	2446	2387	2389	1877	1486	1362	1469	1746	2019	1938

NOTE: THE FOLLOWING BPA CONTRACTS WITH THE PSW ARE INCLUDED AS FEDERAL RESOURCE OPTIONS AND NOT INCLUDED IN THE FEDERAL LOADS AND RESOURCE BALANCE.

A. BGP TO BPA, CAPACITY/ENERGY EXCHANGE	D. SCE TO BPA, CAPACITY/ENERGY EXCHANGE
B. BGP TO BPA, SUPPLEMENTAL ENERGY	E. SCE TO BPA, SUPPLEMENTAL ENERGY
C. MSR TO BPA, CAPACITY/ENERGY EXCHANGE	F. SCE TO BPA, OPTION ENERGY

TABLE A-5

IMPORTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
IMPORTS FROM EAST																
1	BASIN ELEC. TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	PP&L TO BPA	13	13	42	108	161	215	189	145	117	89	89	0	18	34	94
INTRA-COMPANY TRANSFERS																
3	PP&L WYOMING TO PP&L	914	914	568	600	603	857	867	871	735	780	780	903	920	971	799
4	UTAH	437	437	379	379	373	423	387	405	363	327	327	400	509	597	415
5	IMPORTS FROM EAST	1364	1364	989	1087	1137	1495	1443	1421	1215	1196	1196	1303	1447	1602	1308
IMPORTS FROM PSW																
6	ANAHEIM TO BPA	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
7	BURBANK TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BGP TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	GLENDALE TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	MSR TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASADENA TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	RIVERSIDE TO BPA	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
13	SMUD TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	SDG&E TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SDG&E TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	SCE TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	SCE TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	SCE TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	SCE TO PGE	0	0	0	0	104	104	104	104	0	0	0	0	0	0	35
20	PG&E TO PSP&L	0	0	0	0	141	141	141	141	0	0	0	0	0	0	47
21	NCPA TO SCL	0	0	0	0	24	30	30	30	30	6	6	0	0	0	12
22	PG&E TO WWP	0	0	0	0	43	72	74	72	39	0	0	0	0	0	25
23	IMPORTS FROM PSW	0	0	0	12	324	359	361	359	81	18	6	0	0	0	126
IMPORTS FROM CANADA																
24	BC HYDRO TO PSP&L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	BC HYDRO TO SCL	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
26	BC HYDRO TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	TRANS ALTA TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	IMPORTS FROM CANADA	20	20	15	21	37	47	60	69	62	29	29	28	38	26	38
29	TOTAL IMPORTS	1384	1384	1004	1120	1498	1901	1864	1849	1358	1243	1231	1331	1485	1628	1472

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IMPORTS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR												JUL		
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY		JUN	
TOTAL IMPORTS															
30 FEDERAL SYSTEM	13	13	42	120	173	227	201	157	129	101	89	0	18	34	101
31 PUBLIC AGENCIES	18	18	13	19	59	75	88	97	90	33	33	26	36	24	48
32 PRIVATE UTILITIES	1353	1353	949	981	1266	1599	1575	1595	1139	1109	1109	1305	1431	1570	1323
33 TOTAL IMPORTS	1384	1384	1004	1120	1498	1901	1864	1849	1358	1243	1231	1331	1485	1628	1472

NOTE: THE FOLLOWING BPA CONTRACTS WITH THE PSW ARE INCLUDED AS FEDERAL RESOURCE OPTIONS AND NOT INCLUDED IN THE FEDERAL LOADS AND RESOURCE BALANCE.

A. BGP TO BPA, CAPACITY/ENERGY EXCHANGE	D. SCE TO BPA, CAPACITY/ENERGY EXCHANGE
B. BGP TO BPA, SUPPLEMENTAL ENERGY	E. SCE TO BPA, SUPPLEMENTAL ENERGY
C. MSR TO BPA, CAPACITY/ENERGY EXCHANGE	F. SCE TO BPA, OPTION ENERGY

TABLE A-5

IMPORTS
2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS			AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
IMPORTS FROM EAST																	
1	BASIN ELEC. TO BPA	PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	PP&L TO BPA	SO ID	13	13	42	108	161	215	189	145	117	89	89	0	18	34	94
INTRA-COMPANY TRANSFERS																	
3	PP&L WYOMING TO PP&L		809	809	512	582	739	746	740	781	773	658	658	786	802	854	732
4	UTAH		476	476	421	422	419	473	424	447	398	358	358	438	554	645	456
5	IMPORTS FROM EAST		1298	1298	975	1112	1319	1434	1353	1373	1288	1105	1105	1224	1374	1533	1282
IMPORTS FROM PSW																	
6	ANAHEIM TO BPA	XCHG NRG	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
7	BURBANK TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BGP TO BPA	SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	GLENDALE TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	MSR TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASADENA TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	RIVERSIDE TO BPA	XCHG NRG	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
13	SMUD TO BPA	DEF NRG RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	SDG&E TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SDG&E TO BPA	DEF NRG RET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	SCE TO BPA	XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	SCE TO BPA	SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	SCE TO BPA	OPT NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	SCE TO PGE	SPX	0	0	0	0	104	104	104	104	0	0	0	0	0	0	35
20	PG&E TO PSP&L	SPX	0	0	0	0	141	141	141	141	0	0	0	0	0	0	47
21	NCPA TO SCL	SPX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	PG&E TO WWP	SPX	0	0	0	0	43	72	74	72	39	0	0	0	0	0	25
23	IMPORTS FROM PSW		0	0	0	12	300	329	331	329	51	12	0	0	0	0	113
IMPORTS FROM CANADA																	
24	BC HYDRO TO PSP&L	PWR S	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	BC HYDRO TO SCL	ROSS	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
26	BC HYDRO TO BPA	PGE ICP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	TRANS ALTA TO BPA	PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	IMPORTS FROM CANADA		20	20	15	21	37	47	60	69	62	29	29	28	38	26	38
29	TOTAL IMPORTS		1318	1318	990	1145	1656	1810	1744	1771	1401	1146	1134	1252	1412	1559	1433

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TABLE A-5

ENERGY IN AVERAGE MEGAWATTS	IMPORTS												1993 WHITEBOOK: 12/19/93				
	AUG 1-15	AUG 16-31	2003-4 OPERATING YEAR				JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	RUN DATE: 01/19/94		
			SEP	OCT	NOV	DEC											
TOTAL IMPORTS																	
30 FEDERAL SYSTEM	13	13	42	120	173	227	201	157	129	101	89	0	18	34	101		
31 PUBLIC AGENCIES	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36		
32 PRIVATE UTILITIES	1287	1287	935	1006	1448	1538	1485	1547	1212	1018	1018	1226	1358	1501	1297		
33 TOTAL IMPORTS	1318	1318	990	1145	1656	1810	1744	1771	1401	1146	1134	1252	1412	1559	1433		

NOTE: THE FOLLOWING BPA CONTRACTS WITH THE PSW ARE INCLUDED AS FEDERAL RESOURCE OPTIONS AND NOT INCLUDED IN THE FEDERAL LOADS AND RESOURCE BALANCE.

A. BGP TO BPA, CAPACITY/ENERGY EXCHANGE	D. SCE TO BPA, CAPACITY/ENERGY EXCHANGE
B. BGP TO BPA, SUPPLEMENTAL ENERGY	E. SCE TO BPA, SUPPLEMENTAL ENERGY
C. MSR TO BPA, CAPACITY/ENERGY EXCHANGE	F. SCE TO BPA, OPTION ENERGY

TABLE A-6

SMALL THERMAL AND MISCELLANEOUS RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR												1993		
	AUG 1-15 16-31	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 DIESEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2 STEAM PLANT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 SUMMIT 182	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4 ENERGY MANAG SYSTEMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5 CRYSTAL MOUNTAIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6 SHUFFLETON	0	0	0	0	6	6	6	6	0	0	0	0	0	0	
7 BIRD REGIONAL MPC	0	0	0	0	1	1	1	1	0	0	0	0	0	0	
8 CORETTE REGIONAL MPC	50	48	53	50	49	43	39	40	40	52	62	52	0	49	
9 SEATTLE BOUNDARY SCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 TOTAL SMALL THERMAL & MISC.	51	49	54	51	57	51	47	48	41	53	63	53	1	50	
TOTAL SMALL THERMAL & MISC.	51	49	54	51	57	51	47	48	41	53	63	53	1	50	
11 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 PRIVATE UTILITIES	51	49	54	51	57	51	47	48	41	53	63	53	1	50	
14 TOTAL SMALL THERMAL & MISC.	51	49	54	51	57	51	47	48	41	53	63	53	1	50	

TABLE A-6

SMALL THERMAL AND MISCELLANEOUS RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS		1998-99 OPERATING YEAR												JUL						
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY			JUN				
1	DIESEL CITYIDFL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	STEAM PLANT 2 TCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	SUMMIT 1&2 PGE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4	ENERGY MANAG SYSTEMS ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	CRYSTAL MOUNTAIN PSP&L	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
6	SHUFFLETON PSP&L	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	BIRD REGIONAL MPC	46	50	44	47	49	51	52	51	48	49	60	55	0	48	46	0	0	0	
8	CORETTE REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	SEATTLE BOUNDRY SCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 TOTAL SMALL THERMAL & MISC.		47	51	45	48	57	59	60	59	50	51	62	57	2	50	49				
TOTAL SMALL THERMAL & MISC.																				
11	FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	PRIVATE UTILITIES	47	51	45	48	57	59	60	59	50	51	62	57	2	50	49				
14 TOTAL SMALL THERMAL & MISC.		47	51	45	48	57	59	60	59	50	51	62	57	2	50	49				

TABLE A-6

SMALL THERMAL AND MISCELLANEOUS RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS			2003- 4 OPERATING YEAR																		
			AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY			JUN	JUL			
1	DIESEL	CITYIDFL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	STEAM PLANT 2	TCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	SUMMIT 1&2	PGE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4	ENERGY MANAG SYSTEMS	ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	CRYSTAL MOUNTAIN	PSP&L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
6	SHUFFLETON	PSP&L	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
7	BIRD	REGIONAL MPC	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8	CORETTE	REGIONAL MPC	42	46	41	43	45	47	49	48	45	46	56	51	0	0	0	0	45	42	
9	SEATTLE BOUNDRY	SCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 TOTAL SMALL THERMAL & MISC.			44	48	42	44	53	55	57	56	47	48	58	53	2	47				46	
TOTAL SMALL THERMAL & MISC.																					
11	FEDERAL SYSTEM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PUBLIC AGENCIES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	PRIVATE UTILITIES		44	48	42	44	53	55	57	56	47	48	58	53	2	47				46	
14 TOTAL SMALL THERMAL & MISC.			44	48	42	44	53	55	57	56	47	48	58	53	2	47					46

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TABLE A-7

COMBUSTION TURBINES
1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS			AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
1	WOOD RIVER	ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	BETHEL	PGE	53	53	53	53	53	52	52	53	53	53	53	53	53	53	53	53
3	BEAVER	PGE	315	315	320	327	335	338	341	338	334	328	328	324	320	315	328	328
4	WHIDBEY ISLAND	PSP&L	0	0	0	0	2	2	2	2	0	0	0	0	0	0	0	1
5	WHITEHORN	PSP&L	0	0	0	0	117	113	113	125	0	0	0	0	0	0	0	39
6	FREDRICKSON	PSP&L	0	0	0	0	12	12	12	13	0	0	0	0	0	0	0	4
7	FREDONIA UNITS 1&2	PSP&L	0	0	0	0	17	17	17	18	0	0	0	0	0	0	0	6
8	RATHDRUM UNITS 1&2	WWP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	NORTHEAST UNITS 1&2	WWP	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
10	TOTAL COMBUSTION TURBINES		423	423	428	435	591	589	592	604	442	436	436	432	428	423	485	
TOTAL COMBUSTION TURBINES																		
11	FEDERAL SYSTEM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PUBLIC AGENCIES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	PRIVATE UTILITIES		423	423	428	435	591	589	592	604	442	436	436	432	428	423	485	485
14	TOTAL COMBUSTION TURBINES		423	423	428	435	591	589	592	604	442	436	436	432	428	423	485	

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TABLE A-7

COMBUSTION TURBINES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

			AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	WOOD RIVER	ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	BETHEL	PGE	53	53	53	53	53	52	52	53	53	53	53	53	53	53	53
3	BEAVER	PGE	494	494	494	494	494	494	494	494	494	247	247	247	344	344	428
4	WHIDBEY ISLAND	PSP&L	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1
5	WHITEHORN	PSP&L	0	0	0	0	117	113	113	125	0	0	0	0	0	0	39
6	FREDRICKSON	PSP&L	0	0	0	0	12	12	12	13	0	0	0	0	0	0	4
7	FREDONIA UNITS 1&2	PSP&L	0	0	0	0	17	17	17	18	0	0	0	0	0	0	6
8	RATHDRUM UNITS 1&2	HWP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	NORTHEAST UNITS 1&2	HWP	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
10 TOTAL COMBUSTION TURBINES			602	602	602	602	750	745	745	760	602	355	355	355	452	452	585
TOTAL COMBUSTION TURBINES																	
11	FEDERAL SYSTEM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PUBLIC AGENCIES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	PRIVATE UTILITIES		602	602	602	602	750	745	745	760	602	355	355	355	452	452	585
14 TOTAL COMBUSTION TURBINES			602	602	602	602	750	745	745	760	602	355	355	355	452	452	585

TABLE A-7

COMBUSTION TURBINES
2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	WOOD RIVER ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	BETHEL PGE	53	53	53	53	53	52	52	53	53	53	53	53	53	53	53
3	BEAVER PGE	494	494	494	494	494	494	494	494	494	247	247	247	344	344	428
4	WHIDBEY ISLAND PSP&L	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1
5	WHITEHORN PSP&L	0	0	0	0	117	113	113	125	0	0	0	0	0	0	39
6	FREDRICKSON PSP&L	0	0	0	0	12	12	12	13	0	0	0	0	0	0	4
7	FREDONIA UNITS 1&2 PSP&L	0	0	0	0	17	17	17	18	0	0	0	0	0	0	6
8	RATHDRUM UNITS 1&2 WWP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	NORTHEAST UNITS 1&2 WWP	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
10 TOTAL COMBUSTION TURBINES		602	602	602	602	750	745	745	760	602	355	355	355	452	452	585
TOTAL COMBUSTION TURBINES																
11	FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	PRIVATE UTILITIES	602	602	602	602	750	745	745	760	602	355	355	355	452	452	585
14 TOTAL COMBUSTION TURBINES		602	602	602	602	750	745	745	760	602	355	355	355	452	452	585

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TABLE A-8

RENEWABLE RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
1 SHORT MOUNTAIN	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 KETTLE FALLS	44	44	44	44	44	44	44	44	44	44	44	44	44	0	44	40
3 TOTAL RENEWABLE RESOURCES	46	46	46	46	46	46	46	46	46	46	46	46	46	2	46	42
TOTAL RENEWABLE RESOURCES																
4 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 PUBLIC AGENCIES	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6 PRIVATE UTILITIES	44	44	44	44	44	44	44	44	44	44	44	44	44	0	44	40
7 TOTAL RENEWABLE RESOURCES	46	46	46	46	46	46	46	46	46	46	46	46	46	2	46	42

TABLE A-8

RENEWABLE RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS			AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
1	SHORT MOUNTAIN	EMRD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2	KETTLE FALLS	WHP	43	43	43	43	43	43	43	43	43	43	43	43	0	43	43	39
3	TOTAL RENEWABLE RESOURCES		47	47	47	47	47	47	47	47	47	47	47	47	4	47	47	43
TOTAL RENEWABLE RESOURCES																		
4	FEDERAL SYSTEM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	PUBLIC AGENCIES		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
6	PRIVATE UTILITIES		43	43	43	43	43	43	43	43	43	43	43	43	0	43	43	39
7	TOTAL RENEWABLE RESOURCES		47	47	47	47	47	47	47	47	47	47	47	47	4	47	47	43

TABLE A-8

RENEWABLE RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS			AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
1	SHORT MOUNTAIN	EMRD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2	KETTLE FALLS	WHP	44	44	44	44	44	44	44	44	44	44	44	44	44	0	44	40
3	TOTAL RENEWABLE RESOURCES		48	48	48	48	48	48	48	48	48	48	48	48	48	4	48	44
TOTAL RENEWABLE RESOURCES																		
4	FEDERAL SYSTEM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	PUBLIC AGENCIES		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
6	PRIVATE UTILITIES		44	44	44	44	44	44	44	44	44	44	44	44	44	0	44	40
7	TOTAL RENEWABLE RESOURCES		48	48	48	48	48	48	48	48	48	48	48	48	48	4	48	44

TABLE A-9

COGENERATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 WEYCO ENERGY CENTER	EWEB	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
2 SCOTT PAPER	SNOH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COYOTE SPRINGS	PGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

THE FOLLOWING RESOURCE IS SOLD OUTSIDE THE REGION

4 LONGVIEW FIBRE FOR WAPA *		36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
5 TOTAL COGENERATION		51	51	51	51	51	44	51	51	51	51	51	51	51	44	50

TOTAL COGENERATION

6 FEDERAL SYSTEM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 PUBLIC AGENCIES		15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
8 PRIVATE UTILITIES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 NON-NORTHWEST UTILITIES *		36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
10 TOTAL COGENERATION		51	51	51	51	51	44	51	51	51	51	51	51	51	44	50

TABLE A-9

COGENERATION

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS			AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	WEYCO ENERGY CENTER	EWEB	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
2	SCOTT PAPER	SNOH	38	38	27	27	27	27	27	27	27	38	38	38	38	38	32
3	COYOTE SPRINGS	PGE	240	240	240	240	240	240	240	240	240	0	0	240	240	240	220
THE FOLLOWING RESOURCE IS SOLD OUTSIDE THE REGION																	
4	LONGVIEW FIBRE FOR WAPA *		36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
5	TOTAL COGENERATION		329	329	318	318	318	311	318	318	318	89	89	329	329	322	301
TOTAL COGENERATION																	
6	FEDERAL SYSTEM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	PUBLIC AGENCIES		53	53	42	42	42	35	42	42	42	53	53	53	53	46	45
8	PRIVATE UTILITIES		240	240	240	240	240	240	240	240	240	0	0	240	240	240	220
9	NON-NORTHWEST UTILITIES *		36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
10	TOTAL COGENERATION		329	329	318	318	318	311	318	318	318	89	89	329	329	322	301

TABLE A-9

COGENERATION

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	WEYCO ENERGY CENTER	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
2	SCOTT PAPER	38	38	27	27	27	27	27	27	27	38	38	38	38	38	32
3	COYOTE SPRINGS	240	240	240	240	240	240	240	240	240	0	0	240	240	240	220
THE FOLLOWING RESOURCE IS SOLD OUTSIDE THE REGION																
4	LONGVIEW FIBRE FOR WAPA *	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
5	TOTAL COGENERATION	329	329	318	318	318	311	318	318	318	89	89	329	329	322	301
TOTAL COGENERATION																
6	FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	PUBLIC AGENCIES	53	53	42	42	42	35	42	42	42	53	53	53	53	46	45
8	PRIVATE UTILITIES	240	240	240	240	240	240	240	240	240	0	0	240	240	240	220
9	NON-NORTHWEST UTILITIES *	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
10	TOTAL COGENERATION	329	329	318	318	318	311	318	318	318	89	89	329	329	322	301

TABLE A-10

LARGE THERMAL

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
BOARDMAN, COAL																
1	IDAHO SHARE 10.0 %	43	43	43	43	43	43	43	43	43	43	43	3	23	43	38
2	PGE SHARE 65.8 %	287	287	287	287	287	287	287	287	287	287	287	18	154	287	253
3	BOARDMAN 75.8% REGION	330	330	330	330	330	330	330	330	330	330	330	21	177	330	291
SAN DIEGO GAS AND ELECTRIC AND CITY OF TURLOCK ARE NOT REGIONAL RESOURCES																
4	SDG&E SHARE 14.2 % *	62	62	62	62	62	62	62	62	62	62	62	4	33	62	55
5	TURLOCK SHARE 10.0 % *	44	44	44	44	44	44	44	44	44	44	44	3	23	44	39
6	BOARDMAN 24.2% NON-REGION	106	106	106	106	106	106	106	106	106	106	106	7	56	106	94
7	BOARDMAN	436	436	436	436	436	436	436	436	436	436	436	28	233	436	385
CENTRALIA, COAL																
8	PP&L SHARE 47.5 %	586	586	586	586	586	586	586	586	586	586	586	409	482	586	563
9	PGE SHARE 2.5 %	31	31	31	31	31	31	31	31	31	31	31	21	26	31	30
10	PSP&L SHARE 7.0 % + 4.0%	136	136	136	136	136	136	136	136	136	136	136	95	112	136	131
11	SEATTLE SHARE 8.0 %	99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
12	TACOMA SHARE 8.0 %	99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
13	WHP SHARE 15.0 %	185	185	185	185	185	185	185	185	185	185	185	129	152	185	178
14	SNOHOM SHARE 8.0 %	99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
15	GHARBOR SHARE 4.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	CENTRALIA	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	861	1015	1235	1185
COLSTRIP 1 & 2, COAL																
17	MPC SHARE IN REGION	98	94	103	97	96	85	77	78	79	51	101	67	84	96	86
18	PSP&L SHARE	266	266	266	266	266	266	266	266	266	133	223	176	266	266	251
19	COLSTRIP 1 & 2	364	360	368	363	362	351	343	344	345	184	324	244	350	362	337
COLSTRIP 3, COAL																
20	MPC SHARE IN REGION	72	69	76	72	71	63	57	58	58	75	36	46	62	71	63
21	PP&L SHARE 10 %	65	66	65	65	65	65	65	65	65	66	26	40	65	65	61
22	PGE SHARE 20 %	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
23	PSP&L SHARE 25 %	164	164	164	164	164	164	164	164	164	164	66	101	164	164	155
24	WHP SHARE 15 %	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
25	COLSTRIP 3	530	528	534	530	529	521	515	516	516	534	219	327	520	529	495

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TABLE A-10 (CONTINUED)

LARGE THERMAL

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	

COLSTRIP 4,	COAL															
26 MPC	SHARE 30 %	196	196	196	196	196	196	196	196	196	196	79	121	196	196	185
27 PP&L	SHARE 10 %	66	65	66	65	65	65	65	66	65	66	26	40	66	66	62
28 PGE	SHARE 20 %	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
29 PSP&L	SHARE 25 %	164	164	164	164	164	164	164	164	164	164	66	100	164	164	155
30 WWP	SHARE 15 %	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
31 COLSTRIP 4		655	654	655	654	654	654	654	655	654	655	262	401	655	655	617

JIM BRIDGER,	COAL															
32 IDAHO	SHARE 33%	636	636	636	585	531	636	636	636	566	393	393	464	577	636	578

VALMY,	COAL															
33 IDAHO	SHARE 50% OUTPUT	202	202	202	202	202	202	202	202	160	202	189	163	202	202	195

WNP 2,	NUCLEAR															
34 BPA	SHARE 100.0%	826	826	826	826	826	826	826	826	826	661	0	0	771	867	715
35 TOTAL LARGE THERMAL		4884	4877	4892	4831	4775	4861	4847	4850	4738	4300	3058	2488	4323	4922	4507

TOTAL LARGE THERMAL																
36 FEDERAL SYSTEM		826	826	826	826	826	826	826	826	826	661	0	0	771	867	715
37 PUBLIC AGENCIES		297	297	297	297	297	297	297	297	297	297	297	207	243	297	285
38 PRIVATE UTILITIES		3655	3648	3663	3602	3546	3632	3618	3621	3509	3236	2655	2274	3253	3652	3414
39 NON-NORTHWEST UTILITIES	*	106	106	106	106	106	106	106	106	106	106	106	7	56	106	94
40 TOTAL LARGE THERMAL		4884	4877	4892	4831	4775	4861	4847	4850	4738	4300	3058	2488	4323	4922	4507

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LARGE THERMAL

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR												
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN

BOARDMAN, COAL															
1 IDAHO SHARE 10.0 %	43	43	43	43	43	43	43	43	43	43	43	3	23	43	38
2 PGE SHARE 65.8 %	287	287	287	287	287	287	287	287	287	287	287	18	154	287	253
3 BOARDMAN 75.8% REGION	330	330	330	330	330	330	330	330	330	330	330	21	177	330	291

SAN DIEGO GAS AND ELECTRIC AND CITY OF TURLOCK ARE NOT REGIONAL RESOURCES

4 SDG&E SHARE 14.2 %	62	62	62	62	62	62	62	62	62	62	62	4	33	62	55
5 TURLOCK SHARE 10.0 %	44	44	44	44	44	44	44	44	44	44	44	3	23	44	39
6 BOARDMAN 24.2% NON-REGION	106	106	106	106	106	106	106	106	106	106	106	7	56	106	94
7 BOARDMAN	436	436	436	436	436	436	436	436	436	436	436	28	233	436	385

CENTRALIA, COAL

8 PP&L SHARE 47.5 %	587	587	587	587	587	587	587	587	587	587	587	430	465	587	564
9 PGE SHARE 2.5 %	31	31	31	31	31	31	31	31	31	31	31	23	25	31	30
10 PSP&L SHARE 7.0 % + 4.0%	86	86	86	86	86	86	86	86	86	86	86	63	69	86	83
11 SEATTLE SHARE 8.0 %	99	99	99	99	99	99	99	99	99	99	99	72	78	99	95
12 TACOMA SHARE 8.0 %	99	99	99	99	99	99	99	99	99	99	99	72	78	99	95
13 WHP SHARE 15.0 %	185	185	185	185	185	185	185	185	185	185	185	136	147	185	178
14 SNOHOM SHARE 8.0 %	99	99	99	99	99	99	99	99	99	99	99	73	78	99	95
15 GHARBOR SHARE 4.0%	49	49	49	49	49	49	49	49	49	49	49	36	39	49	47
16 CENTRALIA	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	905	979	1235	1186

COLSTRIP 1 & 2, COAL

17 MPC SHARE IN REGION	89	97	86	91	95	100	101	100	95	48	98	71	94	93	91
18 PSP&L SHARE	266	266	266	266	266	266	266	266	266	133	223	176	266	266	251
19 COLSTRIP 1 & 2	355	363	352	357	361	366	367	366	360	181	321	247	360	359	342

COLSTRIP 3, COAL

20 MPC SHARE IN REGION	66	71	64	67	70	74	75	74	70	71	35	49	70	69	67
21 PP&L SHARE 10 %	65	65	65	65	65	65	65	65	65	66	26	40	65	65	61
22 PGE SHARE 20 %	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
23 PSP&L SHARE 25 %	164	164	164	164	164	164	164	164	164	164	66	100	164	164	155
24 WHP SHARE 15 %	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
25 COLSTRIP 3	524	529	522	525	528	532	533	532	528	530	218	329	528	527	499

TABLE A-10 (CONTINUED)

LARGE THERMAL

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
COLSTRIP 4, COAL																
26 MPC	SHARE 30 %	196	196	196	196	196	196	196	196	196	196	79	121	196	196	185
27 PP&L	SHARE 10 %	66	66	66	65	66	65	65	65	66	65	26	40	66	66	62
28 PGE	SHARE 20 %	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
29 PSP&L	SHARE 25 %	164	164	164	164	164	164	164	164	164	164	66	100	164	164	155
30 WWP	SHARE 15 %	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
31 COLSTRIP 4		655	655	655	654	655	654	654	654	655	654	262	401	655	655	617
JIM BRIDGER, COAL																
32 IDAHO	SHARE 33%	636	636	636	595	521	636	636	636	541	465	465	465	604	636	584
VALMY, COAL																
33 IDAHO	SHARE 50% OUTPUT	211	211	211	211	211	211	211	211	169	116	101	165	211	202	194
WNP 2, NUCLEAR																
34 BPA	SHARE 100.0%	872	872	872	872	872	872	872	872	872	698	0	0	815	872	751
35 TOTAL LARGE THERMAL		4924	4937	4919	4885	4819	4942	4944	4942	4796	4315	3038	2540	4385	4922	4558
TOTAL LARGE THERMAL																
36 FEDERAL SYSTEM		872	872	872	872	872	872	872	872	872	698	0	0	815	872	751
37 PUBLIC AGENCIES		346	346	346	346	346	346	346	346	346	346	346	253	273	346	332
38 PRIVATE UTILITIES		3600	3613	3595	3561	3495	3618	3620	3618	3472	3165	2586	2280	3241	3598	3382
39 NON-NORTHWEST UTILITIES	*	106	106	106	106	106	106	106	106	106	106	106	7	56	106	94
40 TOTAL LARGE THERMAL		4924	4937	4919	4885	4819	4942	4944	4942	4796	4315	3038	2540	4385	4922	4558

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TABLE A-10

LARGE THERMAL

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
BOARDMAN, COAL																
1	IDAHO SHARE 10.0 %	43	43	43	43	43	43	43	43	43	43	43	3	23	43	38
2	PGE SHARE 65.8 %	287	287	287	287	287	287	287	287	287	287	287	18	154	287	253
3	BOARDMAN 75.8% REGION	330	330	330	330	330	330	330	330	330	330	330	21	177	330	291
SAN DIEGO GAS AND ELECTRIC AND CITY OF TURLOCK ARE NOT REGIONAL RESOURCES																
4	SDG&E SHARE 14.2 % *	62	62	62	62	62	62	62	62	62	62	62	4	33	62	55
5	TURLOCK SHARE 10.0 % *	44	44	44	44	44	44	44	44	44	44	44	3	23	44	39
6	BOARDMAN 24.2% NON-REGION	106	106	106	106	106	106	106	106	106	106	106	7	56	106	94
7	BOARDMAN	436	436	436	436	436	436	436	436	436	436	436	28	233	436	385
CENTRALIA, COAL																
8	PP&L SHARE 47.5 %	587	587	587	587	587	587	587	587	587	587	587	376	526	587	564
9	PGE SHARE 2.5 %	31	31	31	31	31	31	31	31	31	31	31	20	28	31	30
10	PSP&L SHARE 7.0 % + 4.0%	86	86	86	86	86	86	86	86	86	86	86	56	77	86	83
11	SEATTLE SHARE 8.0 %	99	99	99	99	99	99	99	99	99	99	99	63	89	99	95
12	TACOMA SHARE 8.0 %	99	99	99	99	99	99	99	99	99	99	99	63	89	99	95
13	HWP SHARE 15.0 %	185	185	185	185	185	185	185	185	185	185	185	119	166	185	178
14	SNOHOM SHARE 8.0 %	99	99	99	99	99	99	99	99	99	99	99	63	88	99	95
15	GHARBOR SHARE 4.0%	49	49	49	49	49	49	49	49	49	49	49	32	44	49	47
16	CENTRALIA	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	792	1107	1235	1187
COLSTRIP 1 & 2, COAL																
17	MPC SHARE IN REGION	82	89	79	83	88	93	95	94	88	45	92	66	88	89	85
18	PSP&L SHARE	266	266	266	266	266	266	266	266	266	133	223	176	266	266	251
19	COLSTRIP 1 & 2	348	355	345	349	354	359	361	360	354	178	315	243	354	354	336
COLSTRIP 3, COAL																
20	MPC SHARE IN REGION	61	66	58	62	65	68	71	69	65	66	32	46	65	65	62
21	PP&L SHARE 10 %	65	65	66	65	65	66	65	65	65	65	26	40	65	66	62
22	PGE SHARE 20 %	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
23	PSP&L SHARE 25 %	164	164	164	164	164	164	164	164	164	164	66	100	164	164	155
24	HWP SHARE 15 %	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
25	COLSTRIP 3	519	524	517	520	523	527	529	527	523	524	215	326	523	524	494

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TABLE A-10 (CONTINUED)

LARGE THERMAL

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
COLSTRIP 4, COAL																
26 MPC	SHARE 30 %	196	196	196	196	196	196	196	196	196	196	79	121	196	196	185
27 PP&L	SHARE 10 %	66	66	65	66	66	65	66	66	65	65	26	40	66	66	62
28 PGE	SHARE 20 %	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
29 PSP&L	SHARE 25 %	164	164	164	164	164	164	164	164	164	164	66	100	164	164	155
30 HWP	SHARE 15 %	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
31 COLSTRIP 4		655	655	654	655	655	654	655	655	654	654	262	401	655	655	617
JIM BRIDGER, COAL																
32 IDAHO	SHARE 33%	636	636	636	601	515	636	636	636	546	465	465	465	599	636	584
VALMY, COAL																
33 IDAHO	SHARE 50% OUTPUT	211	211	211	211	211	211	211	211	169	116	101	165	211	202	194
HNP 2, NUCLEAR																
34 BPA	SHARE 100.0%	872	872	872	872	872	872	872	872	872	698	0	0	815	872	751
35 TOTAL LARGE THERMAL		4912	4924	4906	4879	4801	4930	4935	4932	4789	4306	3029	2420	4497	4914	4549
TOTAL LARGE THERMAL																
36 FEDERAL SYSTEM		872	872	872	872	872	872	872	872	872	698	0	0	815	872	751
37 PUBLIC AGENCIES		346	346	346	346	346	346	346	346	346	346	346	221	310	346	333
38 PRIVATE UTILITIES		3588	3600	3582	3555	3477	3606	3611	3608	3465	3156	2577	2192	3316	3590	3372
39 NON-NORTHWEST UTILITIES	*	106	106	106	106	106	106	106	106	106	106	106	7	56	106	94
40 TOTAL LARGE THERMAL		4912	4924	4906	4879	4801	4930	4935	4932	4789	4306	3029	2420	4497	4914	4549

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TABLE A-11

RESTORATION
1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

	AUG 1-15		AUG 16-31		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15		APR 16-30		MAY	JUN	JUL		
1 FEDERAL	-26	0	-26	0	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COLOCUM TRANSMISSION CO.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
4 COMLIZ COUNTY PUD #1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GRANT COUNTY PUD #2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
8 MONTANA POWER CO. REGIONAL	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
9 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PORTLAND GENERAL ELECTRIC	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
11 PACIFIC POWER & LIGHT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
12 PUGET SOUND POWER & LIGHT	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
13 SEATTLE CITY LIGHT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
14 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 WASHINGTON WATER POWER	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
16 TOTAL RESTORATION	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TOTAL RESTORATION																				
17 FEDERAL SYSTEM	-26	0	-26	0	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
18 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PRIVATE UTILITIES	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
20 TOTAL RESTORATION	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

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RESTORATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL	
	1-15	16-31								1-15	16-30				
1 FEDERAL	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 COLOCKUM TRANSMISSION CO.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	
4 COWLIZ COUNTY PUD #1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7 GRANT COUNTY PUD #2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	
8 MONTANA POWER CO. REGIONAL	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
9 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 PORTLAND GENERAL ELECTRIC	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	
11 PACIFIC POWER & LIGHT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
12 PUGET SOUND POWER & LIGHT	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	
13 SEATTLE CITY LIGHT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
14 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15 WASHINGTON WATER POWER	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
16 TOTAL RESTORATION	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
TOTAL RESTORATION															
17 FEDERAL SYSTEM	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	
18 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19 PRIVATE UTILITIES	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
20 TOTAL RESTORATION	4	4	4	4	4	4	4	4	4	4	4	4	4	4	

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TABLE A-11

RESTORATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS	2003 - 4 OPERATING YEAR													
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 FEDERAL	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COLOCUM TRANSMISSION CO.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
4 COMLIZ COUNTY PUD #1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GRANT COUNTY PUD #2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
8 MONTANA POWER CO. REGIONAL	6	6	6	6	6	6	6	6	6	6	6	6	6	6
9 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PORTLAND GENERAL ELECTRIC	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
11 PACIFIC POWER & LIGHT	30	30	30	30	30	30	30	30	30	30	30	30	30	30
12 PUGET SOUND POWER & LIGHT	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
13 SEATTLE CITY LIGHT	2	2	2	2	2	2	2	2	2	2	2	2	2	2
14 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 WASHINGTON WATER POWER	8	8	8	8	8	8	8	8	8	8	8	8	8	8
16 TOTAL RESTORATION	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TOTAL RESTORATION	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26
17 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PUBLIC AGENCIES	30	30	30	30	30	30	30	30	30	30	30	30	30	30
19 PRIVATE UTILITIES	4	4	4	4	4	4	4	4	4	4	4	4	4	4
20 TOTAL RESTORATION	4	4	4	4	4	4	4	4	4	4	4	4	4	4

CANADIAN ENTITLEMENT RETURN FOR CSPE
 EXPIRING APRIL 1, 2003
 1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS
 AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

BPA CANADIAN ENTITLEMENT	220	220	220	220	220	220	220	220	220	220	220	220	220	212	212	212	212	212	212	217
1 BPA CANADIAN ENTITLEMENT	220	220	220	220	220	220	220	220	220	220	220	220	220	212	212	212	212	212	212	217

PRIEST RAPIDS CANADIAN ENTITLEMENT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 PP&L CER FOR PRIEST R.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 PGE CER FOR PRIEST R.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 PSP&L CER FOR PRIEST R.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 SEATTL CER FOR PRIEST R.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6 TACOMA CER FOR PRIEST R.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7 WMP CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GRANT CER FOR PRIEST R.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9 EUGENE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 COMLIZ CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 F GROV CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 MCMINN CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 M FREE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 KITITS CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 PRIEST CANADIAN ENTITLEMENT	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	8

HANAPUM CANADIAN ENTITLEMENT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16 PP&L CER FOR HANAPUM	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17 PGE CER FOR HANAPUM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18 PSP&L CER FOR HANAPUM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19 WMP CER FOR HANAPUM	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
20 GRANT CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 EUGENE CER FOR HANAPUM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22 COMLIZ CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 F GROV CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 MCMINN CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 M FREE CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 HANAPUM CANADIAN ENT	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

ROCK ISLAND CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 CHELAN CER FOR ROCK ISLAND	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
28 PSP&L CER FOR ROCK ISLAND	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29 ROCK I CANADIAN ENTITLEMENT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

TABLE A-12 (CONTINUED)

CANADIAN ENTITLEMENT RETURN FOR CSPE
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
ROCKY REACH CANADIAN ENTITLEMENT															
30 PP&L CER FOR ROCKY REACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31 PGE CER FOR ROCKY REACH	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3
32 PSP&L CER FOR ROCKY REACH	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
33 WWP CER FOR ROCKY REACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34 DOUGLS CER FOR ROCKY REACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35 CHELAN CER FOR ROCKY REACH	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
36 COLOCK CER FOR ROCKY REACH	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
37 ROCKY REACH CANADIAN ENT	22	22	22	22	22	22	22	22	22	21	21	21	21	21	22
WELLS CANADIAN ENTITLEMENT															
38 PP&L CER FOR WELLS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39 PGE CER FOR WELLS	4	4	4	4	4	4	4	4	4	3	3	3	3	3	4
40 PSP&L CER FOR WELLS	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
41 WWP CER FOR WELLS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42 DOUGLS CER FOR WELLS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
43 OKANOG CER FOR WELLS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44 WELLS CANADIAN ENTITLEMENT	16	16	16	16	16	16	16	16	16	15	15	15	15	15	16
45 TOTAL CANADIAN ENT	279	279	279	279	279	279	279	279	279	268	268	268	268	268	275
TOTAL CANADIAN ENTITLEMENT															
46 FEDERAL SYSTEM	220	220	220	220	220	220	220	220	220	212	212	212	212	212	217
47 PUBLIC AGENCIES W/COLOCKUM	24	24	24	24	24	24	24	24	24	23	23	23	23	23	24
48 PRIVATE UTILITIES	35	35	35	35	35	35	35	35	35	33	33	33	33	33	34
49 TOTAL	279	279	279	279	279	279	279	279	279	268	268	268	268	268	275

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TABLE A-12 (CONTINUED)

CANADIAN ENTITLEMENT RETURN FOR CSPE
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
ROCKY REACH CANADIAN ENTITLEMENT															
30 PP&L CER FOR ROCKY REACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31 PGE CER FOR ROCKY REACH	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2
32 PSP&L CER FOR ROCKY REACH	7	7	7	7	7	7	7	7	7	4	4	4	4	4	6
33 WWP CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 DOUGLS CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 CHELAN CER FOR ROCKY REACH	3	3	3	3	3	3	3	3	3	1	1	1	1	1	2
36 COLOCK CER FOR ROCKY REACH	4	4	4	4	4	4	4	4	4	2	2	2	2	2	3
37 ROCKY REACH CANADIAN ENT	17	17	17	17	17	17	17	17	17	9	9	9	9	9	14
WELLS CANADIAN ENTITLEMENT															
38 PP&L CER FOR WELLS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39 PGE CER FOR WELLS	3	3	3	3	3	3	3	3	3	1	1	1	1	1	2
40 PSP&L CER FOR WELLS	4	4	4	4	4	4	4	4	4	2	2	2	2	2	3
41 WWP CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 DOUGLS CER FOR WELLS	3	3	3	3	3	3	3	3	3	1	1	1	1	1	2
43 OKANOG CER FOR WELLS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44 WELLS CANADIAN ENTITLEMENT	12	12	12	12	12	12	12	12	12	6	6	6	6	6	10
45 TOTAL CANADIAN ENT	215	215	215	215	215	215	215	215	215	103	103	103	103	103	178
TOTAL CANADIAN ENTITLEMENT															
46 FEDERAL SYSTEM	170	170	170	170	170	170	170	170	170	80	80	80	80	80	140
47 PUBLIC AGENCIES W/COLOCKUM	18	18	18	18	18	18	18	18	18	8	8	8	8	8	15
48 PRIVATE UTILITIES	27	27	27	27	27	27	27	27	27	15	15	15	15	15	23
49 TOTAL	215	215	215	215	215	215	215	215	215	103	103	103	103	103	178

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TABLE A-12

CANADIAN ENTITLEMENT RETURN FOR CSPE
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	2003- 4 OPERATING YEAR												
	AUG 1-15 16-31	AUG 1-15 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15 16-30	APR 1-15 16-30	MAY	JUN

BPA CANADIAN ENTITLEMENT

1 BPA CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRIEST RAPIDS CANADIAN ENTITLEMENT															
2 PP&L CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 PGE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 PSP&L CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 SEATTL CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 TACOMA CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 WMP CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GRANT CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 EUGENE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 COWLIZ CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 F GROV CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 MCMINN CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 M FREE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 KIITTS CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 PRIEST CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HANAPUM CANADIAN ENTITLEMENT

16 PP&L CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PGE CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PSP&L CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 WMP CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 GRANT CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 EUGENE CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 COWLIZ CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 F GROV CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 MCMINN CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 M FREE CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 HANAPUM CANADIAN ENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ROCK ISLAND CANADIAN ENTITLEMENT

27 CHELAN CER FOR ROCK ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 PSP&L CER FOR ROCK ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ROCK I CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CANADIAN ENTITLEMENT RETURN FOR CSPE
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
ROCKY REACH CANADIAN ENTITLEMENT																
30	PP&L CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	PGE CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	PSP&L CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	WHP CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	DOUGLS CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	CHELAN CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	COLOCK CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	ROCKY REACH CANADIAN ENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WELLS CANADIAN ENTITLEMENT																
38	PP&L CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	PGE CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	PSP&L CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	WHP CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	DOUGLS CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	OKANOG CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	WELLS CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	TOTAL CANADIAN ENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL CANADIAN ENTITLEMENT																
46	FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	PUBLIC AGENCIES W/COLOCKUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE A-13

COLUMBIA STORAGE POWER EXCHANGE (CSPE) PURCHASE
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 CHELAN COUNTY PUD #1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 CLARK PUBLIC UTILITIES	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
3 COWLITZ COUNTY PUD #1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
4 DOUGLAS COUNTY PUD #1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 EUGENE WATER & ELEC BOARD	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
6 GRANT COUNTY PUD #1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7 GRAYS HARBOR COUNTY PUD #1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
8 OTHER PUBLIC AGENCIES	25	25	25	25	25	25	25	25	25	24	24	24	24	24	25
9 PEND OREILLE COUNTY PUD #1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 PORTLAND GENERAL ELECTRIC	49	49	49	49	49	49	49	49	49	47	47	47	47	47	48
11 PACIFIC POWER & LIGHT	28	28	28	28	28	28	28	28	28	27	27	27	27	27	28
12 PUGET SOUND POWER & LIGHT	49	49	49	49	49	49	49	49	49	47	47	47	47	47	48
13 SEATTLE CITY LIGHT	35	35	35	35	35	35	35	35	35	33	33	33	33	33	34
14 SNOHOMISH COUNTY PUD #1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
15 TACOMA PUBLIC UTILITIES	35	35	35	35	35	35	35	35	35	33	33	33	33	33	34
16 WASHINGTON WATER POWER	14	14	14	14	14	14	14	14	14	13	13	13	13	13	14
17 TOTAL CSPE PURCHASE	279	279	279	279	279	279	279	279	279	268	268	268	268	268	275
TOTAL CSPE PURCHASE															
18 PUBLIC AGENCIES	139	139	139	139	139	139	139	139	139	134	134	134	134	134	137
19 PRIVATE UTILITIES	140	140	140	140	140	140	140	140	140	134	134	134	134	134	138
20 TOTAL	279	279	279	279	279	279	279	279	279	268	268	268	268	268	275

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TABLE A-13

COLUMBIA STORAGE POWER EXCHANGE (CSPE) PURCHASE
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL	
	1-15	16-31								1-15	16-30				
1 CHELAN COUNTY PUD #1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2
2 CLARK PUBLIC UTILITIES	6	6	6	6	6	6	6	6	6	3	3	3	3	3	5
3 COWLITZ COUNTY PUD #1	5	5	5	5	5	5	5	5	5	3	3	3	3	3	4
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	12	12	12	12	12	12	12	12	12	6	6	6	6	6	10
6 GRANT COUNTY PUD #1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
7 GRAYS HARBOR COUNTY PUD #1	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3
8 OTHER PUBLIC AGENCIES	20	20	20	20	20	20	20	20	20	9	9	9	9	9	16
9 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PORTLAND GENERAL ELECTRIC	38	38	38	38	38	38	38	38	38	18	18	18	18	18	31
11 PACIFIC POWER & LIGHT	22	22	22	22	22	22	22	22	22	10	10	10	10	10	18
12 PUGET SOUND POWER & LIGHT	38	38	38	38	38	38	38	38	38	18	18	18	18	18	31
13 SEATTLE CITY LIGHT	27	27	27	27	27	27	27	27	27	13	13	13	13	13	22
14 SNOHOMISH COUNTY PUD #1	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3
15 TACOMA PUBLIC UTILITIES	27	27	27	27	27	27	27	27	27	13	13	13	13	13	22
16 WASHINGTON WATER POWER	11	11	11	11	11	11	11	11	11	5	5	5	5	5	9
17 TOTAL CSPE PURCHASE	215	215	215	215	215	215	215	215	215	103	103	103	103	103	178
TOTAL CSPE PURCHASE															
18 PUBLIC AGENCIES	106	106	106	106	106	106	106	106	106	52	52	52	52	52	88
19 PRIVATE UTILITIES	109	109	109	109	109	109	109	109	109	51	51	51	51	51	90
20 TOTAL	215	215	215	215	215	215	215	215	215	103	103	103	103	103	178

TABLE A-14

SUPPLEMENTAL AND ENTITLEMENT CAPACITY
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR														
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 OTHER PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 TOTAL SUPP & ENT CAPACITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL SUPPLEMENT & ENTITLEMENT CAPACITY															
15 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TOTAL SUPP & ENT CAPACITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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SUPPLEMENTAL AND ENTITLEMENT CAPACITY
EXPIRING APRIL 1, 2003

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	2003- 4 OPERATING YEAR														
	AUG 1-15 16-31	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COMLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 OTHER PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 TOTAL SUPP & ENT CAPACITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL SUPPLEMENT & ENTITLEMENT CAPACITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TOTAL SUPP & ENT CAPACITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1, 1998

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL
	1-15	16-31	1-15	16-30						1-15	16-30			
BPA CANADIAN ENTITLEMENT														
1 BPA CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRIEST RAPIDS CANADIAN ENTITLEMENT														
2 PP&L CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 PGE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 PSP&L CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 SEATTI CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 TACOMA CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 WMP CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GRANT CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 EUGENE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 COHLIZ CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 F GROV CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 MCMINN CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 M FREE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 KITITS CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 PRIEST CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HANAPUM CANADIAN ENTITLEMENT														
16 PP&L CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PGE CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PSP&L CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 WMP CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 GRANT CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 EUGENE CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 COHLIZ CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 F GROV CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 MCMINN CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 M FREE CER FOR HANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 HANAPUM CANADIAN ENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROCK ISLAND CANADIAN ENTITLEMENT														
27 CHELAN CER FOR ROCK ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 PSP&L CER FOR ROCK ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ROCK I CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1, 1998

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
ROCKY REACH CANDIAN ENTITLEMENT															
30 PP&L CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 PGE CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 PSP&L CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 WWP CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 DOUGLS CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 CHELAN CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 COLOCK CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 ROCKY REACH CANADIAN ENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WELLS CANADIAN ENTITLEMENT															
38 PP&L CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 PGE CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 PSP&L CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 WWP CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 DOUGLS CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 OKANOG CER FOR WELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 WELLS CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 TOTAL CANADIAN ENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL CANADIAN ENTITLEMENT															
46 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 PUBLIC AGENCIES W/COLOCKUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1, 1998

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15 16-31		SEP		OCT		NOV		DEC		JAN		FEB		MAR		APR 1-15 16-30		MAY		JUN		JUL	
	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	239	239	239	239	239	239	239

BPA CANADIAN ENTITLEMENT		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	239	239	239	239	239	239	239
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PRIEST RAPIDS CANADIAN ENTITLEMENT		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	239	239	239	239	239	239	239
2	PP&L CER FOR PRIEST R.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
3	PGE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PSP&L CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	SEATIL CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	TACOMA CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	WHP CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	GRANT CER FOR PRIEST R.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	EUGENE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	COMLIZ CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	F GROV CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	MCMINN CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	M FREE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	KITITS CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	PRIEST CANADIAN ENTITLEMENT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	11	11	11	11	11	11	11

WANAPUM CANADIAN ENTITLEMENT		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	239	239	239	239	239	239	239
16	PP&L CER FOR WANAPUM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	PGE CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	PSP&L CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	WHP CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	GRANT CER FOR WANAPUM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	EUGENE CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	COMLIZ CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	F GROV CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	MCMINN CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	M FREE CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	WANAPUM CANADIAN ENT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	14	14	14	14	14	14	14

ROCK ISLAND CANDIAN ENTITLEMENT		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	239	239	239	239	239	239	239
27	CHELAN CER FOR ROCK ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PSP&L CER FOR ROCK ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	ROCK I CANADIAN ENTITLEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3

CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1, 1998

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS			AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
ROCKY REACH CANDIAN ENTITLEMENT																	
30	PP&L	CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
31	PGE	CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	3	3	3	3	3	1
32	PSP&L	CER FOR ROCKY REACH	2	2	2	2	2	2	2	2	2	9	9	9	9	9	4
33	WHP	CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
34	DOUGLS	CER FOR ROCKY REACH	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
35	CHELAN	CER FOR ROCKY REACH	1	1	1	1	1	1	1	1	1	4	4	4	4	4	2
36	COLOCK	CER FOR ROCKY REACH	1	1	1	1	1	1	1	1	1	5	5	5	5	5	2
37	ROCKY REACH CANADIAN ENT		4	4	4	4	4	4	4	4	4	24	24	24	24	24	11
HELLS CANADIAN ENTITLEMENT																	
38	PP&L	CEP FOR HELLS	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
39	PGE	CER FOR HELLS	1	1	1	1	1	1	1	1	1	4	4	4	4	4	2
40	PSP&L	CER FOR HELLS	1	1	1	1	1	1	1	1	1	6	6	6	6	6	3
41	WHP	CER FOR HELLS	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
42	DOUGLS	CER FOR HELLS	1	1	1	1	1	1	1	1	1	4	4	4	4	4	2
43	OKANOG	CER FOR HELLS	0	0	0	0	0	0	0	0	0	2	2	2	2	2	1
44	HELLS CANADIAN ENTITLEMENT		3	3	3	3	3	3	3	3	3	18	18	18	18	18	8
45	TOTAL CANADIAN ENT		51	51	51	51	51	51	51	51	51	309	309	309	309	309	137
TOTAL CANADIAN ENTITLEMENT																	
46	FEDERAL SYSTEM		40	40	40	40	40	40	40	40	40	239	239	239	239	239	106
47	PUBLIC AGENCIES W/COLOCKUM		5	5	5	5	5	5	5	5	5	27	27	27	27	27	12
48	PRIVATE UTILITIES		6	6	6	6	6	6	6	6	6	43	43	43	43	43	18
49	TOTAL		51	51	51	51	51	51	51	51	51	309	309	309	309	309	137

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CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1, 1998

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS
AUG 1-15 16-31
AUG 411
SEP 411
OCT 411
NOV 411
DEC 411
JAN 411
FEB 411
MAR 411
APR 1-15 16-30 411
APR 411
MAY 411
JUN 411
JUL 411

BPA CANADIAN ENTITLEMENT		AUG 411	SEP 411	OCT 411	NOV 411	DEC 411	JAN 411	FEB 411	MAR 411	APR 1-15 411	APR 16-30 411	MAY 411	JUN 411	JUL 411	
1	BPA CANADIAN ENTITLEMENT	411	411	411	411	411	411	411	411	411	411	411	411	411	
PRIEST RAPIDS CANADIAN ENTITLEMENT															
2	PP&L CER FOR PRIEST R.	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3	PGE CER FOR PRIEST R.	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	PSP&L CER FOR PRIEST R.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	SEATTL CER FOR PRIEST R.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6	TACOMA CER FOR PRIEST R.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	WMP CER FOR PRIEST R.	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	GRANT CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	EUGENE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	COHLIZ CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	F GROV CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	MCMINN CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	M FREE CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	KITTS CER FOR PRIEST R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	PRIEST CANADIAN ENTITLEMENT	18	18	18	18	18	18	18	18	18	18	18	18	18	18

WANAPUM CANADIAN ENTITLEMENT		AUG 411	SEP 411	OCT 411	NOV 411	DEC 411	JAN 411	FEB 411	MAR 411	APR 1-15 411	APR 16-30 411	MAY 411	JUN 411	JUL 411
16	PP&L CER FOR WANAPUM	4	4	4	4	4	4	4	4	4	4	4	4	4
17	PGE CER FOR WANAPUM	4	4	4	4	4	4	4	4	4	4	4	4	4
18	PSP&L CER FOR WANAPUM	3	3	3	3	3	3	3	3	3	3	3	3	3
19	WMP CER FOR WANAPUM	2	2	2	2	2	2	2	2	2	2	2	2	2
20	GRANT CER FOR WANAPUM	9	9	9	9	9	9	9	9	9	9	9	9	9
21	EUGENE CER FOR WANAPUM	1	1	1	1	1	1	1	1	1	1	1	1	1
22	COHLIZ CER FOR WANAPUM	1	1	1	1	1	1	1	1	1	1	1	1	1
23	F GROV CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0
24	MCMINN CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0
25	M FREE CER FOR WANAPUM	0	0	0	0	0	0	0	0	0	0	0	0	0
26	WANAPUM CANADIAN ENT	24	24	24	24	24	24	24	24	24	24	24	24	24

ROCK ISLAND CANDIAN ENTITLEMENT		AUG 411	SEP 411	OCT 411	NOV 411	DEC 411	JAN 411	FEB 411	MAR 411	APR 1-15 411	APR 16-30 411	MAY 411	JUN 411	JUL 411
27	CHELAN CER FOR ROCK ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PSP&L CER FOR ROCK ISLAND	5	5	5	5	5	5	5	5	5	5	5	5	5
29	ROCK I CANADIAN ENTITLEMENT	5	5	5	5	5	5	5	5	5	5	5	5	5

TABLE A-15 (CONTINUED)

CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1, 1998

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

ROCKY REACH CANDIAN ENTITLEMENT

30 PP&L CER FOR ROCKY REACH	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
31 PGE CER FOR ROCKY REACH	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
32 PSP&L CER FOR ROCKY REACH	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
33 WWP CER FOR ROCKY REACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34 DOUGLS CER FOR ROCKY REACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35 CHELAN CER FOR ROCKY REACH	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
36 COLOCK CER FOR ROCKY REACH	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
37 ROCKY REACH CANADIAN ENT	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42

WELLS CANADIAN ENTITLEMENT

38 PP&L CER FOR WELLS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
39 PGE CER FOR WELLS	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
40 PSP&L CER FOR WELLS	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
41 WWP CER FOR WELLS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42 DOUGLS CER FOR WELLS	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
43 OKANOG CER FOR WELLS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
44 WELLS CANADIAN ENTITLEMENT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

45 TOTAL CANADIAN ENT

45 TOTAL CANADIAN ENT	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530
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TOTAL CANADIAN ENTITLEMENT

46 FEDERAL SYSTEM	411	411	411	411	411	411	411	411	411	411	411	411	411	411	411
47 PUBLIC AGENCIES W/COLOCKUM	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
48 PRIVATE UTILITIES	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
49 TOTAL	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530

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CONTRACTS BETWEEN UTILITIES
1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

	AUG 1-15		AUG 16-31		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15		APR 16-30		MAY	JUN	JUL	
1 BPA TO CLARK, PKHD LAKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA TO MPC, HNP1 OBLIG	76	76	76	76	76	76	76	76	76	76	76	61	61	23	23	0	23	61	65
3 BPA TO MPC, CAP/NRG XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA TO OTHER, PKHD LAKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO PPL, CAP SLE, BRIDGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA TO PPL, SOUTHERN IDAHO	13	13	42	108	0	161	215	189	189	145	117	90	90	44	44	18	44	34	94
7 BPA TO PPL, HNP3 OBLIG	80	80	80	80	80	80	80	80	80	80	80	43	43	44	44	44	44	44	68
8 BPA TO PGE, HNP1 OBLIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 BPA TO PGE, HNP3 OBLIG	80	80	80	80	80	80	80	80	80	56	56	56	56	56	56	56	56	56	68
10 BPA TO PGP, HNP3 SETTLE	0	0	0	0	0	129	129	129	129	129	64	64	64	64	64	64	64	64	54
11 BPA TO PSP&L, BAKER HD LOSS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12 BPA TO PSP&L, PS & PWR XCHG	0	0	0	150	0	150	150	150	150	150	150	43	43	44	44	44	44	63	75
13 BPA TO PSP&L, HNP1 OBLIG	80	80	80	80	80	82	82	82	82	82	40	40	40	40	40	40	40	40	34
14 BPA TO WMP, SRPLS CAPAC SLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 BPA TO WMP, HNP3 CAPAC SLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 BPA TO WMP, HNP1 OBLIG	80	80	80	80	80	80	80	80	80	80	75	58	58	25	25	18	18	80	68
17 BPA TO WMP, HNP3 SETTLE	0	0	0	0	0	65	65	65	65	65	32	32	32	32	32	32	32	32	27
18 CHELAN TO DOUG, CAP/NRG XCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 CHELAN TO PGE, C/N TRANS/XCH	8	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
20 COLCOCKUM TO PPL, CAP/NRG X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 COLCOCKUM TO CHELAN, PK SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 DOUGLAS TO CHEL, CAP/NR XCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23 GRANT TO PPL, PWR SALE	13	13	10	8	11	7	8	8	9	7	8	10	10	13	13	14	14	14	10
24 IDAHO TO OR TRAIL, RPLC SLE	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
25 IDAHO TO SCL, ENERGY XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
26 IDAHO TO MPC, SEAS PWR XCHG	0	0	0	0	0	25	50	50	50	50	11	11	11	11	11	11	11	11	12
27 IDAHO TO MPC, PWR SALE	26	26	26	78	29	78	78	78	78	78	29	26	26	26	26	26	26	26	26
28 MPC TO BPA, CAP/NRG XCHG	29	29	29	80	80	80	80	80	80	80	80	29	29	29	29	29	29	29	29
29 MPC TO BPA, POWER SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
30 MPC TO ID, SEAS PWR XCHG	75	75	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	12
31 MPC TO PPL, PWR SALE	10	10	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	71
32 MPC TO WMP, PWR SALE	77	77	54	1	54	1	34	34	2	0	1	1	1	1	1	1	1	1	18
33 MPC TO WMP, PWR SALE	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34 OTHER TO PSP&L, SP PURCHASE	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
35 NO HASCO TO PSP&L, SALE	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 PPL TO BPA, HNP3 SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
37 PPL TO COLCOCKUM, CAP/NRG X	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
38 PPL TO PSP&L, PWR SALE 2	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
39 PEND 0 TO SCL, PWR SALE	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
40 PGE TO BPA, HNP3 SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
41 PGE TO CHELAN, CAP/NRG XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
42 PGE TO PPL, COVE REPLACE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
43 PSP&L TO BPA, HNP3 SETTLE	0	0	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	32
44 PSP&L TO BPA, POWER SALE	0	0	0	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	58
45 PSP&L TO BPA, SEAS PWR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 SCL TO PEND 0, PWR SALE	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
47 SCL TO IDAHO, SEAS PWR XCHG	54	54	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
48 SCL TO TACOMA, SEAS PWR XCHG	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	14
49 SNOH TO PSP&L, SP PURCHASE	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5

TABLE A-16 (CONTINUED)

CONTRACTS BETWEEN UTILITIES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR		MAY	JUN	JUL	
	1-15	16-31								1-15	16-30				
50 TCL TO SEATTLE, SEAS PWR XCH	50	50	0	0	0	0	0	0	0	0	0	0	0	0	4
51 WWP TO BPA, WNP3 SETTLE	0	0	36	36	36	36	36	36	36	36	36	0	36	0	27
52 WWP TO PP&L, PWR SALE	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
53 WWP TO PP&L, SANDPOINT PWR	2	2	2	2	3	3	3	3	2	2	2	2	2	2	2
54 WWP TO PEND OREILLE, SALE	10	10	10	10	10	10	10	11	10	11	10	10	10	10	10
55 WWP TO PGE, CAPACITY SALE	0	0	0	108	108	108	108	108	108	108	0	0	0	0	58
56 WWP TO PSP&L, PWR SALE 2	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
57 TOTAL CONTRACTS	1087	1087	1233	1767	2091	2172	2111	2024	1745	1352	1135	688	856	1005	1502
TOTAL CONTRACTS OUT															
58 FEDERAL CONTRACTS OUT	409	409	438	654	985	1039	1013	945	753	487	487	192	203	338	621
59 PUBLIC CONTRACTS OUT W/CLOK	171	171	74	105	55	60	60	56	57	58	58	60	69	167	83
60 PRIVATE CONTRACTS OUT	507	507	721	1008	1051	1073	1038	1023	935	807	590	436	584	500	798
61 TOTAL CONTRACTS OUT	1087	1087	1233	1767	2091	2172	2111	2024	1745	1352	1135	688	856	1005	1502
TOTAL CONTRACTS IN															
62 FEDERAL CONTRACTS IN	29	29	260	368	368	368	368	368	368	368	260	29	180	29	254
63 PUBLIC CONTRACTS IN W/CLOK	129	129	83	133	119	136	135	145	83	84	83	83	80	72	107
64 PRIVATE CONTRACTS IN	929	929	890	1266	1604	1668	1608	1511	1294	900	792	576	596	904	1141
65 TOTAL CONTRACTS IN	1087	1087	1233	1767	2091	2172	2111	2024	1745	1352	1135	688	856	1005	1502

NOTE: BPA TO PSP&L IS SHOWN AS A POWER SALE THROUGH JUNE 30, 2001. THE CONTRACT THEN CONVERTS TO A SEASONAL POWER EXCHANGE WHICH EXPIRES JULY 1, 2008.

CONTRACTS BETWEEN UTILITIES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

AUG 1-15 16-31 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 16-30 APR 16-30 MAY JUN JUL

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 BPA TO CLARK, PKWD LAKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA TO MPC, HNP1 OBLIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA TO MPC, CAP/NRG XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA TO OTHER, PKWD LAKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO PP&L, CAPC SLE, BRIDGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA TO PP&L, SOUTHERN IDAHO	13	13	42	108	161	215	189	145	117	90	90	0	18	34
7 BPA TO PP&L, HNP1 OBLIG	0	0	0	0	158	158	158	158	79	79	79	0	0	0
8 BPA TO PGE, HNP3 SETTLE	0	0	0	0	155	155	155	155	77	77	77	0	0	0
9 BPA TO PGE, HNP1 OBLIG	0	0	0	0	2	2	2	2	0	0	0	0	0	0
10 BPA TO PGE, HNP3 SETTLE	0	0	0	0	150	150	150	150	150	0	0	0	0	0
11 BPA TO PSP&L, BAKER HD LOSS	0	0	0	0	81	82	81	82	40	40	40	0	0	0
12 BPA TO PSP&L, PS & PWR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BPA TO PSP&L, HNP1 OBLIG	0	0	0	0	78	78	78	78	39	39	39	0	0	0
14 BPA TO PSP&L, HNP3 SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 BPA TO WWP, SRPLS CAPAC SLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 BPA TO WWP, HNP1 OBLIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 BPA TO WWP, HNP3 SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CHELAN TO DOUG, CAP/NRG XCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 CHELAN TO PGE, C/N TRANS/XCH	8	7	1	0	0	0	0	0	0	0	0	0	0	0
20 COLOCKUM TO PP&L, CAP/NRG X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 COLOCKUM TO CHELAN, PK SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 DOUGLAS TO CHEL, CAP/NR XCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23 GRANT TO PP&L, PWR SALE	13	13	10	8	7	8	9	7	8	10	10	12	14	10
24 IDAHO TO OR TRAIL, RPLC SLE	7	7	10	10	11	5	6	6	6	6	6	6	6	6
25 IDAHO TO SCL, ENERGY XCHG	0	0	0	0	25	50	50	50	0	0	0	0	0	0
26 IDAHO TO MPC, SEAS PWR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 IDAHO TO MPC, PWR SALE	29	29	29	29	29	29	29	29	29	29	29	29	29	29
28 MPC TO BPA, CAP/NRG XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPC TO BPA, POWER SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 MPC TO ID, SEAS PWR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 MPC TO PP&L, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 MPC TO PSP&L, PWR SALE	77	77	77	77	77	77	77	77	77	77	77	77	77	77
33 MPC TO WWP, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 OTHER TO PSP&L, SP PURCHASE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35 NO WASCO TO PSP&L, SALE	3	3	3	3	3	3	3	3	3	3	3	3	3	3
36 PP&L TO BPA, WNP3 SETTLE	0	0	87	87	87	87	87	87	87	87	87	0	87	0
37 PP&L TO COLOCKUM, CAP/NRG X	23	23	23	23	23	23	23	23	23	23	23	23	23	23
38 PP&L TO PSP&L, PWR SALE 2	120	120	120	120	120	120	120	120	120	120	120	120	120	120
39 PEND 0 TO SCL, PWR SALE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
40 PGE TO BPA, WNP3 SETTLE	0	0	86	86	86	86	86	86	86	86	86	0	86	0
41 PGE TO CHELAN, CAP/NRG XCHG	0	0	0	0	10	11	10	11	3	3	3	0	3	0
42 PGE TO PP&L, COVE REPLACE	3	3	3	3	3	3	3	3	3	3	3	3	3	3
43 PSP&L TO BPA, WNP3 SETTLE	0	0	43	43	43	43	43	43	43	43	43	0	43	0
44 PSP&L TO BPA, POWER SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 PSP&L TO BPA, SEAS PWR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 SCL TO PEND 0, PWR SALE	26	26	27	27	27	27	27	27	27	27	27	27	26	26
47 SCL TO IDAHO, SEAS PWR XCHG	54	54	16	16	0	0	0	0	0	0	0	0	0	0
48 SCL TO TACOMA, SEAS PWR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 SNOH TO PSP&L, SP PURCHASE	3	3	4	4	5	7	7	6	6	5	5	4	4	3

TABLE A-16 (CONTINUED)

CONTRACTS BETWEEN UTILITIES
1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
50 TCL TO SEATTLE, SEAS PWR XCH	50	50	0	0	0	0	0	0	0	0	0	0	0	0	4
51 WWP TO BPA, WNP3 SETTLE	0	0	43	43	43	43	43	43	43	43	43	0	43	0	32
52 WWP TO PP&L, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 WWP TO PP&L, SANDPOINT PWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 WWP TO PEND OREILLE, SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 WWP TO PGE, CAPACITY SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56 WWP TO PSP&L, PWR SALE 2	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
57 TOTAL CONTRACTS	518	518	713	960	1473	1549	1525	1480	1152	899	899	393	679	535	990
TOTAL CONTRACTS OUT															
58 FEDERAL CONTRACTS OUT	13	13	42	258	785	840	813	770	502	325	325	0	18	34	367
59 PUBLIC CONTRACTS OUT W/CLOK	171	171	75	106	56	59	60	57	58	59	59	60	69	168	83
60 PRIVATE CONTRACTS OUT	334	334	596	596	632	650	652	653	592	515	515	333	592	333	540
61 TOTAL CONTRACTS OUT	518	518	713	960	1473	1549	1525	1480	1152	899	899	393	679	535	990
TOTAL CONTRACTS IN															
62 FEDERAL CONTRACTS IN	29	29	288	288	288	288	288	288	288	288	288	29	288	29	223
63 PUBLIC CONTRACTS IN W/CLOK	119	120	73	123	109	127	129	130	69	69	69	69	68	68	96
64 PRIVATE CONTRACTS IN	370	369	352	549	1076	1134	1108	1062	795	542	542	295	323	438	670
65 TOTAL CONTRACTS IN	518	518	713	960	1473	1549	1525	1480	1152	899	899	393	679	535	990

NOTE: BPA TO PSP&L IS SHOWN AS A POWER SALE THROUGH JUNE 30, 2001. THE CONTRACT THEN CONVERTS TO A SEASONAL POWER EXCHANGE WHICH EXPIRES JULY 1, 2008.

CONTRACTS BETWEEN UTILITIES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15		AUG 16-31		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 BPA TO CLARK, PKMD LAKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA TO MPC, HNP1 OBLIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA TO MPC, CAP/NRG XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA TO OTHER, PKMD LAKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO PP&L, CAP SLE BRIDGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA TO PP&L, SOUTHERN IDAHO	13	13	42	108	161	157	158	155	155	145	117	90	90	0	18	34
7 BPA TO PP&L, HNP1 OBLIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA TO PP&L, HNP3 SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 BPA TO PGE, HNP1 OBLIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 BPA TO PGE, HNP3 SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 BPA TO PSP&L, BAKER HD LOSS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 BPA TO PSP&L, PS & PMR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BPA TO PSP&L, HNP1 OBLIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 BPA TO PSP&L, HNP3 SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 BPA TO WMP, SRPLS CAPAC SLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 BPA TO WMP, HNP1 OBLIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 BPA TO WMP, HNP3 SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 CHELAN TO DOUG, CAP/NRG XCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 CHELAN TO PGE, C/N TRANS/XCH	8	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
20 COLOCKUM TO PP&L, CAP/NRG X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 COLOCKUM TO CHELAN, PK SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 DOUGLAS TO CHEL, CAP/NR XCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23 GRANT TO PP&L, PMR SALE	13	13	10	8	7	8	8	8	9	7	8	10	10	13	14	14
24 IDAHO TO OR TRAIL, RPLC SLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 IDAHO TO SCL, ENERGY XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 IDAHO TO MPC, SEAS PMR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 IDAHO TO MPC, PMR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 MPC TO BPA, CAP/NRG XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPC TO BPA, POWER SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 MPC TO ID, SEAS PMR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 MPC TO PP&L, PMR SALE	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
32 MPC TO PP&L, PMR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 MPC TO WMP, PMR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 OTHER TO PSP&L, SP PURCHASE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
35 NO WASCO TO PSP&L, SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 PP&L TO BPA, HNP3 SETTLE	0	0	87	87	87	87	87	87	87	87	87	87	87	87	87	87
37 PP&L TO COLOCKUM, CAP/NRG X	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
38 PP&L TO PSP&L, PMR SALE 2	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
39 PEND 0 TO SCL, PMR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 PGE TO BPA, HNP3 SETTLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 PGE TO CHELAN, CAP/NRG XCHG	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
42 PGE TO PP&L, COVE REPLACE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 PSP&L TO BPA, HNP3 SETTLE	0	0	43	43	43	43	43	43	43	43	43	43	43	43	43	43
44 PSP&L TO BPA, POWER SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 PSP&L TO BPA, SEAS PMR XCHG	151	152	151	152	151	152	151	152	151	152	151	152	151	152	151	152
46 SCL TO PEND 0, PMR SALE	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
47 SCL TO IDAHO, SEAS PMR XCHG	54	54	16	50	0	0	0	0	0	0	0	0	0	0	0	0
48 SCL TO TACOMA, SEAS PMR XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 SNDR TO PSP&L, SP PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A-16 (CONTINUED)

CONTRACTS BETWEEN UTILITIES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
50 TCL TO SEATTLE, SEAS PWR XCH	50	50	0	0	0	0	0	0	0	0	0	0	0	0	4
51 WWP TO BPA, WNP3 SETTLE	0	0	43	43	43	43	43	43	43	43	43	0	43	0	32
52 WWP TO PP&L, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 WWP TO PP&L, SANDPOINT PWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 WWP TO PEND OREILLE, SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 WWP TO PGE, CAPACITY SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56 WWP TO PSP&L, PWR SALE 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57 TOTAL CONTRACTS	532	532	722	820	1183	1240	1214	1168	742	641	641	136	422	330	762
TOTAL CONTRACTS OUT															
58 FEDERAL CONTRACTS OUT	13	13	42	108	784	839	812	769	352	326	326	0	18	34	341
59 PUBLIC CONTRACTS OUT W/CLOK	168	167	70	101	50	51	52	50	51	53	53	56	65	65	69
60 PRIVATE CONTRACTS OUT	351	352	610	611	349	350	350	349	339	262	262	80	339	231	352
61 TOTAL CONTRACTS OUT	532	532	722	820	1183	1240	1214	1168	742	641	641	136	422	330	762
TOTAL CONTRACTS IN															
62 FEDERAL CONTRACTS IN	151	152	410	411	259	259	259	259	259	259	259	0	259	151	245
63 PUBLIC CONTRACTS IN W/CLOK	90	90	40	90	50	51	51	50	40	40	40	40	40	40	52
64 PRIVATE CONTRACTS IN	291	290	272	319	874	930	904	859	443	342	342	96	123	139	466
65 TOTAL CONTRACTS IN	532	532	722	820	1183	1240	1214	1168	742	641	641	136	422	330	762

NOTE: BPA TO PSP&L IS SHOWN AS A POWER SALE THROUGH JUNE 30, 2001. THE CONTRACT THEN CONVERTS TO A SEASONAL POWER EXCHANGE WHICH EXPIRES JULY 1, 2008.

TABLE A-17

CAPACITY RESERVES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1993 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 HYDRO, SM THML, C-T, & MISC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 AREA RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDRO, SMALL THERMAL, COMBUSTION TURBINES, & MISCELLANEOUS RESERVES															
4 FEDERAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 TOTAL HYDRO & MISC. RES.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL HYDRO, SMALL THERMAL, COMBUSTION TURBINES, & MISCELLANEOUS RESERVES															
23 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 PUBLIC AGENCIES W/COLOCKUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 TOTAL HYDRO & MISC. RES.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE A-17 (CONTINUED)

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

CAPACITY RESERVES
1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
LARGE THERMAL RESERVES														
27 FEDERAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 COHLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 TOTAL LARGE THERMAL RES.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LARGE THERMAL RESERVES														
45 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 TOTAL THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A-17

CAPACITY RESERVES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 HYDRO, SM THML, C-T, & MISC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 AREA RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDRO, SMALL THERMAL, COMBUSTION TURBINES, & MISCELLANEOUS RESERVES															
4 FEDERAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 TOTAL HYDRO & MISC. RES.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL HYDRO, SMALL THERMAL, COMBUSTION TURBINES, & MISCELLANEOUS RESERVES															
23 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 PUBLIC AGENCIES W/COLOCKUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 TOTAL HYDRO & MISC. RES.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE A-17 (CONTINUED)

CAPACITY RESERVES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

LARGE THERMAL RESERVES

27 FEDERAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 TOTAL LARGE THERMAL RES.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LARGE THERMAL RESERVES

45 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 TOTAL THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE A-17

CAPACITY RESERVES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 HYDRO, SM THML, C-T, & MISC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 LARGE THERMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 AREA RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HYDRO, SMALL THERMAL, COMBUSTION TURBINES, & MISCELLANEOUS RESERVES

4 FEDERAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 COHLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 TOTAL HYDRO & MISC. RES.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL HYDRO, SMALL THERMAL, COMBUSTION TURBINES, & MISCELLANEOUS RESERVES

23 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 PUBLIC AGENCIES W/COLOCKUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 TOTAL HYDRO & MISC. RES.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE A-17 (CONTINUED)

CAPACITY RESERVES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

LARGE THERMAL RESERVES

27 FEDERAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 TOTAL LARGE THERMAL RES.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LARGE THERMAL RESERVES

45 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 PUBLIC AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 TOTAL THERMAL RESERVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A-18

WELLS AND CHELAN ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 WELLS	475	425	379	383	478	462	539	417	451	394	375	541	331	371	432
2 WELLS AFTER ENC.	428	379	335	339	431	415	490	371	404	349	330	492	290	327	386
3 PP&L SHARE	33	29	26	26	33	32	38	29	31	27	25	38	22	25	30
4 PGE SHARE	97	86	76	77	98	94	111	84	92	79	75	112	66	74	88
5 PSP&L SHARE	149	132	116	118	150	145	171	129	141	121	115	171	101	114	135
6 WWP SHARE	17	15	13	13	17	16	19	14	16	14	13	19	11	13	15
7 DOUGLS SHARE	98	87	77	78	99	95	112	85	92	80	76	113	67	75	89
8 OKANOG CO. PUD SHARE PUB	34	30	27	27	34	33	39	30	32	28	26	39	23	26	31
9 WELLS AFTER ENC. DGLS	428	379	335	339	431	415	490	371	404	349	330	492	290	327	386
10 CHELAN	48	24	39	42	47	38	51	50	6	46	34	1	3	34	32
11 CHELAN AFTER ENC.	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
12 TO CHELAN FR WWP CONTRACT	18	18	17	21	21	21	21	23	21	21	21	12	19	0	18
13 CHELAN SH OF CHELAN PROJ	0	0	0	0	0	0	0	0	0	0	0	0	0	37	3
14 CHELAN SHARE (PROJ+CONT)	18	17	17	20	21	21	21	23	21	20	21	11	19	37	21
15 WWP SHARE	33	10	25	24	28	20	33	31	-11	30	17	-6	-13	0	15
16 CHELAN AFTER ENC. CHLN	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35

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HELLS AND CHELAN ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 WELLS	407	410	370	374	458	458	542	429	468	406	370	541	427	361	435
2 WELLS AFTER ENC.	361	365	326	330	412	411	493	383	421	361	325	492	382	317	389
3 PP&L SHARE	28	28	25	25	32	32	38	29	32	28	25	38	29	24	30
4 PGE SHARE	82	83	74	75	94	93	112	87	96	82	74	112	87	72	89
5 PSP&L SHARE	125	127	113	115	143	143	172	133	146	125	113	171	133	111	135
6 WWP SHARE	14	14	13	13	16	16	19	15	17	14	13	19	15	12	15
7 DOUGLS SHARE	83	84	75	76	94	94	113	88	96	83	74	113	87	73	89
8 OKANOG CO. PUD SHARE PUB	29	29	26	26	33	33	39	31	34	29	26	39	31	25	31
9 WELLS AFTER ENC. DGLS	361	365	326	330	412	411	493	383	421	361	325	492	382	317	389
10 CHELAN	48	24	39	42	47	38	51	50	6	46	34	1	3	34	32
11 CHELAN AFTER ENC.	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
12 TO CHELAN FR WWP CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 CHELAN SH OF CHELAN PROJ	51	27	42	44	49	41	54	54	10	50	38	5	6	37	36
14 CHELAN SHARE (PROJ+CONT)	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
15 WWP SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 CHELAN AFTER ENC. CHLN	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35

TABLE A-18

HELLS AND CHELAN ALLOCATION
2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 HELLS	407	410	370	374	458	458	542	429	468	406	370	541	427	361	435
2 HELLS AFTER ENC.	361	365	326	330	412	411	493	383	421	361	325	492	382	317	389
3 PP&L SHARE	28	28	25	25	32	32	38	29	32	28	25	38	29	24	30
4 PGE SHARE	82	83	74	75	94	93	112	87	96	82	74	112	87	72	89
5 PSP&L SHARE	125	127	113	115	143	143	172	133	146	125	113	171	133	111	135
6 WWP SHARE	14	14	13	13	16	16	19	15	17	14	13	19	15	12	15
7 DOUGLS SHARE	83	84	75	76	94	94	113	88	96	83	74	113	87	73	89
8 OKANOG CO. PUD SHARE PUB	29	29	26	26	33	33	39	31	34	29	26	39	31	25	31
9 HELLS AFTER ENC. DGLS	361	365	326	330	412	411	493	383	421	361	325	492	382	317	389
10 CHELAN	48	24	39	42	47	38	51	50	6	46	34	1	3	34	32
11 CHELAN AFTER ENC.	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
12 TO CHELAN FR WWP, CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 CHELAN SH OF CHELAN PROJ	51	27	42	44	49	41	54	54	10	50	38	5	6	37	36
14 CHELAN SHARE (PROJ+CONT)	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
15 WWP SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 CHELAN AFTER ENC. CHLN	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35

TABLE A-18

WELLS AND CHELAN ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 WELLS	407	410	370	374	458	458	542	429	468	406	370	541	427	361	435
2 WELLS AFTER ENC.	361	365	326	330	412	411	493	383	421	361	325	492	382	317	389
3 PP&L SHARE	28	28	25	25	32	32	38	29	32	28	25	38	29	24	30
4 PGE SHARE	82	83	74	75	94	93	112	87	96	82	74	112	87	72	89
5 PSP&L SHARE	125	127	113	115	143	143	172	133	146	125	113	171	133	111	135
6 WWP SHARE	14	14	13	13	16	16	19	15	17	14	13	19	15	12	15
7 DOUGLS SHARE	83	84	75	76	94	94	113	88	96	83	74	113	87	73	89
8 OKANOG CO. PUD SHARE PUB	29	29	26	26	33	33	39	31	34	29	26	39	31	25	31
9 WELLS AFTER ENC. DGLS	361	365	326	330	412	411	493	383	421	361	325	492	382	317	389
10 CHELAN	48	24	39	42	47	38	51	50	6	46	34	1	3	34	32
11 CHELAN AFTER ENC.	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
12 TO CHELAN FR WWP, CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 CHELAN SH OF CHELAN PROJ	51	27	42	44	49	41	54	54	10	50	38	5	6	37	36
14 CHELAN SHARE (PROJ+CONT)	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35
15 WWP SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 CHELAN AFTER ENC. CHLN	51	27	42	44	49	41	54	54	10	50	38	5	6	37	35

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TABLE A-19

ROCKY REACH AND ROCK ISLAND ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1990 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 ROCKY REACH	571	550	496	503	625	623	759	594	639	562	549	820	595	528	608
2 ROCKY REACH AFTER ENC.	588	568	513	521	644	641	778	611	656	578	566	838	613	546	626
3 PP&L SHARE	31	30	27	28	34	34	41	32	35	31	30	44	32	29	33
4 PGE SHARE	71	68	61	62	77	77	93	73	79	69	68	101	74	65	75
5 PSP&L SHARE	229	221	200	203	251	249	303	238	255	225	220	326	238	212	244
6 HWP SHARE	17	16	15	15	19	19	23	18	19	17	16	24	18	16	18
7 DOUGLS SHARE	16	16	14	14	18	18	21	17	18	16	16	23	17	15	17
8 CHELAN SHARE	89	86	78	79	97	97	118	92	99	87	86	127	93	83	95
9 COLOCK SHARE	135	131	118	120	148	147	179	141	151	133	130	193	141	126	144
10 RKY REACH AFTER ENC. CHLN	588	568	513	521	644	641	778	611	656	578	566	838	613	546	626
11 ROCK ISLAND	278	267	243	246	302	300	366	285	306	271	269	397	300	263	296
12 ROCK ISLAND AFTER ENC. 1&2	347	337	310	314	372	369	435	354	375	341	339	465	369	333	365
13 1ST PWRHOUSE AFTER ENC.	232	231	223	226	236	236	229	234	237	231	231	223	236	230	231
14 CHELAN SHARE	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
15 PSP&L SHARE	222	221	214	216	226	226	219	223	227	222	221	214	226	220	221
16 RI 2ND POWERHOUSE	115	106	86	88	135	133	206	121	139	109	108	242	134	102	134
17 CHELAN SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PSP&L SHARE	115	106	86	88	135	133	206	121	139	109	108	242	134	102	134
19 CHELAN TOTAL SHARE	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10
20 PSP&L TOTAL SHARE	337	327	300	304	362	359	425	344	365	331	329	456	359	323	355
21 ROCK ISLAND CHLN	347	337	310	314	372	369	435	354	375	341	339	465	369	333	365

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ROCKY REACH AND ROCK ISLAND ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	AUG 1-15		AUG 16-31		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15		APR 16-30		MAY	JUN	JUL	
	571	588	550	568	496	503	625	623	759	594	639	562	549	820	595	820	613	528	
1 ROCKY REACH AFTER ENC.																			608
2 ROCKY REACH AFTER ENC.																			626
3 PP&L SHARE	31	71	30	68	27	28	34	34	41	32	35	31	30	44	32	44	32	29	33
4 PGE SHARE	71	229	68	221	61	62	77	77	93	73	79	69	68	101	74	101	74	65	75
5 PSP&L SHARE	17	16	16	16	15	15	19	19	23	18	19	17	16	24	18	24	18	16	18
6 WMP SHARE	16	16	16	16	14	14	18	18	21	17	18	16	16	23	17	23	17	15	17
7 DOUGLS SHARE	89	86	86	86	78	79	97	97	118	92	99	87	86	127	93	127	93	83	95
8 CHELAN SHARE	135	131	131	131	118	120	147	147	179	141	151	133	130	193	141	193	141	126	144
9 COLOCK SHARE																			
10 RKY REACH AFTER ENC. CHLN	588	568	568	568	513	521	644	641	778	611	656	578	566	838	613	838	613	546	626
11 ROCK ISLAND AFTER ENC. 182	278	347	267	337	243	246	302	300	366	285	306	271	269	397	300	397	300	263	296
12 ROCK ISLAND AFTER ENC. 182																			365
13 1ST PWRHOUSE AFTER ENC.	232	10	231	10	223	226	236	236	229	234	237	231	231	223	236	223	236	230	231
14 CHELAN SHARE	10	222	10	221	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
15 PSP&L SHARE	222	221	221	221	214	216	226	226	219	223	227	222	221	214	226	214	226	226	221
16 RI 2ND POWERHOUSE	115	46	106	42	86	88	135	133	206	121	139	109	108	242	134	242	134	102	134
17 CHELAN SHARE	46	69	42	64	34	35	54	53	82	48	55	44	43	97	53	97	53	51	54
18 PSP&L SHARE	69	291	64	285	52	53	81	80	123	72	83	65	65	145	80	145	80	51	79
19 CHELAN TOTAL SHARE	56	291	52	285	44	45	65	63	92	58	65	54	53	106	63	106	63	61	64
20 PSP&L TOTAL SHARE	291	347	285	337	266	269	307	306	343	296	310	287	286	359	306	359	306	272	301
21 ROCK ISLAND	347	347	337	337	310	314	372	369	435	354	375	341	339	465	369	465	369	333	365

TABLE A-20

WANAPUM AND PRIEST RAPIDS ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR													
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 WANAPUM	503	514	456	464	589	563	678	513	548	485	505	534	432	463
2 WANAPUM AFTER ENC.	430	440	384	392	515	489	605	439	474	411	431	459	361	389
3 PP&L SHARE	80	82	72	73	96	92	113	82	89	77	81	86	67	73
4 PGE SHARE	80	82	72	73	96	92	113	82	89	77	81	86	67	73
5 PSP&L SHARE	47	48	41	42	56	53	65	48	51	44	46	50	39	42
6 WMP SHARE	35	36	31	32	42	40	50	36	39	34	35	38	30	32
7 GRANT SHARE	157	161	140	143	188	179	221	160	173	150	157	168	132	142
8 EUGENE SHARE	10	10	9	9	12	11	14	10	11	11	10	10	8	9
9 COWLIZ SHARE	12	12	10	11	14	13	17	12	13	11	12	12	10	10
10 F GROV SHARE	3	3	3	3	4	3	4	3	3	3	3	3	3	3
11 MCMINN SHARE	3	3	3	3	4	3	4	3	3	3	3	3	3	3
12 M FREE SHARE	3	3	3	3	3	3	4	3	3	3	3	3	2	2
13 WANAPUM AFTER ENC. GRNT	430	440	384	392	515	489	605	439	474	411	431	459	361	389
14 PRIEST RAPIDS	488	506	455	462	572	550	648	505	537	479	497	499	433	457
15 PRIEST RAPIDS AFTER ENC.	471	490	439	446	556	533	632	489	520	463	481	483	417	440
16 PP&L SHARE	66	68	61	62	77	74	88	68	72	65	67	67	58	61
17 PGE SHARE	65	68	61	62	77	74	88	68	72	65	67	67	58	61
18 PSP&L SHARE	38	39	35	36	44	43	51	39	42	37	38	39	33	35
19 SEATTL SHARE	38	39	35	36	45	43	50	39	42	37	39	39	34	35
20 TACOMA SHARE	38	39	35	36	45	43	50	39	42	37	39	39	34	35
21 WMP SHARE	29	30	27	27	34	32	38	30	32	28	29	30	26	27
22 GRANT SHARE	172	179	160	163	203	195	231	178	190	169	176	176	152	161
23 EUGENE SHARE	8	8	8	7	9	9	11	8	9	8	8	8	7	8
24 COWLIZ SHARE	9	10	9	9	11	11	13	10	10	9	10	10	8	9
25 F GROV SHARE	2	2	2	2	3	3	3	2	2	2	2	2	2	2
26 MCMINN SHARE	2	3	2	2	3	2	3	3	2	2	2	2	2	2
27 M FREE SHARE	2	3	2	2	3	2	3	3	2	2	2	2	2	2
28 KITATS SHARE	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29 PRST RPDS AFTER ENC. GRNT	471	490	439	446	556	533	632	489	520	463	481	483	417	440
509	509	492	492	492	492	492	492	492	492	492	492	492	492	492

TABLE A-20

WANAPUM AND PRIEST RAPIDS ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15		AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
	1 WANAPUM	514	494	444	451	563	558	682	529	570	501	497	749	558	485
2 WANAPUM AFTER ENC.	441	420	372	379	489	485	608	455	497	427	423	674	484	412	476
3 PP&L SHARE	83	79	70	71	92	91	114	85	93	80	79	126	91	77	89
4 PGE SHARE	82	79	70	71	92	91	114	85	93	80	79	126	91	77	89
5 PSP&L SHARE	48	45	40	41	53	52	66	49	54	46	46	73	52	44	51
6 WHP SHARE	36	34	30	31	40	40	50	38	41	35	35	55	40	34	39
7 GRANT SHARE	161	153	136	138	179	177	222	166	181	156	154	246	177	150	174
8 EUGENE SHARE	10	10	8	9	11	11	14	11	11	10	10	15	11	10	11
9 COMLIZ SHARE	12	11	10	10	13	13	16	12	13	11	11	18	13	11	13
10 F GROV SHARE	3	3	3	3	3	3	4	3	3	3	3	5	3	3	3
11 MCMINN SHARE	3	3	3	3	3	3	4	3	4	3	3	5	3	3	3
12 M FREE SHARE	3	3	2	2	3	4	4	3	4	3	3	5	3	3	3
13 WANAPUM AFTER ENC.	441	420	372	379	489	485	608	455	497	427	423	674	484	412	476
14 PRIEST RAPIDS	420	488	444	451	550	546	651	519	557	494	491	499	546	445	513
15 PRIEST RAPIDS AFTER ENC.	404	472	428	435	534	529	635	503	540	478	475	483	529	429	497
16 PP&L SHARE	56	66	60	60	74	74	88	70	75	67	66	67	74	60	69
17 PGE SHARE	56	66	60	60	74	74	88	70	75	67	66	67	74	60	69
18 PSP&L SHARE	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40
19 SEATTL SHARE	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40
20 TACOMA SHARE	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40
21 WHP SHARE	25	29	26	27	32	32	39	31	33	29	29	30	32	26	30
22 GRANT SHARE	148	172	156	159	195	193	232	183	197	175	173	176	193	157	181
23 EUGENE SHARE	7	8	7	7	9	9	11	9	9	8	8	8	9	7	8
24 COMLIZ SHARE	8	9	9	9	11	10	13	10	11	10	10	10	11	9	10
25 F GROV SHARE	2	2	2	2	3	3	3	3	3	2	2	2	3	2	2
26 MCMINN SHARE	2	2	2	2	3	3	3	3	3	2	2	2	3	2	2
27 M FREE SHARE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
28 KITATS SHARE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29 PRST RPDS AFTER ENC.	404	472	428	435	534	529	635	503	540	478	475	483	529	429	497

TABLE A-20

WANAPUM AND PRIEST RAPIDS ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 WANAPUM	514	494	444	451	563	558	682	529	570	501	497	749	558	485	549
2 WANAPUM AFTER ENC.	441	420	372	379	489	485	608	455	497	427	423	674	484	412	476
3 PP&L SHARE	83	79	70	71	92	91	114	85	93	80	79	126	91	77	89
4 PGE SHARE	82	79	70	71	92	91	114	85	93	80	79	126	91	77	89
5 PSP&L SHARE	48	45	40	41	53	52	66	49	54	46	46	73	52	44	51
6 WWP SHARE	36	34	30	31	40	40	50	38	41	35	35	55	40	34	39
7 GRANT SHARE	161	153	136	138	179	177	222	166	181	156	154	246	177	150	174
8 EUGENE SHARE	10	10	8	9	11	11	14	11	11	10	10	15	11	10	11
9 COWLIZ SHARE	12	11	10	10	13	13	16	12	13	11	11	18	13	11	13
10 F GROV SHARE	3	3	3	3	3	3	4	3	3	3	3	5	3	3	3
11 MCMINN SHARE	3	3	3	3	3	3	4	3	4	3	3	5	3	3	3
12 M FREE SHARE	3	3	2	2	3	4	4	3	4	3	3	5	3	3	3
13 WANAPUM AFTER ENC. GRNT	441	420	372	379	489	485	608	455	497	427	423	674	484	412	476
14 PRIEST RAPIDS	420	488	444	451	550	546	651	519	557	494	491	499	546	445	513
15 PRIEST RAPIDS AFTER ENC.	404	472	428	435	534	529	635	503	540	478	475	483	529	429	497
16 PP&L SHARE	56	66	60	60	74	74	88	70	75	67	66	67	74	60	69
17 PGE SHARE	56	66	60	60	74	74	88	70	75	67	66	67	73	60	69
18 PSP&L SHARE	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40
19 SEATTL SHARE	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40
20 TACOMA SHARE	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40
21 WWP SHARE	25	29	26	27	32	32	39	31	33	29	29	30	32	26	30
22 GRANT SHARE	148	172	156	159	195	193	232	183	197	175	173	176	193	157	181
23 EUGENE SHARE	7	8	7	7	9	9	11	9	9	8	8	8	9	7	8
24 COWLIZ SHARE	8	9	9	9	11	10	13	10	11	10	10	10	11	9	10
25 F GROV SHARE	2	2	2	2	3	3	3	3	3	2	2	2	3	2	2
26 MCMINN SHARE	2	2	2	2	3	3	3	3	3	2	2	2	3	2	2
27 M FREE SHARE	2	2	2	2	2	3	3	2	3	2	3	2	3	2	2
28 KITATS SHARE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29 PRST RPDS AFTER ENC. GRNT	404	472	428	435	534	529	635	503	540	478	475	483	529	429	497

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TABLE A-21

SWIFT 1 AND SWIFT 2 ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1993 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	SWIFT 1	26	23	35	49	67	59	63	90	64	92	90	0	45	25	51
2	COWLIZ SHARE	7	6	9	13	17	15	16	23	17	24	23	0	12	6	13
3	PP&L SHARE (SYSTEM)	19	17	26	36	50	44	47	67	47	68	67	0	33	19	38
4	SWIFT 1 PP&L	26	23	35	49	67	59	63	90	64	92	90	0	45	25	51
5	SWIFT 2	7	6	10	16	23	22	24	33	24	33	31	0	13	7	18
6	COWLIZ SHARE	2	1	3	4	6	6	6	9	6	8	8	0	3	2	5
7	PP&L SHARE (SYSTEM)	5	5	7	12	17	16	18	24	18	25	23	0	10	5	13
8	SWIFT 2 COW	7	6	10	16	23	22	24	33	24	33	31	0	13	7	18

TABLE A-21

SWIFT 1 AND SWIFT 2 ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	SWIFT 1	26	23	35	49	67	59	63	90	64	92	90	0	45	25	51
2	COWLIZ SHARE	7	6	9	13	17	15	16	23	17	24	23	0	12	6	13
3	PP&L SHARE (SYSTEM)	19	17	26	36	50	44	47	67	47	68	67	0	33	19	38
4	SWIFT 1 PP&L	26	23	35	49	67	59	63	90	64	92	90	0	45	25	51
5	SWIFT 2	7	6	10	16	23	22	24	33	24	33	31	0	13	7	18
6	COWLIZ SHARE	2	1	3	4	6	6	6	9	6	8	8	0	3	2	5
7	PP&L SHARE (SYSTEM)	5	5	7	12	17	16	18	24	18	25	23	0	10	5	13
8	SWIFT 2 COW	7	6	10	16	23	22	24	33	24	33	31	0	13	7	18

TABLE A-21

SWIFT 1 AND SWIFT 2 ALLOCATION

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

		AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL	
		1-15	16-31								1-15	16-30				
1	SWIFT 1	26	23	35	49	67	59	63	90	64	92	90	0	45	25	51
2	COWLIZ SHARE	7	6	9	13	17	15	16	23	17	24	23	0	12	6	13
3	PP&L SHARE (SYSTEM)	19	17	26	36	50	44	47	67	47	68	67	0	33	19	38
4	SWIFT 1 PP&L	26	23	35	49	67	59	63	90	64	92	90	0	45	25	51
5	SWIFT 2	7	6	10	16	23	22	24	33	24	33	31	0	13	7	18
6	COWLIZ SHARE	2	1	3	4	6	6	6	9	6	8	8	0	3	2	5
7	PP&L SHARE (SYSTEM)	5	5	7	12	17	16	18	24	18	25	23	0	10	5	13
8	SWIFT 2 COW	7	6	10	16	23	22	24	33	24	33	31	0	13	7	18

TABLE A-22

POWER SALES CONTRACTS SALES BY BPA

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1993 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

PUBLIC UTILITIES
 PRIORITY FIRM RATE SALES

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 COWLITZ COUNTY PUD #1	453	454	444	470	492	502	524	507	506	481	480	487	456	468
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BOARD	190	190	205	228	273	297	303	287	264	236	236	218	201	197
5 GRANT COUNTY PUD #2	21	21	19	20	23	29	29	26	22	21	21	21	22	21
6 PEND OREILLE COUNTY PUD #1	38	42	26	21	43	44	56	34	41	22	16	10	22	33
7 SEATTLE CITY LIGHT	170	170	171	197	222	233	244	223	226	205	205	181	171	172
8 SNOHOMISH COUNTY PUD #1	380	380	417	485	642	686	734	665	599	523	523	473	416	368
9 TACOMA PUBLIC UTILITIES	236	236	238	268	310	330	330	319	305	280	280	252	235	233
10 SM & NON GEN PUBLICS	3014	3015	2820	2901	3354	3723	3850	3623	3304	3123	3125	3002	2963	3122
11 TOTAL SALES	4502	4508	4340	4589	5359	5844	6070	5684	5265	4891	4886	4643	4487	4614

PRIVATE UTILITIES
 NEW RESOURCES RATE PURCHASES

12 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 TOTAL SALES	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A-22

POWER SALES CONTRACTS SALES BY BPA

M E D I U M L O A D S

1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PUBLIC UTILITIES															
PRIORITY FIRM RATE SALES															
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 COWLITZ COUNTY PUD #1	500	502	488	509	523	527	558	539	534	512	513	510	478	497	515
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BOARD	216	216	231	254	300	324	340	322	294	264	264	242	223	216	269
5 GRANT COUNTY PUD #2	33	33	29	30	34	43	44	40	33	31	31	31	34	32	34
6 PEND OREILLE COUNTY PUD #1	20	45	24	20	29	39	53	37	48	29	13	7	21	26	30
7 SEATTLE CITY LIGHT	253	253	254	290	322	335	361	330	333	302	302	266	252	250	296
8 SNOHOMISH COUNTY PUD #1	462	462	491	557	716	754	811	739	665	595	595	533	480	435	603
9 TACOMA PUBLIC UTILITIES	281	281	283	315	362	385	394	379	360	330	330	295	274	270	327
10 SM & NON GEN PUBLICS	3263	3262	3083	3156	3601	3956	4167	3915	3564	3358	3360	3212	3152	3330	3480
11 TOTAL SALES	5027	5053	4883	5131	5887	6361	6728	6300	5832	5421	5408	5095	4913	5056	5553
PRIVATE UTILITIES															
NEW RESOURCES RATE PURCHASES															
12 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 TOTAL SALES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE A-22

POWER SALES CONTRACTS SALES BY BPA

M E D I U M L O A D S

2003- 4 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

PUBLIC UTILITIES
 PRIORITY FIRM RATE SALES

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 COWLITZ COUNTY PUD #1	528	530	517	542	562	568	590	572	567	542	543	540	509	531
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BOARD	235	235	251	280	333	361	373	352	323	290	290	266	244	238
5 GRANT COUNTY PUD #2	56	56	50	52	59	73	74	67	57	54	54	54	59	56
6 PENO OREILLE COUNTY PUD #1	16	45	21	19	30	42	54	37	48	29	13	6	19	23
7 SEATTLE CITY LIGHT	321	321	322	372	417	436	466	425	430	390	390	344	325	321
8 SNOHOMISH COUNTY PUD #1	481	481	514	589	762	805	849	778	699	627	627	572	496	461
9 TACOMA PUBLIC UTILITIES	318	318	321	363	423	453	460	443	421	385	385	343	318	311
10 SM & NON GEN PUBLICS	3446	3445	3253	3351	3867	4266	4426	4160	3791	3557	3559	3404	3339	3526
11 TOTAL SALES	5401	5431	5249	5568	6453	7004	7293	6835	6336	5874	5861	5528	5308	5467

PRIVATE UTILITIES
 NEW RESOURCES RATE PURCHASES

12 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 TOTAL SALES	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE A-23

NON-UTILITY GENERATING RESOURCES

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BRD	0	0	0	5	5	4	0	1	2	9	9	37	37	11	9
5 GRANT COUNTY PUD #2	12	12	7	5	0	0	0	0	1	11	11	14	15	14	7
6 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 SEATTLE CITY LIGHT	121	121	75	28	4	5	10	12	28	88	88	134	141	138	65
8 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 TACOMA PUBLIC UTILITIES	53	53	33	15	0	0	0	0	4	35	35	49	55	59	25
10 SMALL & NON GEN PUBLICS	7	7	25	25	26	26	7	7	7	7	7	7	7	7	13
11 IDAHO POWER COMPANY DED	127	127	106	76	63	44	53	57	72	103	103	131	142	143	93
12 MONTANA POWER CO. REGIONAL	13	13	15	14	14	12	10	11	11	16	19	16	28	31	16
13 PACIFIC POWER & LIGHT DED	51	51	49	48	51	52	34	55	50	54	54	64	53	52	51
14 PORTLAND GENERAL ELECTRIC	19	19	20	23	31	34	33	32	31	32	32	30	25	20	27
15 PUGET SOUND POWER & LIGHT	641	641	653	653	653	652	653	653	653	641	641	257	562	641	609
16 WASHINGTON WATER POWER	67	66	67	67	68	70	70	71	73	74	74	48	49	69	66
17 TOTAL NON-UTILITY GEN	1111	1110	1050	959	915	899	870	899	932	1070	1073	787	1114	1185	983
TOTAL REGIONAL NON-UTILITY GENERATION															
18 PUBLIC AGENCIES	193	193	140	78	35	35	17	20	42	150	150	241	255	229	120
19 PRIVATE UTILITIES	918	917	910	881	880	864	853	879	890	920	923	546	859	956	863
20 TOTAL NON-UTILITY GEN	1111	1110	1050	959	915	899	870	899	932	1070	1073	787	1114	1185	983
SOME OF MONTANA POWER COMPANY'S NON-UTILITY GENERATION IS NOT INCLUDED IN THE REGION. ALL OF MONTANA'S RESOURCES ARE ASSUMED TO SERVE ALL OF THEIR LOADS. THEREFORE, NON-UTILITY GENERATION IS PRORATED TO THE PERCENT OF THEIR REGIONAL LOAD COMPARED TO THEIR TOTAL LOAD.															
21 MONTANA NON-REGIONAL NUG	23	23	23	25	24	24	26	25	28	26	23	26	60	55	30
UTAH POWER AND LIGHT'S NON-UTILITY GENERATION IS EXCLUDED FROM THIS TABLE SINCE NO INDIVIDUAL UTAH RESOURCES ARE MODELED IN THIS REPORT. UTAH'S REGIONAL LOAD IS ASSUMED TO SERVED WITH AN IMPORT OF POWER EQUAL TO THEIR LOAD.															
22 UTAH, NON-UTILITY GENERATION	8	8	8	7	7	6	5	6	7	7	7	11	14	11	8
TOTAL NON-UTILITY GENERATION WHICH MATCHES THE TOTAL NUG GENERATION IN THE 1992 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY, NON-UTILITY GENERATION SUMMARY.															
23 TOTAL NON-UTILITY GEN	1142	1141	1081	991	946	929	901	930	967	1103	1103	823	1189	1251	1021

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TABLE A-23

NON-UTILITY GENERATING RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR		MAY	JUN	JUL	
	1-15	16-31								1-15	16-30				
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BRD	0	0	0	5	6	4	0	1	2	9	9	37	37	11	9
5 GRANT COUNTY PUD #2	12	12	7	5	0	0	0	0	1	11	11	14	15	14	7
6 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 SEATTLE CITY LIGHT	121	121	76	28	4	5	10	12	28	88	88	134	142	138	65
8 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 TACOMA PUBLIC UTILITIES	54	54	33	15	0	0	0	0	4	35	35	49	55	59	25
10 SMALL & NON GEN PUBLICS	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
11 IDAHO POWER COMPANY DED	181	181	164	143	136	117	121	128	141	166	166	189	211	191	157
12 MONTANA POWER CO. REGIONAL	28	30	28	29	30	31	32	31	30	32	39	36	31	30	31
13 PACIFIC POWER & LIGHT DED	51	51	50	48	51	52	34	55	50	55	54	64	53	52	51
14 PORTLAND GENERAL ELECTRIC	19	19	20	23	31	34	33	32	31	32	32	30	25	20	27
15 PUGET SOUND POWER & LIGHT	632	632	644	644	645	644	644	644	644	632	632	249	553	632	601
16 WASHINGTON WATER POWER	67	67	67	67	68	70	70	72	73	74	74	48	49	69	66
17 TOTAL NON-UTILITY GEN	1173	1175	1097	1015	979	965	952	983	1012	1142	1148	858	1179	1224	1049
TOTAL REGIONAL NON-UTILITY GENERATION															
18 PUBLIC AGENCIES	195	195	124	61	18	17	18	21	43	151	151	242	257	230	115
19 PRIVATE UTILITIES	978	980	973	954	961	948	934	962	969	991	997	616	922	994	934
20 TOTAL NON-UTILITY GEN	1173	1175	1097	1015	979	965	952	983	1012	1142	1148	858	1179	1224	1049
SOME OF MONTANA POWER COMPANY'S NON-UTILITY GENERATION IS NOT INCLUDED IN THE REGION. ALL OF MONTANA'S RESOURCES ARE ASSUMED TO SERVE ALL OF THEIR LOADS. THEREFORE, NON-UTILITY GENERATION IS PRORATED TO THE PERCENT OF THEIR REGIONAL LOAD COMPARED TO THEIR TOTAL LOAD.															
21 MONTANA NON-REGIONAL NUG	55	53	57	57	54	52	51	52	55	56	49	52	57	56	54
UTAH POWER AND LIGHT'S NON-UTILITY GENERATION IS EXCLUDED FROM THIS TABLE SINCE NO INDIVIDUAL UTAH RESOURCES ARE MODELED IN THIS REPORT. UTAH'S REGIONAL LOAD IS ASSUMED TO SERVED WITH AN IMPORT OF POWER EQUAL TO THEIR LOAD.															
22 UTAH, NON-UTILITY GENERATION	8	8	8	7	7	6	5	6	7	7	7	11	14	11	8
TOTAL NON-UTILITY GENERATION WHICH MATCHES THE TOTAL NUG GENERATION IN THE 1992 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY, NON-UTILITY GENERATION SUMMARY.															
23 TOTAL NON-UTILITY GEN	1236	1236	1162	1079	1041	1023	1008	1041	1075	1205	1204	921	1251	1291	1111

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TABLE A-23

NON-UTILITY GENERATING RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BRD	0	0	0	5	6	4	0	1	2	9	9	37	37	11
5 GRANT COUNTY PUD #2	12	12	7	5	0	0	0	0	1	11	11	14	15	14
6 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 SEATTLE CITY LIGHT	121	121	76	28	4	5	10	12	28	88	88	134	142	138
8 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 TACOMA PUBLIC UTILITIES	53	54	33	15	0	0	0	0	4	35	35	49	55	59
10 SMALL & NON GEN PUBLICS	8	8	8	8	8	8	8	8	8	8	8	8	8	8
11 IDAHO POWER COMPANY DED	181	181	164	143	136	117	121	128	141	166	166	190	211	191
12 MONTANA POWER CO. REGIONAL	26	28	25	27	28	29	30	29	28	30	36	33	29	29
13 PACIFIC POWER & LIGHT DED	51	51	50	48	51	52	34	55	50	54	55	64	53	52
14 PORTLAND GENERAL ELECTRIC	19	19	20	23	31	34	33	32	31	32	32	30	25	20
15 PUGET SOUND POWER & LIGHT	632	632	644	644	644	644	644	644	644	632	632	249	553	632
16 WASHINGTON WATER POWER	8	8	8	8	9	11	11	13	14	15	15	13	14	6
17 TOTAL NON-UTILITY GEN	1111	1114	1035	954	917	904	891	922	951	1080	1087	821	1142	1160
TOTAL REGIONAL NON-UTILITY GENERATION														
18 PUBLIC AGENCIES	194	195	124	61	18	17	18	21	43	151	151	242	257	230
19 PRIVATE UTILITIES	917	919	911	893	899	887	873	901	908	929	936	579	885	930
20 TOTAL NON-UTILITY GEN	1111	1114	1035	954	917	904	891	922	951	1080	1087	821	1142	1160
SOME OF MONTANA POWER COMPANY'S NON-UTILITY GENERATION IS NOT INCLUDED IN THE REGION. ALL OF MONTANA'S RESOURCES ARE ASSUMED TO SERVE ALL OF THEIR LOADS. THEREFORE, NON-UTILITY GENERATION IS PRORATED TO THE PERCENT OF THEIR REGIONAL LOAD COMPARED TO THEIR TOTAL LOAD.														
21 MONTANA NON-REGIONAL NUG	57	55	60	59	56	54	53	54	57	58	52	55	59	57
UTAH POWER AND LIGHT'S NON-UTILITY GENERATION IS EXCLUDED FROM THIS TABLE SINCE NO INDIVIDUAL UTAH RESOURCES ARE MODELED IN THIS REPORT. UTAH'S REGIONAL LOAD IS ASSUMED TO SERVED WITH AN IMPORT OF POWER EQUAL TO THEIR LOAD.														
22 UTAH, NON-UTILITY GENERATION	8	8	8	7	7	6	5	6	7	7	7	11	14	11
TOTAL NON-UTILITY GENERATION WHICH MATCHES THE TOTAL NUG GENERATION IN THE 1992 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY, NON-UTILITY GENERATION SUMMARY.														
23 TOTAL NON-UTILITY GEN	1176	1177	1103	1020	981	964	949	982	1016	1145	1146	887	1216	1228

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TABLE A-24

DEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1990 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PUBLIC AGENCIES															
1 CHELAN COUNTY PUD #1	204	187	176	180	205	201	218	194	198	185	188	215	167	207	195
2 COWLITZ COUNTY PUD #1	39	38	40	46	57	54	61	63	55	61	62	31	42	36	49
3 DOUGLAS COUNTY PUD #1	112	98	87	88	112	108	128	96	104	90	87	131	75	86	101
4 EUGENE WATER & ELEC BOARD	51	50	49	51	53	57	57	52	55	59	56	86	85	59	59
5 GRANT COUNTY PUD #2	274	284	251	258	336	319	388	289	310	269	282	288	234	250	290
6 PEND OREILLE COUNTY PUD #1	-10	-14	1	12	-5	0	-9	3	0	15	21	22	8	-5	3
7 SEATTLE CITY LIGHT	710	675	733	906	759	801	800	920	863	967	1071	1019	1044	923	873
8 SNOHOMISH COUNTY PUD #1	121	121	124	125	122	128	132	196	142	154	154	108	122	124	133
9 TACOMA PUBLIC UTILITIES	297	289	340	403	381	530	448	405	341	353	447	331	339	313	376
10 SM & NON GEN PUBLIC (CL+GH)	118	117	142	145	159	148	141	134	139	137	135	146	108	100	135
11 TOTAL PUBLIC AGENCIES	1916	1845	1942	2215	2179	2345	2363	2352	2207	2290	2503	2377	2225	2093	2215
PRIVATE UTILITIES															
12 IDAHO POWER COMPANY	1197	1210	1487	1341	1186	1498	1512	1326	1300	1141	1144	1435	1299	1413	1345
13 MONTANA POWER CO. REGIONAL	280	282	397	429	439	447	419	402	372	331	380	297	320	298	371
14 PACIFIC POWER & LIGHT	2422	2411	2151	2267	2497	2620	2619	2821	2665	2448	2315	2240	2316	2410	2450
15 PORTLAND GENERAL ELECTRIC	634	614	593	576	740	868	813	837	681	622	619	700	569	592	684
16 PUGET SOUND POWER & LIGHT	1564	1440	1325	1343	1642	1687	1816	1673	1504	1320	1400	1490	1289	1419	1504
17 WASHINGTON WATER POWER	604	583	710	736	710	756	689	809	748	890	1069	961	882	641	768
18 TOTAL PRIVATE UTILITIES	6701	6540	6663	6692	7214	7876	7868	7868	7270	6752	6927	7123	6675	6773	7123
19 TOTAL DEDICATED RESOURCES	8617	8385	8605	8907	9393	10221	10231	10220	9477	9042	9430	9500	8900	8866	9338

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TABLE A-24

DEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1990 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PUBLIC AGENCIES															
1 CHELAN COUNTY PUD #1	239	211	214	219	247	238	269	246	210	234	220	225	197	220	228
2 COWLITZ COUNTY PUD #1	37	35	39	44	55	52	59	62	55	59	58	34	45	34	48
3 DOUGLAS COUNTY PUD #1	94	95	84	85	107	107	129	100	109	92	83	129	97	81	101
4 EUGENE WATER & ELEC BOARD	47	47	44	48	51	54	54	51	52	51	47	81	81	50	55
5 GRANT COUNTY PUD #2	256	271	244	250	320	316	390	299	324	272	270	353	304	247	298
6 PEND OREILLE COUNTY PUD #1	13	-12	7	17	11	7	-1	4	-3	11	27	28	11	6	9
7 SEATTLE CITY LIGHT	839	641	720	886	820	791	798	861	785	843	1054	995	1010	947	858
8 SNOHOMISH COUNTY PUD #1	120	120	123	124	121	127	131	195	141	152	152	110	117	122	132
9 TACOMA PUBLIC UTILITIES	288	288	339	402	379	529	449	406	342	348	440	328	338	306	375
10 SM & NON GEN PUBLIC (CL+GH)	108	109	116	119	131	127	139	125	135	112	110	126	97	85	118
11 TOTAL PUBLIC AGENCIES	2041	1805	1931	2194	2241	2348	2416	2348	2149	2174	2461	2409	2297	2099	2223
PRIVATE UTILITIES															
12 IDAHO POWER COMPANY	1251	1264	1544	1419	1247	1570	1570	1396	1344	1284	1287	1495	1437	1493	1421
13 MONTANA POWER CO. REGIONAL	279	276	265	275	299	314	317	301	274	241	290	283	308	292	289
14 PACIFIC POWER & LIGHT	2146	2145	1822	1880	2139	2502	2505	2696	2343	2302	2158	2068	2119	2185	2220
15 PORTLAND GENERAL ELECTRIC	859	862	844	825	981	1121	1070	1102	951	584	566	934	854	800	910
16 PUGET SOUND POWER & LIGHT	1307	1271	1168	1185	1466	1538	1681	1553	1409	1210	1259	1397	1335	1251	1376
17 WASHINGTON WATER POWER	667	552	632	634	694	708	670	747	711	835	996	984	907	680	741
18 TOTAL PRIVATE UTILITIES	6509	6370	6275	6218	6826	7753	7813	7795	7032	6456	6556	7161	6960	6701	6957
19 TOTAL DEDICATED RESOURCES	8550	8175	8206	8412	9067	10101	10229	10143	9181	8630	9017	9570	9257	8800	9179

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TABLE A-24

DEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PUBLIC AGENCIES															
1 CHELAN COUNTY PUD #1	287	256	251	256	304	294	354	296	268	282	267	326	255	271	285
2 COWLITZ COUNTY PUD #1	31	29	33	38	49	46	53	56	49	55	54	30	41	30	42
3 DOUGLAS COUNTY PUD #1	90	91	80	81	103	103	125	96	105	90	81	127	95	79	97
4 EUGENE WATER & ELEC BOARD	34	34	31	35	38	41	41	38	39	44	40	74	74	43	44
5 GRANT COUNTY PUD #2	246	261	234	240	310	306	380	289	314	268	266	348	300	243	290
6 PEND OREILLE COUNTY PUD #1	20	-9	13	23	17	13	5	10	3	17	33	34	18	13	15
7 SEATTLE CITY LIGHT	805	608	687	853	787	758	765	828	752	824	1035	967	1001	927	830
8 SNOHOMISH COUNTY PUD #1	117	117	120	121	118	124	128	192	138	150	150	98	125	120	129
9 TACOMA PUBLIC UTILITIES	268	268	319	382	359	509	429	386	322	334	426	305	335	292	357
10 SM & NON GEN PUBLIC (CL+GH)	71	72	76	79	90	94	103	89	99	93	91	107	78	66	87
11 TOTAL PUBLIC AGENCIES	1970	1727	1845	2109	2174	2288	2383	2280	2089	2157	2444	2416	2322	2084	2178
PRIVATE UTILITIES															
12 IDAHO POWER COMPANY	1313	1326	1609	1489	1307	1637	1703	1518	1464	1385	1388	1602	1497	1566	1508
13 MONTANA POWER CO. REGIONAL	286	284	268	280	304	318	327	310	282	251	298	292	315	305	297
14 PACIFIC POWER & LIGHT	2015	2014	1740	1837	2248	2366	2352	2581	2354	2168	2027	1887	2052	2059	2132
15 PORTLAND GENERAL ELECTRIC	810	813	795	776	932	1072	1021	1053	902	562	544	909	835	778	870
16 PUGET SOUND POWER & LIGHT	1203	1171	1076	1092	1353	1427	1541	1447	1296	1139	1189	1266	1263	1173	1274
17 WASHINGTON WATER POWER	652	537	617	619	679	693	655	732	696	829	990	961	920	674	729
18 TOTAL PRIVATE UTILITIES	6279	6145	6105	6093	6823	7513	7599	7641	6994	6334	6436	6917	6882	6555	6810
19 TOTAL DEDICATED RESOURCES	8249	7872	7950	8202	8997	9801	9982	9921	9083	8491	8880	9333	9204	8639	8988

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TABLE A-25

NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PUBLIC AGENCIES															
1 CHELAN COUNTY PUD #1	-78	-78	-69	-68	-60	-60	-59	-59	-71	-69	-69	-68	-73	-81	-68
2 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BOARD	18	18	18	18	19	11	19	18	18	18	18	18	18	11	17
5 GRANT COUNTY PUD #2	45	46	37	36	39	38	46	33	37	43	44	49	43	45	41
6 PEND OREILLE COUNTY PUD #1	72	65	72	72	72	72	72	73	72	73	72	72	72	72	72
7 SEATTLE CITY LIGHT	-23	-23	-47	-65	25	50	50	50	0	0	0	0	-31	-131	-10
8 SNOHOMISH COUNTY PUD #1	-3	-3	-4	-4	-5	-8	-7	-6	-6	-5	-5	-4	-4	-3	-5
9 TACOMA PUBLIC UTILITIES	-75	-75	-53	1	-23	-12	-3	-7	-15	-26	-26	-26	-26	-27	-24
10 SM & NON GEN PUBLIC (CL+GH)	-4	-4	-4	-4	-4	-5	-5	-4	-4	-4	-4	-4	-4	-4	-4
11 TOTAL PUBLIC AGENCIES	-48	-53	-49	-15	63	87	114	99	32	30	30	38	-5	-118	19
PRIVATE UTILITIES															
12 IDAHO POWER COMPANY	348	348	235	167	117	67	67	92	125	219	206	140	199	394	180
13 MONTANA POWER CO. REGIONAL	70	68	-60	-82	-65	-50	-20	-19	-20	70	-36	-1	21	69	-12
14 PACIFIC POWER & LIGHT	-529	-530	-452	-347	-285	-235	-256	-247	-298	-318	-318	-442	-505	-528	-370
15 PORTLAND GENERAL ELECTRIC	724	724	644	763	895	901	903	874	817	812	654	445	505	699	742
16 PUGET SOUND POWER & LIGHT	1068	1068	1038	1329	1584	1588	1587	1587	1371	1131	959	715	947	1068	1244
17 WASHINGTON WATER POWER	179	179	144	216	325	356	358	356	288	232	115	94	20	182	224
18 TOTAL PRIVATE UTILITIES	1860	1857	1549	2046	2571	2627	2639	2643	2283	2146	1580	951	1187	1884	2008
19 TOTAL NONDEDICATED RES	1812	1804	1500	2031	2634	2714	2753	2742	2315	2176	1610	989	1182	1766	2027

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TABLE A-25

NONDEDICATED RESOURCES
1998-99 OPERATING YEAR

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PUBLIC AGENCIES															
1 CHELAN COUNTY PUD #1	-98	-96	-87	-87	-81	-80	-78	-79	-92	-89	-89	-87	-99	-102	-88
2 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BOARD	18	18	18	18	18	11	19	18	18	18	18	19	18	11	17
5 GRANT COUNTY PUD #2	43	44	36	35	38	37	46	34	38	45	43	56	52	45	42
6 PEND OREILLE COUNTY PUD #1	62	56	62	62	62	62	62	62	62	62	62	62	62	62	62
7 SEATTLE CITY LIGHT	-23	-23	-47	-65	49	80	80	80	30	6	6	0	-31	-131	2
8 SNOHOMISH COUNTY PUD #1	-3	-3	-4	-4	-5	-7	-7	-6	-6	-5	-5	-4	-4	-3	-5
9 TACOMA PUBLIC UTILITIES	-83	-83	-61	-8	-32	-20	-11	-15	-23	-40	-40	-40	-40	-41	-34
10 SM & NON GEN PUBLIC (CL+GH)	45	45	45	45	45	45	45	45	45	45	45	32	35	45	43
11 TOTAL PUBLIC AGENCIES	-38	-41	-38	-4	95	129	157	140	73	42	40	38	-7	-114	39
PRIVATE UTILITIES															
12 IDAHO POWER COMPANY	308	308	270	254	229	204	204	204	212	159	144	168	234	345	232
13 MONTANA POWER CO. REGIONAL	77	80	75	78	80	82	83	82	78	156	51	12	31	79	72
14 PACIFIC POWER & LIGHT	-564	-564	-573	-468	-405	-357	-377	-370	-419	-440	-440	-477	-625	-564	-470
15 PORTLAND GENERAL ELECTRIC	795	793	697	810	962	964	964	962	895	687	529	324	455	670	759
16 PUGET SOUND POWER & LIGHT	1059	1059	1029	1320	1574	1577	1576	1578	1362	1122	951	706	938	1059	1235
17 WASHINGTON WATER POWER	158	158	116	188	310	341	343	342	272	234	116	128	55	161	216
18 TOTAL PRIVATE UTILITIES	1833	1834	1614	2182	2750	2811	2793	2798	2400	1918	1351	861	1088	1750	2043
19 TOTAL NONDEDICATED RES	1795	1793	1576	2178	2845	2940	2950	2938	2473	1960	1391	899	1081	1636	2082

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TABLE A-25

NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/941930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PUBLIC AGENCIES															
1 CHELAN COUNTY PUD #1	-104	-103	-94	-93	-87	-87	-84	-87	-99	-95	-96	-93	-106	-103	-94
2 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 EUGENE WATER & ELEC BOARD	18	18	18	18	18	11	19	18	18	18	18	19	18	11	17
5 GRANT COUNTY PUD #2	43	44	36	35	38	37	46	34	38	45	43	56	52	45	42
6 PEND OREILLE COUNTY PUD #1	62	59	62	62	62	62	62	62	62	62	62	62	62	62	62
7 SEATTLE CITY LIGHT	-23	-23	-47	-65	0	0	0	0	0	0	0	0	-31	-31	-16
8 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 TACOMA PUBLIC UTILITIES	-91	-91	-69	-16	-40	-28	-19	-23	-31	-40	-40	-40	-40	-41	-40
10 SM & NON GEN PUBLIC (CL+GH)	46	46	46	46	46	46	46	46	46	46	46	29	41	46	44
11 TOTAL PUBLIC AGENCIES	-49	-50	-48	-14	37	41	70	50	35	36	33	33	-4	-11	15
PRIVATE UTILITIES															
12 IDAHO POWER COMPANY	308	308	270	254	254	254	254	254	212	159	144	168	234	245	238
13 MONTANA POWER CO. REGIONAL	73	76	72	74	76	78	80	79	75	153	46	7	31	76	68
14 PACIFIC POWER & LIGHT	-547	-547	-555	-451	-267	-221	-241	-232	-281	-303	-303	-339	-489	-428	-363
15 PORTLAND GENERAL ELECTRIC	795	793	697	810	962	964	963	963	895	688	530	324	455	670	759
16 PUGET SOUND POWER & LIGHT	829	828	798	938	1373	1373	1373	1375	1010	921	750	506	738	709	988
17 WASHINGTON WATER POWER	175	175	133	205	327	358	360	359	289	251	133	169	95	174	236
18 TOTAL PRIVATE UTILITIES	1633	1633	1415	1830	2725	2806	2789	2798	2200	1869	1300	835	1064	1446	1927
19 TOTAL NONDEDICATED RES	1584	1583	1367	1816	2762	2847	2859	2848	2235	1905	1333	868	1060	1435	1942

TABLE A-26

FEDERAL RESOURCE OPTIONS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
SURPLUS POWER SALES SUBJECT TO 60-DAY RECALL UNDER PUBLIC LAW 88-552															
1 BPA TO BURBANK, POWER SALE	26	26	25	16	11	11	11	10	10	11	11	18	23	25	16
2 BPA TO GLENDALE, POWER SALE	14	14	13	6	5	5	6	5	5	6	6	9	12	13	8
3 BPA TO PASADENA, POWER SALE	5	5	5	4	2	2	2	2	2	2	2	4	4	5	3
4 BPA TO MSR, POWER SALE	75	75	79	76	51	35	36	30	30	30	30	31	52	76	50
5 BPA TO SCE, POWER SALE	131	131	131	131	145	137	137	135	136	131	131	131	131	131	134
6 FED CONTRACTS 60-DAY RECALL	251	251	253	233	214	190	192	182	183	180	180	193	222	250	212
EXCHANGE ENERGY FROM PSW CAPACITY/ENERGY EXCHANGES FROM TERMINATED PSW SURPLUS POWER SALES															
7 BURBANK TO BPA, CAP/NRG X	3	3	3	3	5	5	5	5	5	5	3	3	3	3	4
8 GLENDALE TO BPA, CAP/NRG X	3	3	3	3	4	6	6	6	6	6	3	3	3	3	4
9 PASADENA TO BPA, CAP/NRG X	3	3	3	3	5	5	5	5	5	5	3	3	3	3	4
10 MSR TO BPA, CAP/NRG XCHG	0	0	0	0	37	37	37	37	37	37	0	0	0	0	17
11 SCE TO BPA, CAP/NRG XCHG	0	0	0	0	54	108	108	108	108	0	0	0	0	0	41
12 FED EXCHANGE NRG FROM PSW	8	8	8	8	104	160	160	160	160	52	8	8	8	8	69
OPTIONAL PURCHASE RIGHTS IN PSW CAPACITY/ENERGY EXCHANGES FROM TERMINATED PSW SURPLUS POWER SALES															
13 BURBANK TO BPA, SUPPLM NRG	0	0	0	0	1	3	3	3	3	3	0	0	0	0	1
14 GLENDALE TO BPA, SUPPLM NRG	0	0	0	0	2	3	3	3	3	3	0	0	0	0	1
15 PASADENA TO BPA, SUPPLM NRG	0	0	0	0	1	2	2	2	2	2	0	0	0	0	1
16 SCE TO BPA, SUPPLEMENTAL NRG	0	0	0	0	40	79	79	79	79	79	0	0	0	0	33
17 TOTAL SUPPLEMENTAL ENERGY	0	0	0	0	44	87	87	87	87	87	0	0	0	0	36
18 SCE TO BPA, OPTION ENERGY	0	0	0	0	0	0	143	285	285	285	0	0	0	0	71
19 FED RES ADDITIONS FROM PSW	0	0	0	0	44	87	230	372	372	372	0	0	0	0	108
SURPLUS POWER SALES SUBJECT TO 5-YEAR RECALL UNDER PUBLIC LAW 75-329 AND PUBLIC LAW 88-552															
20 BPA TO PSP&L, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 FED CONTRACTS 5-YEAR RECALL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 TOTAL RECALLABLE RESOURCES	259	259	261	241	362	438	582	714	715	604	188	201	230	258	388
23 CANADIAN NON-TREATY STORAGE	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
24 TOTAL RESOURCE OPTIONS	374	374	376	356	477	553	697	829	830	719	303	316	345	373	503

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TABLE A-26

FEDERAL RESOURCE OPTIONS

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
SURPLUS POWER SALES SUBJECT TO 60-DAY RECALL UNDER PUBLIC LAW 88-552															
1 BPA TO BURBANK, POWER SALE	26	26	24	16	11	11	11	10	10	11	11	18	23	25	16
2 BPA TO GLENDALE, POWER SALE	14	14	13	6	5	5	6	5	5	6	6	9	12	13	8
3 BPA TO PASADENA, POWER SALE	5	5	5	4	2	2	2	2	2	2	2	4	4	5	3
4 BPA TO MSR, POWER SALE	112	112	119	114	77	53	54	45	45	45	45	47	78	115	75
5 BPA TO SCE, POWER SALE	131	131	131	131	145	137	137	135	136	131	131	131	131	131	134
6 FED CONTRACTS 60-DAY RECALL	288	288	292	271	240	208	210	197	198	195	195	209	248	289	237
EXCHANGE ENERGY FROM PSW CAPACITY/ENERGY EXCHANGES FROM TERMINATED PSW SURPLUS POWER SALES															
7 BURBANK TO BPA, CAP/NRG X	3	3	3	3	5	5	5	5	5	5	3	3	3	3	4
8 GLENDALE TO BPA, CAP/NRG X	3	3	3	3	4	6	6	6	6	6	3	3	3	3	4
9 PASADENA TO BPA, CAP/NRG X	3	3	3	3	5	5	5	5	5	5	3	3	3	3	4
10 MSR TO BPA, CAP/NRG XCHG	0	0	0	0	55	55	55	55	55	55	0	0	0	0	25
11 SCE TO BPA, CAP/NRG XCHG	0	0	0	0	48	97	97	97	97	0	0	0	0	0	36
12 FED EXCHANGE NRG FROM PSW	8	8	8	8	117	167	167	167	167	70	8	8	8	8	73
OPTIONAL PURCHASE RIGHTS IN PSW CAPACITY/ENERGY EXCHANGES FROM TERMINATED PSW SURPLUS POWER SALES															
13 BURBANK TO BPA, SUPPLM NRG	0	0	0	0	1	3	3	3	3	3	0	0	0	0	1
14 GLENDALE TO BPA, SUPPLM NRG	0	0	0	0	2	3	3	3	3	3	0	0	0	0	1
15 PASADENA TO BPA, SUPPLM NRG	0	0	0	0	1	2	2	2	2	2	0	0	0	0	1
16 SCE TO BPA, SUPPLEMENTAL NRG	0	0	0	0	45	90	90	90	90	90	0	0	0	0	37
17 TOTAL SUPPLEMENTAL ENERGY	0	0	0	0	49	98	98	98	98	98	0	0	0	0	41
18 SCE TO BPA, OPTION ENERGY	0	0	0	0	0	0	143	285	285	285	0	0	0	0	71
19 FED RES ADDITIONS FROM PSW	0	0	0	0	49	98	240	383	383	383	0	0	0	0	112
SURPLUS POWER SALES SUBJECT TO 5-YEAR RECALL UNDER PUBLIC LAW 75-329 AND PUBLIC LAW 88-552															
20 BPA TO PSP&L, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 FED CONTRACTS 5-YEAR RECALL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 TOTAL RECALLABLE RESOURCES	296	296	300	279	406	473	617	747	748	648	203	217	256	297	422
23 CANADIAN NON-TREATY STORAGE	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
24 TOTAL RESOURCE OPTIONS	411	411	415	394	521	588	732	862	863	763	318	332	371	412	537

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TABLE A-26

FEDERAL RESOURCE OPTIONS

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
SURPLUS POWER SALES SUBJECT TO 60-DAY RECALL UNDER PUBLIC LAW 88-552															
1 BPA TO BURBANK, POWER SALE	26	26	24	16	11	11	11	10	10	11	11	18	23	25	16
2 BPA TO GLENDALE, POWER SALE	14	14	13	6	5	5	6	5	5	6	6	9	12	13	8
3 BPA TO PASADENA, POWER SALE	5	5	5	4	2	2	2	2	2	2	2	4	4	5	3
4 BPA TO MSR, POWER SALE	112	112	119	114	77	53	54	45	45	45	45	47	78	115	75
5 BPA TO SCE, POWER SALE	131	131	131	131	145	137	137	135	136	131	131	131	131	131	134
6 FED CONTRACTS 60-DAY RECALL	288	288	292	271	240	208	210	197	198	195	195	209	248	289	237
EXCHANGE ENERGY FROM PSW CAPACITY/ENERGY EXCHANGES FROM TERMINATED PSW SURPLUS POWER SALES															
7 BURBANK TO BPA, CAP/NRG X	3	3	3	3	5	5	5	5	5	5	3	3	3	3	4
8 GLENDALE TO BPA, CAP/NRG X	3	3	3	3	4	6	6	6	6	6	3	3	3	3	4
9 PASADENA TO BPA, CAP/NRG X	3	3	3	3	5	5	5	5	5	5	3	3	3	3	4
10 MSR TO BPA, CAP/NRG XCHG	0	0	0	0	55	55	55	55	55	55	0	0	0	0	25
11 SCE TO BPA, CAP/NRG XCHG	0	0	0	0	40	80	80	80	80	0	0	0	0	0	30
12 FED EXCHANGE NRG FROM PSW	8	8	8	8	109	151	151	151	151	70	8	8	8	8	67
OPTIONAL PURCHASE RIGHTS IN PSW CAPACITY/ENERGY EXCHANGES FROM TERMINATED PSW SURPLUS POWER SALES															
13 BURBANK TO BPA, SUPPLM NRG	0	0	0	0	1	3	3	3	3	3	0	0	0	0	1
14 GLENDALE TO BPA, SUPPLM NRG	0	0	0	0	2	3	3	3	3	3	0	0	0	0	1
15 PASADENA TO BPA, SUPPLM NRG	0	0	0	0	1	2	2	2	2	2	0	0	0	0	1
16 SCE TO BPA, SUPPLEMENTAL NRG	0	0	0	0	52	104	104	104	104	104	0	0	0	0	43
17 TOTAL SUPPLEMENTAL ENERGY	0	0	0	0	56	112	112	112	112	112	0	0	0	0	47
18 SCE TO BPA, OPTION ENERGY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 FED RES ADDITIONS FROM PSW	0	0	0	0	56	112	112	112	112	112	0	0	0	0	47
SURPLUS POWER SALES SUBJECT TO 5-YEAR RECALL UNDER PUBLIC LAW 75-329 AND PUBLIC LAW 88-552															
20 BPA TO PSP&L, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 FED CONTRACTS 5-YEAR RECALL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 TOTAL RECALLABLE RESOURCES	296	296	300	279	405	471	473	460	461	378	203	217	256	297	351
23 CANADIAN NON-TREATY STORAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 TOTAL RESOURCE OPTIONS	296	296	300	279	405	471	473	460	461	378	203	217	256	297	351

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TABLE A-27

PURCHASES FROM THE BPA SYSTEM BY RATE CLASS

M E D I U M L O A D S

1994-95 OPERATING YEAR

1993 WHITEBOOK: 12/19/93

RUN DATE: 01/19/94

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
GENERATING PUBLIC UTILITIES FIRM PURCHASES															
PARTNERSHIP PURCHASES															
1 DIAMOND W. P., EWEB *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURPLUS FIRM PURCHASES															
2 BPA TO SNOH, SP PURCHASE	3	3	4	4	5	8	7	6	6	5	5	4	4	3	5
PRIORITY FIRM PURCHASES															
3 GEN PUB PURCHASE, PF RATE	1485	1490	1515	1684	2000	2113	2213	2055	1956	1763	1756	1637	1520	1489	1786
TOTAL GENERATING PUBLIC UTILITIES FIRM PURCHASES															
4 TOTAL GEN PUBLIC PURCHASE	1485	1490	1515	1684	2000	2113	2213	2055	1956	1763	1756	1637	1520	1489	1786
SMALL AND NON GENERATING PUBLIC UTILITIES FIRM PURCHASES															
RESOURCE ACQUISITIONS REFLECTED AS LOAD REDUCTIONS															
BILLING CREDITS															
5 CONSERVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMPETITIVE ACQUISITIONS															
7 CONSERVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 TOTAL ACQIS AS A LOAD SUBTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 TOTAL NON GEN PUB PURCHASE	3014	3015	2820	2901	3354	3723	3850	3623	3304	3123	3125	3002	2963	3122	3233
PARTNERSHIP PURCHASES															
10 STAYING POWER, SUB DOW *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 ELECTRIC VENTURES *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 NON GEN PUBLIC PARTNERSHIP*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW RESOURCE RATE PURCHASES															
13 DIASHOWA, NR RATE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURPLUS FIRM PURCHASES															
14 BPA TO S&NG, SP PURCH	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1
PRIORITY FIRM PURCHASES															
15 NON GEN PUB PURCH, PF RATE	3013	3014	2819	2900	3353	3721	3848	3622	3303	3122	3124	3001	2962	3121	3232
TOTAL PARTNERSHIP PURCHASES															
16 TOTAL PARTNERSHIP PURCHASE*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TOTAL SURPLUS FIRM PURCHASE	4	4	5	5	6	10	9	7	7	6	6	5	5	4	6

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TABLE A-27

PURCHASES FROM THE BPA SYSTEM BY RATE CLASS

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

GENERATING PUBLIC UTILITIES FIRM PURCHASES

PARTNERSHIP PURCHASES																
1 DIAMOND W. P., EWEB *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURPLUS FIRM PURCHASES																
2 BPA TO SNOH, SP PURCHASE	3	3	4	4	5	7	7	6	6	5	5	4	4	3	5	
PRIORITY FIRM PURCHASES																
3 GEN PUB PURCHASE, PF RATE	1762	1789	1796	1972	2281	2399	2554	2379	2262	2058	2043	1879	1757	1723	2069	
TOTAL GENERATING PUBLIC UTILITIES FIRM PURCHASES																
4 TOTAL GEN PUBLIC PURCHASE	1762	1789	1796	1972	2281	2399	2554	2379	2262	2058	2043	1879	1757	1723	2069	

SMALL AND NON GENERATING PUBLIC UTILITIES FIRM PURCHASES

RESOURCE ACQUISITIONS REFLECTED AS LOAD REDUCTIONS

BILLING CREDITS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 CONSERVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GENERATION																
COMPETITIVE ACQUISITIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 CONSERVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 TOTAL ACQIS AS A LOAD SUBTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 TOTAL NON GEN PUB PURCHASE	3263	3262	3083	3156	3601	3956	4167	3915	3564	3358	3360	3212	3152	3330	3480	

PARTNERSHIP PURCHASES																
10 STAYING POWER, SUB DOW *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 ELECTRIC VENTURES *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 NON GEN PUBLIC PARTNERSHIP*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW RESOURCE RATE PURCHASES																
13 DIASHOWA, NR RATE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURPLUS FIRM PURCHASES																
14 BPA TO S&NG, SP PURCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PRIORITY FIRM PURCHASES																
15 NON GEN PUB PURCH, PF RATE	3262	3261	3082	3155	3600	3955	4166	3914	3563	3357	3359	3211	3151	3329	3479	

TOTAL PARTNERSHIP PURCHASES

16 TOTAL PARTNERSHIP PURCHASE*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TOTAL SURPLUS FIRM PURCHASE	4	4	5	5	6	8	8	7	7	6	6	5	5	4	6	

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TABLE A-27

PURCHASES FROM THE BPA SYSTEM BY RATE CLASS

M E D I U M L O A D S

1993 WHITEBOOK: 12/19/93
 RUN DATE: 01/19/94

1930 WATER YEAR
 ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
GENERATING PUBLIC UTILITIES FIRM PURCHASES															
PARTNERSHIP PURCHASES															
1 DIAMOND W. P., EWEB *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURPLUS FIRM PURCHASES															
2 BPA TO SNOH, SP PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 GEN PUB PURCHASE, PF RATE	1955	1986	1996	2217	2586	2738	2867	2675	2545	2317	2302	2124	1969	1941	2328
TOTAL GENERATING PUBLIC UTILITIES FIRM PURCHASES															
4 TOTAL GEN PUBLIC PURCHASE	1955	1986	1996	2217	2586	2738	2867	2675	2545	2317	2302	2124	1969	1941	2328
SMALL AND NON GENERATING PUBLIC UTILITIES FIRM PURCHASES															
RESOURCE ACQUISITIONS REFLECTED AS LOAD REDUCTIONS															
BILLING CREDITS															
5 CONSERVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMPETITIVE ACQUISITIONS															
7 CONSERVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 TOTAL ACQIS AS A LOAD SUBTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 TOTAL NON GEN PUB PURCHASE	3446	3445	3253	3351	3867	4266	4426	4160	3791	3557	3559	3404	3339	3526	3699
PARTNERSHIP PURCHASES															
10 STAYING POWER, SUB DOW *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 ELECTRIC VENTURES *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 NON GEN PUBLIC PARTNERSHIP*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW RESOURCE RATE PURCHASES															
13 DIASHOWA, NR RATE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURPLUS FIRM PURCHASES															
14 BPA TO S&NG, SP PURCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 NON GEN PUB PURCH, PF RATE	3446	3445	3253	3351	3867	4266	4426	4160	3791	3557	3559	3404	3339	3526	3699
TOTAL PARTNERSHIP PURCHASES															
16 TOTAL PARTNERSHIP PURCHASE*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TOTAL SURPLUS FIRM PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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EXTREME WEATHER ADJUSTMENT
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
BONEVILLE POWER ADMINISTRATION															
1A FEDERAL AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1B FEDERAL + GEN PUB LOSSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1C USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1D DSI ALUMINUM FIRM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1E DSI NON-ALUMINUM FIRM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1F DSI FIRM LOSSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 TOTAL BPA NON-UTILITY LOADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 UTAH POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGIONAL EXTREME WEATHER ADJUSTMENT															
21 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PUBLIC AGENCIES W/COLOCKUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 REGIONAL FIRM LOADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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EXTREME WEATHER ADJUSTMENT
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR														
	AUG 1-15 16-31	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
BONEVILLE POWER ADMINISTRATION															
1A FEDERAL AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1B FEDERAL + GEN PUB LOSSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1C USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1D DSI ALUMINUM FIRM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1E DSI NON-ALUMINUM FIRM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1F DSI FIRM LOSSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 TOTAL BPA NON-UTILITY LOADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COCLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 COMLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 UTAH POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGIONAL EXTREME WEATHER ADJUSTMENT															
21 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PUBLIC AGENCIES W/COCLOCKUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 REGIONAL FIRM LOADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

EXTREME WEATHER ADJUSTMENT
1993 BPA LOAD FORECAST

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
BONEVILLE POWER ADMINISTRATION															
1A FEDERAL AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1B FEDERAL + GEN PUB LOSSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1C USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1D DSI ALUMINUM FIRM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1E DSI NON-ALUMINUM FIRM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1F DSI FIRM LOSSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 TOTAL BPA NON-UTILITY LOADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COLOCKUM TRANSMISSION CO.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 IDAHO POWER COMPANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 MONTANA POWER CO. REGIONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PACIFIC POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 PORTLAND GENERAL ELECTRIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 PUGET SOUND POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 SEATTLE CITY LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 SNOHOMISH COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TACOMA PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 UTAH POWER & LIGHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 WASHINGTON WATER POWER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGIONAL EXTREME WEATHER ADJUSTMENT															
21 FEDERAL SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PUBLIC AGENCIES W/COLOCKUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 PRIVATE UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 REGIONAL FIRM LOADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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SECTION XI: Monthly Energy Analysis

DEDICATED AND NONDEDICATED RESOURCES (FOR OYs 1994-95, 1998-99, AND 2003-04)

SECTION XI - DEDICATED AND NONDEDICATED RESOURCES (FOR OYs 1994-95, 1998-99, AND 2003-04)

Monthly Energy Analysis

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Section XI: Dedicated and Nondedicated Resources (for OYs 1994-95, 1998-99, and 2003-04)		
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TABLE D-1

IDAHO POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
IDAHO POWER COMPANY DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	SWAN FALLS	5B1A	14	14	17	17	20	19	19	19	15	15	15	14	13	17	
2	C.J. STRIKE	5B1A	44	44	54	54	66	59	56	59	48	48	46	43	40	53	
3	AMERICAN FALLS	5B1A	66	66	40	14	7	16	0	13	58	58	57	81	81	36	
4	BLISS	5B1A	41	41	48	45	51	55	45	46	40	40	39	39	38	44	
5	LOWER SALMON	5B1A	26	26	30	29	34	38	29	27	25	25	24	24	24	28	
6	UPPER SALMON 1&2	5B1A	18	18	19	19	19	19	19	17	17	17	17	17	17	18	
7	UPPER SALMON 3&4	5B1A	15	15	18	17	18	18	17	16	17	14	14	14	14	16	
8	SHOSHONE FALLS	5B1A	11	11	12	8	12	12	12	12	8	8	7	6	10	10	
9	SPRING PLANTS	5B1A	27	28	28	30	31	31	30	27	28	28	27	26	26	28	
10	TWIN FALLS	5B1A	7	7	9	6	18	16	14	15	4	4	2	0	0	8	
11	MILMER	5B1B	0	0	0	0	13	10	8	7	0	0	0	0	0	4	
12	CASCADE	5B1A	13	13	10	2	2	1	5	1	1	1	1	4	11	4	
REGULATED HYDRO																	
13	HELLS CANYON	5B1A	96	100	202	197	146	223	252	191	186	181	181	250	153	166	187
14	OXBOW	5B1A	50	51	106	103	76	115	131	97	94	90	90	128	76	86	96
15	BROWNLEE	5B1A	126	133	269	254	190	293	311	231	238	230	233	325	195	218	240
16	TOTAL HYDRO		554	567	862	795	703	938	951	759	782	759	762	952	692	744	792
LARGE THERMAL																	
17	JIM BRIDGER SHARE	5B1A	636	636	636	585	531	636	636	636	566	393	393	464	577	636	578
18	TOTAL THERMAL		636	636	636	585	531	636	636	636	566	393	393	464	577	636	578
OTHER RESOURCES																	
19	WOOD RIVER	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20	NON-UTILITY GENERATION	5B1B	127	127	106	76	63	44	53	57	72	103	103	131	142	143	93
21	TOTAL OTHER RESOURCES		128	128	107	77	64	45	54	58	73	104	104	132	143	144	94
EXPORTS																	
22	IDA TO SIERRA PAC, SLE1	5B1A	-12	-12	-12	-12	-11	-11	-12	-12	-11	-11	-11	-12	-11	-11	-11
23	IDA TO SIERRA PAC, SLE2	5B1A	-40	-40	-39	-40	-39	-48	-54	-47	-51	-39	-39	-39	-40	-39	-43
24	IDA TO UAMPS, SALE	5B1A	-53	-53	-48	-45	-42	-49	-50	-47	-39	-45	-45	-42	-45	-52	-46
25	IDA TO AZUSA, BANN, CLT	5B1A	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
26	IDA TO CTY OF WASH, UT	5B1A	-3	-3	-2	-2	-3	-4	-4	-4	-3	-3	-3	-3	-3	-3	-3
27	TOTAL EXPORTS		-114	-114	-107	-105	-101	-118	-126	-116	-110	-104	-104	-102	-105	-111	-110
IMPORTS																	
CONTRACTS OUT																	
28	IDA TO ORE TRAIL, SALE	5B1B	-7	-7	-11	-11	-11	-3	-3	-11	-11	-11	-11	-11	-8	0	-8
CONTRACTS IN																	

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TABLE D-1 (CONTINUED)

IDAHO POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
TOTAL DEDICATED RESOURCES	1077	1090	1392	1276	1121	1447	1454	1273	1229	1049	1052	1315	1165	1270	1256
29 ACQUIRED PRIOR TO ACT, 5B1A	120	120	95	65	65	51	58	53	71	92	92	120	134	143	89
30 ACQUIRED, POST ACT, 5B1B															
31 TOTAL DEDICATED RESOURCES	1197	1210	1487	1341	1186	1498	1512	1326	1300	1141	1144	1435	1299	1413	1345
NONDEDICATED RESOURCES	202	202	202	202	202	202	202	202	160	202	189	163	202	202	195
32 LG THRM, VALMY	43	43	43	43	43	43	43	43	43	43	43	3	23	43	38
33 LG THRM, BOARDMAN SHARE	0	0	0	0	-25	-50	-50	-50	0	0	0	0	0	0	-15
34 C.O., ID TO SCL, NRG SALE	0	0	0	0	-25	-50	-50	-25	0	0	0	0	0	0	-12
35 C.O., ID TO MPC, C/N XCHG	0	0	0	0	-25	-50	-50	-25	0	0	0	0	0	0	-52
36 C.O., ID TO MPC, SALE	-26	-26	-26	-78	-78	-78	-78	-78	-78	-26	-26	-26	-26	-26	14
37 C.I., SCL TO ID, NRG SALE	54	54	16	0	0	0	0	0	0	0	0	0	0	100	75
38 C.I., MPC TO ID, C/N XCHG	75	75	0	0	0	0	0	0	0	0	0	0	0	0	12
39 ENERGY MANAG SYS ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 TOTAL NONDEDICATED RES	348	348	235	167	117	67	67	92	125	219	206	140	199	394	180
41 TOTAL RESOURCES	1545	1558	1722	1508	1303	1565	1579	1418	1425	1360	1350	1575	1498	1807	1526

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TABLE D-1

IDAHO POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		1998-99 OPERATING YEAR														
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
IDAHO POWER COMPANY DEDICATED RESOURCES																
HYDRO INDEPENDENTS																
1	SWAN FALLS	5B1A	14	14	17	17	20	19	19	19	15	15	15	14	13	17
2	C. J. STRIKE	5B1A	44	44	54	54	66	72	59	56	59	48	48	46	43	53
3	AMERICAN FALLS	5B1A	66	66	40	14	7	16	0	0	13	58	58	57	81	36
4	BLISS	5B1A	41	41	48	45	51	55	45	42	46	40	40	39	39	44
5	LOWER SALMON	5B1A	26	26	30	29	34	38	29	27	28	25	25	24	24	28
6	UPPER SALMON 1&2	5B1A	18	18	19	19	19	19	19	19	17	17	17	17	17	18
7	UPPER SALMON 3&4	5B1A	15	15	18	17	18	18	17	16	17	14	14	14	14	16
8	SHOSHONE FALLS	5B1A	11	11	12	8	12	12	12	12	8	8	7	6	10	10
9	SPRING PLANTS	5B1A	27	28	28	30	31	31	30	30	27	28	28	27	26	28
10	TWIN FALLS	5B1A	7	7	9	6	18	16	14	11	15	4	4	2	0	8
11	MILMER	5B1B	0	0	0	0	13	10	8	7	10	0	0	0	0	4
12	CASCADE	5B1A	13	13	10	2	2	1	5	1	1	1	1	1	4	4
REGULATED HYDRO																
13	HELLS CANYON	5B1A	96	100	202	197	146	223	252	191	186	181	181	250	153	166
14	OXBOW	5B1A	50	51	106	103	76	115	131	97	94	90	90	128	76	96
15	BROWNLEE	5B1A	126	133	269	254	190	293	311	231	238	230	233	325	195	240
16	TOTAL HYDRO		554	567	862	795	703	938	951	759	782	759	762	952	692	792
LARGE THERMAL																
17	JIM BRIDGER SHARE	5B1A	636	636	636	595	521	636	636	636	541	465	465	465	604	584
18	TOTAL THERMAL		636	636	636	595	521	636	636	636	541	465	465	465	604	584
OTHER RESOURCES																
19	WOOD RIVER	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	NON-UTILITY GENERATION	5B1B	181	181	164	143	136	117	121	128	141	166	166	189	211	157
21	TOTAL OTHER RESOURCES		182	182	165	144	137	118	122	129	142	167	167	190	212	158
EXPORTS																
22	IDA TO SIERRA PAC, SLE1	5B1A	-12	-12	-12	-12	-11	-11	-12	-12	-11	-11	-11	-12	-11	-11
23	IDA TO SIERRA PAC, SLE2	5B1A	-40	-40	-40	-40	-41	-49	-60	-52	-56	-43	-43	-43	0	-39
24	IDA TO UAMPS, SALE	5B1A	-53	-53	-48	-45	-42	-49	-50	-48	-39	-38	-38	-42	-45	-46
25	IDA TO AZUSA, BANN, CLT	5B1A	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
26	IDA TO CTY OF WASH, UT	5B1A	-3	-3	-3	-2	-3	-4	-5	-4	-3	-3	-3	-3	-4	-3
27	TOTAL EXPORTS		-114	-114	-109	-105	-103	-119	-133	-122	-115	-101	-101	-106	-65	-105
IMPORTS																
CONTRACTS OUT																
28	IDA TO ORE TRAIL, SALE	5B1B	-7	-7	-10	-10	-11	-3	-6	-6	-6	-6	-6	-6	-6	-7
CONTRACTS IN																

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TABLE D-1 (CONTINUED)

IDAHO POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
TOTAL DEDICATED RESOURCES	1077	1090	1390	1286	1109	1446	1447	1267	1199	1124	1127	1312	1232	1308	1267
29 ACQUIRED PRIOR TO ACT, 5B1A	174	174	154	133	138	124	123	129	145	160	160	183	205	185	154
30 ACQUIRED, POST ACT, 5B1B															
31 TOTAL DEDICATED RESOURCES	1251	1264	1544	1419	1247	1570	1570	1396	1344	1284	1287	1495	1437	1493	1421
NONDEDICATED RESOURCES	211	211	211	211	211	211	211	211	169	116	101	165	211	202	194
32 LG THRM, VALMY	43	43	43	43	43	43	43	43	43	43	43	3	23	43	38
33 LG THRM, BOARDMAN SHARE	0	0	0	0	-25	-50	-50	-50	0	0	0	0	0	0	-15
34 C.O., ID TO SCL, NRG SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 C.O., ID TO MPC, C/N XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 C.O., ID TO MPC, SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	100	14
37 C.I., SCL TO ID, NRG SALE	54	54	16	0	0	0	0	0	0	0	0	0	0	0	0
38 C.I., MPC TO ID, C/N XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 ENERGY MANAG SYS ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 TOTAL NONDEDICATED RES	308	308	270	254	229	204	204	204	212	159	144	168	234	345	232
41 TOTAL RESOURCES	1559	1572	1814	1673	1476	1774	1774	1600	1556	1443	1431	1663	1671	1838	1653

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TABLE D-1

IDAHO POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

IDAHO POWER COMPANY
DEDICATED RESOURCES

HYDRO INDEPENDENTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	SWAN FALLS 5B1A	14	14	17	17	20	19	19	19	19	15	15	15	14	13	17
2	C.J. STRIKE 5B1A	44	44	54	54	66	72	59	56	59	48	48	46	43	40	53
3	AMERICAN FALLS 5B1A	66	66	40	14	7	16	0	0	13	58	58	57	81	81	36
4	BLISS 5B1A	41	41	48	45	51	55	45	42	46	40	40	39	39	38	44
5	LOWER SALMON 5B1A	26	26	30	29	34	38	29	27	28	25	25	24	24	24	28
6	UPPER SALMON 1&2 5B1A	18	18	19	19	19	19	19	19	17	17	17	17	17	17	18
7	UPPER SALMON 3&4 5B1A	15	15	18	17	18	18	17	16	17	14	14	14	14	14	16
8	SHOSHONE FALLS 5B1A	11	11	12	8	12	12	12	12	12	8	8	7	6	10	10
9	SPRING PLANTS 5B1A	27	28	28	30	31	31	30	30	27	28	28	27	26	26	28
10	THIN FALLS 5B1A	7	7	9	6	18	16	14	11	15	4	4	2	0	0	8
11	MILMER 5B1B	0	0	0	0	13	10	8	7	10	0	0	0	0	0	4
12	CASCADE 5B1A	13	13	10	2	2	1	5	1	1	1	1	1	4	11	4

REGULATED HYDRO

13	HELLS CANYON 5B1A	96	100	202	197	146	223	252	191	186	181	181	250	153	166	187
14	OXBOW 5B1A	50	51	106	103	76	115	131	97	94	90	90	128	76	86	96
15	BROWNLEE 5B1A	126	133	269	254	190	293	311	231	238	230	233	325	195	218	240
16	TOTAL HYDRO	554	567	862	795	703	938	951	759	782	759	762	952	692	744	792

LARGE THERMAL

17	JIM BRIDGER SHARE 5B1A	636	636	636	601	515	636	636	636	546	465	465	465	599	636	584
18	TOTAL THERMAL	636	636	636	601	515	636	636	636	546	465	465	465	599	636	584

OTHER RESOURCES

19	WOOD RIVER 5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	NON-UTILITY GENERATION 5B1B	181	181	164	143	136	117	121	128	141	166	166	190	211	191	157
21	TOTAL OTHER RESOURCES	182	182	165	144	137	118	122	129	142	167	167	191	212	192	158

EXPORTS

22	IDA TO SIERRA PAC, SLE1, 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	IDA TO SIERRA PAC, SLE2, 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	IDA TO UAMPS, SALE, 5B1A	-53	-53	-48	-45	-42	-49	0	0	0	0	0	0	0	0	-20
25	IDA TO AZUSA, BANN, CLT, 5B1A	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
26	IDA TO CTY OF WASH, UT, 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	TOTAL EXPORTS	-59	-59	-54	-51	-48	-55	-6	-6	-6	-6	-6	-6	-6	-6	-26

IMPORTS

CONTRACTS OUT

28	IDA TO ORE TRAIL, SALE, 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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CONTRACTS IN

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TABLE D-1 (CONTINUED)

IDAHO POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
TOTAL DEDICATED RESOURCES	1132	1145	1445	1346	1158	1510	1574	1383	1313	1219	1222	1412	1286	1375	1347
29 ACQUIRED PRIOR TO ACT, 5B1A	181	181	164	143	149	127	129	135	151	166	166	190	211	191	161
30 ACQUIRED, POST ACT, 5B1B															
31 TOTAL DEDICATED RESOURCES	1313	1326	1609	1489	1307	1637	1703	1518	1464	1385	1388	1602	1497	1566	1508
NONDEDICATED RESOURCES	211	211	211	211	211	211	211	211	169	116	101	165	211	202	194
32 LG THRM, VALMY	43	43	43	43	43	43	43	43	43	43	43	3	23	43	38
33 LG THRM, BOARDMAN SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 C.O., ID TO SCL, NRG SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 C.O., ID TO MPC, C/N XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
36 C.O., ID TO MPC, SALE	54	54	16	0	0	0	0	0	0	0	0	0	0	0	0
37 C.I., SCL TO ID, NRG SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 C.I., MPC TO ID, C/N XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 ENERGY MANAG SYS ID															
40 TOTAL NONDEDICATED RES	308	308	270	254	254	254	254	254	212	159	144	168	234	245	238
41 TOTAL RESOURCES	1621	1634	1879	1743	1561	1891	1957	1772	1676	1544	1532	1770	1731	1811	1746

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MONTANA POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

MONTANA POWER COMPANY
DEDICATED RESOURCES

HYDRO INDEPENDENTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	MYSTIC LAKE 5B1A	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
2	BLACK EAGLE 5B1A	5	5	5	5	5	4	4	4	4	5	6	5	4	5	5
3	HOLTER 5B1A	9	9	9	9	9	8	7	7	7	9	11	9	8	9	8
4	HAUSER 5B1A	5	4	5	4	4	4	4	4	4	5	5	5	4	4	4
5	MILLTOWN & FLINTCREEK 5B1A	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0
6	MADISON 5B1A	3	3	3	3	3	2	2	2	2	3	3	3	2	3	3
7	RAINBOW 5B1A	11	10	11	11	10	9	8	9	9	11	13	11	9	10	10
8	COCHRANE 5B1A	8	8	9	8	8	7	6	7	6	8	10	8	7	8	8
9	RYAN 5B1A	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2
10	MORONY 5B1A	9	9	10	9	9	8	7	7	7	10	11	10	8	9	9
11	HEBGEN 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REGULATED HYDRO

12	KERR 5B1A	28	37	54	47	36	46	39	42	39	42	58	55	47	39	44
13	THOMPSON FALLS 5B1A	11	13	15	15	14	13	12	12	12	28	37	31	26	20	18
14	TOTAL HYDRO	93	102	125	115	102	105	93	97	94	125	160	141	120	111	112

LARGE THERMAL

15	COLSTRIP 1&2 SHARE 5B1A	98	94	103	97	96	85	77	78	79	51	101	67	84	96	86
16	COLSTRIP 3 SHARE 5B1B	72	69	76	72	71	63	57	58	58	75	36	46	62	71	63
17	TOTAL THERMAL	170	163	179	169	167	148	134	136	137	126	137	113	146	167	149

OTHER RESOURCES

18	BIRD, SMALL THERMAL 5B1B	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0
19	NON-UTILITY GEN 5B1B	13	13	15	14	14	12	10	11	11	16	19	16	28	31	16
20	TOTAL OTHER RESOURCES	13	13	15	14	15	13	11	12	11	16	19	16	28	31	16

EXPORTS

IMPORTS

CONTRACTS OUT

21	MPC TO ID, SEAS PWR X 5B1B	-75	-75	0	0	0	0	0	0	0	0	0	0	0	-75	-12
22	MPC TO BPA,C/N XCHG 5B1A	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
23	RESTORATION 5B1A	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
24	TOTAL CONTRACTS OUT	-98	-98	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-98	-35

TABLE D-2 (CONTINUED)

MONTANA POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
CONTRACTS IN																
25 IDA TO MPC SEA PWR XCH 5B1B	0	0	0	0	25	50	50	25	0	0	0	0	0	0	12	
26 IDA TO MPC, PWR SALE 5B1B	26	26	26	78	78	78	78	78	78	26	26	26	26	26	52	
27 BPA TO MPC, WNP1 OBL 5B1B	76	76	76	76	76	76	76	76	76	61	61	23	23	61	65	
28 BPA TO MPC, C/N XCHG 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 TOTAL CONTRACTS IN 7731 7734	76	76	76	76	76	76	76	76	76	61	61	23	23	61	65	
TOTAL DEDICATED RESOURCES																
30 ACQUIRED PRIOR TO ACT, 5B1A	168	173	204	189	174	167	147	153	149	153	238	186	181	184	175	
31 ACQUIRED, POST ACT, 5B1B	112	109	193	240	265	280	272	249	223	178	142	111	139	114	196	
32 TOTAL DEDICATED RESOURCES	280	282	397	429	439	447	419	402	372	331	380	297	320	298	371	
NONDEDICATED RESOURCES																
33 REG HYDRO, KERR	2	2	3	3	2	3	3	3	2	3	4	4	3	2	3	
34 LG THRM, COL4 50% SLD TO LA	196	196	196	196	196	196	196	196	196	196	79	121	196	196	185	
35 EXPORT, MPC TO LA, PWR SALE	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	
36 SM TH & MISC, CORRETTE	50	48	53	50	49	43	39	40	40	52	62	52	0	49	43	
37 C.O., MPC TO BPA, PWR SALE	0	0	-80	-80	-80	-80	-80	-80	-80	-80	-80	0	0	0	-53	
38 C.O., MPC TO PP&L, PWR SALE	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	
39 C.O., MPC TO PSP&L, PWR S	-77	-77	-77	-77	-77	-77	-77	-77	-77	0	0	-77	-77	-77	-71	
40 C.O., MPC TO WWP, PWR SALE	0	0	-54	-73	-54	-34	0	0	0	0	0	0	0	0	-18	
41 TOTAL NONDEDICATED RES	70	68	-60	-82	-65	-50	-20	-19	-20	70	-36	-1	21	69	-12	
42 TOTAL RESOURCES	350	350	337	347	374	397	399	383	352	401	344	296	341	367	360	

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MONTANA POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

MONTANA POWER COMPANY
DEDICATED RESOURCES

HYDRO INDEPENDENTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1 MYSTIC LAKE	5B1A	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
2 BLACK EAGLE	5B1A	5	5	4	5	5	5	5	5	5	5	6	6	5	5	5
3 HOLTER	5B1A	8	9	8	8	9	9	9	9	9	9	11	10	9	8	9
4 HAUSER	5B1A	4	4	4	4	4	5	5	5	4	4	5	5	4	4	4
5 MILLTOWN & FLINTCREEK	5B1A	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0
6 MADISON	5B1A	2	3	2	2	3	3	3	3	2	3	3	3	2	3	3
7 RAINBOW	5B1A	10	11	10	10	10	11	11	11	10	11	13	12	10	10	11
8 COCHRANE	5B1A	7	8	7	8	8	8	8	8	8	8	10	9	8	8	8
9 RYAN	5B1A	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2
10 MORONY	5B1A	8	9	8	9	9	10	10	9	9	9	11	10	9	9	9
11 HEBGEN	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REGULATED HYDRO

12 KERR	5B1A	51	34	45	43	53	55	54	42	32	34	40	58	53	49	47
13 THOMPSON FALLS	5B1A	20	15	18	18	21	22	22	21	17	25	36	33	30	22	23
14 TOTAL HYDRO		119	102	110	111	126	132	131	118	101	112	140	149	135	122	123

LARGE THERMAL

15 COLSTRIP 1&2 SHARE	5B1A	89	97	86	91	95	100	101	100	95	48	98	71	94	93	91
16 COLSTRIP 3 SHARE	5B1B	66	71	64	67	70	74	75	74	70	71	35	49	70	69	67
17 TOTAL THERMAL		155	168	150	158	165	174	176	174	165	119	133	120	164	162	158

OTHER RESOURCES

18 BIRD, SMALL THERMAL	5B1B	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
19 NON-UTILITY GEN	5B1B	28	30	28	29	30	31	32	31	30	32	39	36	31	30	31
20 TOTAL OTHER RESOURCES		28	30	28	29	31	32	33	32	31	33	40	37	32	31	32

EXPORTS

IMPORTS

CONTRACTS OUT

21 MPC TO ID, SEAS PWR X	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 MPC TO BPA,C/N XCHG	5B1A	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
23 RESTORATION	5B1A	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
24 TOTAL CONTRACTS OUT		-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23

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MONTANA POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS IN															
25 IDA TO MPC SEA PWR XCH 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 IDA TO MPC, PWR SALE 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 BPA TO MPC,WNP1 OBL 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 BPA TO MPC,C/N XCHG 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 TOTAL CONTRACTS IN7731 7734	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES															
30 ACQUIRED PRIOR TO ACT, 5B1A	185	175	173	179	198	208	209	195	173	137	215	197	206	192	190
31 ACQUIRED, POST ACT, 5B1B	94	101	92	96	101	106	108	106	101	104	75	86	102	100	99
32 TOTAL DEDICATED RESOURCES	279	276	265	275	299	314	317	301	274	241	290	283	308	292	289
NONDEDICATED RESOURCES															
33 REG HYDRO, KERR	3	2	3	3	3	3	3	3	2	2	3	4	3	3	3
34 LG THRM, COL4 50% SLD TO LA	196	196	196	196	196	196	196	196	196	196	79	121	196	196	185
35 EXPORT, MPC TO LA, PWR SALE	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91
36 SM TH & MISC, CORRETTE	46	50	44	47	49	51	52	51	48	49	60	55	0	48	46
37 C.O., MPC TO BPA, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 C.O., MPC TO PP&L, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 C.O., MPC TO PSP&L, PWR S	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	0	-77	-77	-77	-71
40 C.O., MPC TO WNP, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 TOTAL NONDEDICATED RES	77	80	75	78	80	82	83	82	78	156	51	12	31	79	72
42 TOTAL RESOURCES	356	356	340	353	379	396	400	383	352	397	341	295	339	371	361

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TABLE D-2

MONTANA POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		2003- 4 OPERATING YEAR														
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
MONTANA POWER COMPANY DEDICATED RESOURCES																
HYDRO INDEPENDENTS																
1	MYSTIC LAKE	5B1A	2	2	2	2	2	2	2	2	2	3	2	2	2	2
2	BLACK EAGLE	5B1A	4	4	4	4	4	5	5	4	5	6	5	5	5	5
3	HOLTER	5B1A	7	8	7	7	8	8	8	8	8	10	9	8	8	8
4	HAUSER	5B1A	4	4	4	4	4	4	4	4	4	5	5	4	4	4
5	MILLTOWN & FLINTCREEK	5B1A	0	0	0	0	1	0	0	1	0	0	0	1	0	0
6	MADISON	5B1A	2	2	2	2	2	3	3	2	2	3	3	2	2	2
7	RAINBOW	5B1A	9	10	9	9	10	10	10	10	10	12	11	10	10	10
8	COCHRANE	5B1A	7	8	7	7	7	8	8	7	7	9	8	7	7	7
9	RYAN	5B1A	2	2	1	2	2	2	2	2	1	2	2	2	2	2
10	MORONY	5B1A	8	9	7	8	8	9	9	8	9	10	9	8	8	8
11	HEBGEN	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULATED HYDRO																
12	KERR	5B1A	47	31	41	39	49	51	51	40	30	32	38	55	49	46
13	THOMPSON FALLS	5B1A	18	14	16	17	19	21	21	20	16	23	34	31	28	21
14	TOTAL HYDRO		110	94	100	101	116	122	124	111	94	103	132	140	126	114
LARGE THERMAL																
15	COLSTRIP 1&2 SHARE	5B1A	82	89	79	83	88	93	95	94	88	45	92	66	88	89
16	COLSTRIP 3 SHARE	5B1B	61	66	58	62	65	68	71	69	65	66	32	46	65	65
17	TOTAL THERMAL		143	155	137	145	153	161	166	163	153	111	124	112	153	147
OTHER RESOURCES																
18	BIRD, SMALL THERMAL	5B1B	1	1	0	0	1	1	1	1	1	1	1	1	1	1
19	NON-UTILITY GEN	5B1B	26	28	25	27	28	29	30	29	28	30	36	33	29	29
20	TOTAL OTHER RESOURCES		27	29	25	27	29	30	31	30	29	31	37	34	30	30
EXPORTS																
IMPORTS																
CONTRACTS OUT																
21	MPC TO ID, SEAS PWR X	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	MPC TO BPA,C/N XCHG	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	RESTORATION	5B1A	6	6	6	6	6	6	6	6	6	6	6	6	6	6
24	TOTAL CONTRACTS OUT		6	6	6	6	6	6	6	6	6	6	6	6	6	6

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TABLE D-2 (CONTINUED)

MONTANA POWER COMPANY
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
CONTRACTS IN																
25 IDA TO MPC SEA PWR XCH 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 IDA TO MPC, PWR SALE 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 BPA TO MPC, WNP1 OBL 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 BPA TO MPC, C/N XCHG 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 TOTAL CONTRACTS IN 7731 7734	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES																
30 ACQUIRED PRIOR TO ACT, 5B1A	198	189	185	191	210	220	225	211	188	154	229	212	220	210	205	
31 ACQUIRED, POST ACT, 5B1B	88	95	83	89	94	98	102	99	94	97	69	80	95	95	92	
32 TOTAL DEDICATED RESOURCES	286	284	268	280	304	318	327	310	282	251	298	292	315	305	297	
NONDEDICATED RESOURCES																
33 REG HYDRO, KERR	3	2	3	3	3	3	3	3	2	2	2	3	3	3	3	3
34 LG THRM, COL4 50% SLD TO LA	196	196	196	196	196	196	196	196	196	196	79	121	196	196	185	
35 EXPORT, MPC TO LA, PWR SALE	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91	-91
36 SM TH & MISC, CORRETTE	42	46	41	43	45	47	49	48	45	46	56	51	0	45	42	
37 C.O., MPC TO BPA, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 C.O., MPC TO PP&L, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 C.O., MPC TO PSP&L, PWR S	-77	-77	-77	-77	-77	-77	-77	-77	-77	0	0	-77	-77	-77	-77	-71
40 C.O., MPC TO WNP, PWR SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 TOTAL NONDEDICATED RES	73	76	72	74	76	78	80	79	75	153	46	7	31	76	68	
42 TOTAL RESOURCES	359	360	340	354	380	396	407	389	357	404	344	299	346	381	365	

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TABLE D-3

PACIFIC POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
PACIFIC POWER & LIGHT DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	NORTH UMPQUA	5B1A	86	86	80	80	80	123	104	163	122	123	123	122	102	86	106
2	ROGUE	5B1A	30	30	26	27	24	52	41	52	51	51	50	39	26	39	
3	KLAMATH	5B1A	4	2	10	32	36	32	44	44	33	30	23	4	8	25	
4	CNDT, SM PLTS & BIG FK	5B1A	24	24	21	22	22	24	21	31	29	35	35	31	28	26	26
5	USBR GREENSPRINGS	5B1A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
6	FELT	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
REGULATED HYDRO																	
7	WELLS DED SHARE	5B1A	30	27	24	24	31	29	35	26	29	25	23	35	21	23	27
8	ROCKY REACH SHARE	5B1A	37	31	28	28	36	34	41	32	33	30	30	44	25	30	33
9	WANAPUM SHARE	5B1A	80	82	72	73	96	92	113	82	89	77	81	86	67	73	84
10	PRIEST RAPIDS SHARE	5B1A	66	68	61	62	77	74	88	68	72	65	67	67	58	61	68
11	PELTON REREG DED SHARE	5B1B	8	8	9	7	7	13	7	9	9	8	7	8	8	8	8
12	SWIFT 1 SHARE	5B1A	19	17	26	36	50	44	47	67	47	68	67	0	33	19	38
13	SWIFT 2 SHARE	5B1A	5	5	7	12	17	16	18	24	18	25	23	0	10	5	13
14	YALE	5B1A	19	17	40	34	50	66	60	113	86	48	13	22	35	21	48
15	MERWIN	5B1A	17	17	44	25	36	60	49	113	73	37	19	22	26	16	42
16	TOTAL HYDRO		433	422	456	470	570	667	676	832	699	630	577	518	464	410	566
LARGE THERMAL																	
17	CENTRALIA SHARE	5B1A	586	586	586	586	586	586	586	586	586	586	586	409	482	586	563
18	COLSTRIP 3 SHARE	5B1B	65	66	65	65	65	65	65	65	65	66	26	40	65	65	61
19	COLSTRIP 4 SHARE	5B1B	66	65	66	65	65	65	65	66	65	66	26	40	66	66	62
20	TOTAL LARGE THERMAL		717	717	717	716	716	716	716	717	716	638	489	613	717	686	
OTHER RESOURCES																	
21	NON-UTILITY GEN	5B1B	51	51	49	48	51	52	34	55	50	54	54	64	53	52	51
22	TOTAL OTHER RESOURCES		51	51	49	48	51	52	34	55	50	54	54	64	53	52	51
EXPORTS																	
IMPORTS																	
23	PP&L (WYO) TO PP&L	5B1A	1083	1083	791	895	1021	1046	1054	1078	1062	946	946	1068	1085	1130	1022
24	TOTAL IMPORTS		1083	1083	791	895	1021	1046	1054	1078	1062	946	946	1068	1085	1130	1022
CONTRACTS OUT																	
25	CANADIAN ENTIT (CSPE)	5B1A	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
26	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	TOTAL CONTRACTS OUT		-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5

TABLE D-3 (CONTINUED)

PACIFIC POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
CONTRACTS IN																	
28 RESTORATION	5B1A	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
29 CSPE PURCHASE	5B1A	28	28	28	28	28	28	28	28	28	27	27	27	27	27	27	28
30 SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 PGE TO PP&L, COVE REP	5B1A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
32 BPA TO PP&L, BRDG CAP S	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 BPA TO PP&L, WNP1 OBLIG	5B1B	80	80	80	80	80	80	80	80	80	43	43	44	44	44	44	68
34 BPA TO PP&L, WNP3 STLE	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 WWP TO PP&L, SANDPOINT	5B1A	2	2	2	2	3	3	3	3	2	2	2	2	2	2	2	2
36 TOTAL CONTRACTS IN		143	143	143	143	144	144	144	144	143	105	105	106	106	106	106	131
TOTAL DEDICATED RESOURCES																	
37 ACQUIRED PRIOR TO ACT,	5B1A	2152	2141	1882	2002	2229	2345	2368	2546	2396	2211	2159	2044	2080	2175	2200	2200
38 ACQUIRED, POST ACT,	5B1B	270	270	269	265	268	275	251	275	269	237	156	196	236	235	250	250
39 TOTAL DEDICATED RESOURCES		2422	2411	2151	2267	2497	2620	2619	2821	2665	2448	2315	2240	2316	2410	2450	2450
NONDEDICATED RESOURCES																	
40 M HYDRO, WELLS ND SHARE		3	2	2	2	2	3	3	3	2	2	2	3	1	2	2	2
41 EXP, PP&L TO PP&L N.CAL, PS		-65	-65	-20	-1	7	12	15	28	37	29	29	-1	-58	-85	-8	-8
42 EXP, PP&L TO PG&E, PWR SALE		-29	-29	-28	-28	-29	-28	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29
43 EXP, PP&L TO SMUD, PWR SALE		-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
44 EXP, PP&L TO SCE, PWR SALE		-58	-58	-58	-58	-58	-58	-58	-58	-58	-54	-54	-54	-54	-58	-57	-57
45 EXP, PP&L TO CA DPT WTR RES		-78	-78	-73	-69	-67	-71	-74	-72	-67	-62	-62	-66	-70	-79	-71	-71
46 EXP, PP&L TO WAPA, PWR SALE		-205	-205	-204	-186	-185	-193	-188	-148	-185	-182	-182	-185	-204	-204	-189	-189
47 CONT OUT, PP&L TO BPA, WP3 S		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 CONT OUT, PP&L TO CHL, C/N X		-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23
49 CONT OUT, PP&L TO PSP&L, PS2		-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
50 CONT IN, BPA TO PP&L, SO ID		13	13	42	108	161	215	189	145	117	90	90	0	18	34	94	94
51 CONT IN, GRANT TO PP&L, PS		13	13	10	8	7	8	9	7	8	10	10	13	14	14	10	10
52 CONT IN, CHL TO PP&L, C/N X		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 CONT IN, MPC TO PP&L, SALE		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
54 CONT IN, WWP TO PP&L, PS		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
55 TOTAL NONDEDICATED RES		-529	-530	-452	-347	-285	-235	-256	-247	-298	-318	-318	-442	-505	-528	-370	-370
56 TOTAL RESOURCES		1893	1881	1699	1920	2212	2385	2363	2574	2367	2130	1997	1798	1811	1882	2080	2080

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TABLE D-3

PACIFIC POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

SHEET 1 OF 2

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		1998-99 OPERATING YEAR														
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PACIFIC POWER & LIGHT DEDICATED RESOURCES																
HYDRO INDEPENDENTS																
1	NORTH UMPQUA	86	86	80	80	80	123	104	163	122	123	123	122	102	86	106
2	ROGUE	30	30	27	27	24	52	41	52	51	51	51	50	39	26	39
3	KLAMATH	4	2	10	32	36	32	44	44	33	30	30	23	4	8	25
4	CNOST, SM PLTS & BIG FK	24	24	22	22	22	24	21	31	29	35	35	31	28	26	26
5	USBR GREENSPRINGS	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
6	FELT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
REGULATED HYDRO																
7	WELLS DED SHARE	26	26	23	23	29	29	35	27	30	26	23	35	27	23	28
8	ROCKY REACH SHARE	31	30	27	28	34	34	41	32	35	31	30	44	32	29	33
9	MANAPUM SHARE	83	79	70	71	92	91	114	85	93	80	79	126	91	77	89
10	PRIEST RAPIDS SHARE	56	66	60	60	74	74	88	70	75	67	66	67	74	60	69
11	PELTON REREG DED SHARE	8	8	9	7	7	12	7	9	9	8	7	8	8	8	8
12	SWIFT 1 SHARE	19	17	26	36	50	44	47	67	47	68	67	0	33	19	38
13	SWIFT 2 SHARE	5	5	7	12	17	16	18	24	18	25	23	0	10	5	13
14	YALE	19	17	38	33	48	65	59	110	83	46	13	21	34	20	47
15	MERWIN	16	16	33	28	40	66	54	125	80	40	19	24	28	17	45
16	TOTAL HYDRO	415	414	438	467	561	670	681	847	713	638	574	559	518	412	574
LARGE THERMAL																
17	CENTRALIA SHARE	587	587	587	587	587	587	587	587	587	587	587	430	465	587	564
18	COLSTRIP 3 SHARE	65	65	65	65	65	65	65	65	65	66	26	40	65	65	61
19	COLSTRIP 4 SHARE	66	66	66	65	66	65	65	65	66	65	26	40	66	66	62
20	TOTAL LARGE THERMAL	718	718	718	717	718	717	717	717	718	718	639	510	596	718	687
OTHER RESOURCES																
21	NON-UTILITY GEN	51	51	50	48	51	52	34	55	50	55	54	64	53	52	51
22	TOTAL OTHER RESOURCES	51	51	50	48	51	52	34	55	50	55	54	64	53	52	51
EXPORTS																
IMPORTS																
23	PP&L (WYO) TO PP&L	914	914	568	600	603	857	867	871	735	780	780	903	920	971	799
24	TOTAL IMPORTS	914	914	568	600	603	857	867	871	735	780	780	903	920	971	799
CONTRACTS OUT																
25	CANADIAN ENTIT (CSPE)	-5	-5	-5	-5	-5	-5	-5	-5	-5	-4	-4	-4	-4	-4	-5
26	CANADIAN ENTITL (CAN)	-2	-2	-2	-2	-2	-2	-2	-2	-2	-7	-7	-7	-7	-7	-4
27	TOTAL CONTRACTS OUT	-7	-7	-7	-7	-7	-7	-7	-7	-7	-11	-11	-11	-11	-11	-8

PACIFIC POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS IN																
28 RESTORATION	5B1A	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
29 CSPE PURCHASE	5B1A	22	22	22	22	22	22	22	22	22	10	10	10	10	10	18
30 SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 PGE TO PP&L, COVE REP	5B1A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
32 BPA TO PP&L, BRDG CAP S	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 BPA TO PP&L, WNP1 OBLIG	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 BPA TO PP&L, WNP3 STLE	5B1B	0	0	0	0	158	158	158	158	79	79	79	0	0	0	66
35 WWP TO PP&L, SANDPOINT	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 TOTAL CONTRACTS IN		55	55	55	55	213	213	213	213	134	122	122	43	43	43	117
TOTAL DEDICATED RESOURCES																
37 ACQUIRED PRIOR TO ACT,	5B1A	1956	1955	1632	1695	1792	2150	2176	2344	2074	2029	1966	1916	1927	1994	1971
38 ACQUIRED, POST ACT,	5B1B	190	190	190	185	347	352	329	352	269	273	192	152	192	191	248
39 TOTAL DEDICATED RESOURCES		2146	2145	1822	1880	2139	2502	2505	2696	2343	2302	2158	2068	2119	2185	2220
NONDEDICATED RESOURCES																
40 M HYDRO, WELLS ND SHARE		2	2	2	2	3	3	3	2	2	2	2	3	2	1	2
41 EXP, PP&L TO PP&L N.CAL, PS		-68	-68	-22	-3	4	9	12	24	34	26	26	-4	-61	-89	-11
42 EXP, PP&L TO PG&E, PWR SALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 EXP, PP&L TO SMUD, PWR SALE		-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
44 EXP, PP&L TO SCE, PWR SALE		-58	-58	-58	-58	-58	-58	-58	-58	-58	-54	-54	-54	-54	-58	-57
45 EXP, PP&L TO CA DPT WTR RES		-78	-78	-73	-69	-67	-71	-74	-72	-67	-62	-62	-66	-70	-79	-71
46 EXP, PP&L TO WAPA, PWR SALE		-205	-205	-204	-186	-185	-193	-188	-148	-185	-182	-182	-185	-204	-204	-189
47 CONT OUT, PP&L TO BPA, WP3 S		0	0	-87	-87	-87	-87	-87	-87	-87	-87	-87	0	-87	0	-65
48 CONT OUT, PP&L TO CHL, C/N X		-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23
49 CONT OUT, PP&L TO PSP&L, PS2		-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
50 CONT IN, BPA TO PP&L, SO ID		13	13	42	108	161	215	189	145	117	90	90	0	18	34	94
51 CONT IN, GRANT TO PP&L, PS		13	13	10	8	7	8	9	7	8	10	10	12	14	14	10
52 CONT IN, CHL TO PP&L, C/N X		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 CONT IN, MPC TO PP&L, SALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 CONT IN, WWP TO PP&L, PS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 TOTAL NONDEDICATED RES		-564	-564	-573	-468	-405	-357	-377	-370	-419	-440	-440	-477	-625	-564	-470
56 TOTAL RESOURCES		1582	1581	1249	1412	1734	2145	2128	2326	1924	1862	1718	1591	1494	1621	1750

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TABLE D-3

PACIFIC POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
PACIFIC POWER & LIGHT DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	NORTH UMPQUA	5B1A	86	86	80	80	80	123	104	163	122	123	123	122	102	86	106
2	ROGUE	5B1A	30	30	26	27	24	52	41	52	51	51	50	39	26	39	
3	KLAMATH	5B1A	4	2	10	32	36	32	44	44	33	30	23	4	8	25	
4	CNDT, SM PLTS & BIG FK	5B1A	24	24	21	22	22	24	21	31	29	35	35	31	28	26	
5	USBR GREENSPRINGS	5B1A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
6	FELT	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
REGULATED HYDRO																	
7	WELLS DED SHARE	5B1A	26	26	23	23	29	29	35	27	30	26	23	35	27	23	28
8	ROCKY REACH SHARE	5B1A	31	30	27	28	34	34	41	32	35	31	30	44	32	29	33
9	WANAPUM SHARE	5B1A	83	79	70	71	92	91	114	85	93	80	79	126	91	77	89
10	PRIEST RAPIDS SHARE	5B1A	56	66	60	60	74	74	88	70	75	67	66	67	74	60	69
11	PELTON REREG DED SHARE	5B1B	8	8	9	7	7	12	7	9	9	8	7	8	8	8	8
12	SWIFT 1 SHARE	5B1A	19	17	26	36	50	44	47	67	47	68	67	0	33	19	38
13	SWIFT 2 SHARE	5B1A	5	5	7	12	17	16	18	24	18	25	23	0	10	5	13
14	YALE	5B1A	19	17	38	33	48	65	59	110	83	46	13	21	34	20	47
15	MERWIN	5B1A	16	16	33	28	40	66	54	125	80	40	19	24	28	17	45
16	TOTAL HYDRO		415	414	438	467	561	670	681	847	713	638	574	559	518	412	574
LARGE THERMAL																	
17	CENTRALIA SHARE	5B1A	587	587	587	587	587	587	587	587	587	587	587	376	526	587	564
18	COLSTRIP 3 SHARE	5B1B	65	65	66	65	65	66	65	65	65	65	26	40	65	66	62
19	COLSTRIP 4 SHARE	5B1B	66	66	65	66	66	65	66	66	65	65	26	40	66	66	62
20	TOTAL LARGE THERMAL		718	718	718	718	718	718	718	717	717	639	456	657	719	688	
OTHER RESOURCES																	
21	NON-UTILITY GEN	5B1B	51	51	50	48	51	52	34	55	50	54	55	64	53	52	51
22	TOTAL OTHER RESOURCES		51	51	50	48	51	52	34	55	50	54	55	64	53	52	51
EXPORTS																	
IMPORTS																	
23	PP&L (WYO) TO PP&L	5B1A	809	809	512	582	739	746	740	781	773	658	658	786	802	854	732
24	TOTAL IMPORTS		809	809	512	582	739	746	740	781	773	658	658	786	802	854	732
CONTRACTS OUT																	
25	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	CANADIAN ENTITL (CAN)	5B1A	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
27	TOTAL CONTRACTS OUT		-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11

TABLE D-3 (CONTINUED)

PACIFIC POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS IN																
28 RESTORATION	5B1A	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
29 CSPE PURCHASE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3
31 PGE TO PP&L, COVE REP	5B1A	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0
32 BPA TO PP&L, BRDG CAP S	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 BPA TO PP&L, WNP1 OBLIG	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 BPA TO PP&L, WNP3 STLE	5B1B	0	0	0	0	157	158	157	158	79	79	79	0	0	0	66
35 WWP TO PP&L, SANDPOINT	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 TOTAL CONTRACTS IN		33	33	33	33	190	191	190	191	112	112	112	33	33	33	99
TOTAL DEDICATED RESOURCES																
37 ACQUIRED PRIOR TO ACT,	5B1A	1825	1824	1550	1651	1902	2013	2023	2228	2086	1897	1834	1735	1860	1867	1884
38 ACQUIRED, POST ACT,	5B1B	190	190	190	186	346	353	329	353	268	271	193	152	192	192	249
39 TOTAL DEDICATED RESOURCES		2015	2014	1740	1837	2248	2366	2352	2581	2354	2168	2027	1887	2052	2059	2132
NONDEDICATED RESOURCES																
40 M HYDRO, WELLS ND SHARE		2	2	2	2	3	3	3	2	2	2	2	3	2	1	2
41 EXP, PP&L TO PP&L N.CAL, PS		-74	-74	-27	-9	-1	2	5	19	29	20	20	-10	-68	-96	-17
42 EXP, PP&L TO PG&E, PWR SALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 EXP, PP&L TO SMUD, PWR SALE		-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
44 EXP, PP&L TO SCE, PWR SALE		-58	-58	-58	-58	-58	-58	-58	-58	-58	-54	-54	-54	-54	-58	-57
45 EXP, PP&L TO CA DPT WTR RES		-78	-78	-73	-69	-67	-71	-74	-72	-67	-62	-62	-66	-70	-79	-71
46 EXP, PP&L TO WAPA, PWR SALE		-205	-205	-204	-186	-185	-193	-188	-148	-185	-182	-182	-185	-204	-204	-189
47 CONT OUT, PP&L TO BPA, WP3 S		0	0	-87	-87	-87	-87	-87	-87	-87	-87	-87	0	-87	0	-65
48 CONT OUT, PP&L TO CHL, C/N X		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 CONT OUT, PP&L TO PSP&L, PS2		-120	-120	-120	-120	0	0	0	0	0	0	0	0	0	0	-30
50 CONT IN, BPA TO PP&L, SO ID		13	13	42	108	161	215	189	145	117	90	90	0	18	34	94
51 CONT IN, GRANT TO PP&L, PS		13	13	10	8	7	8	9	7	8	10	10	13	14	14	10
52 CONT IN, CHL TO PP&L, C/N X		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 CONT IN, MPC TO PP&L, SALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 CONT IN, WWP TO PP&L, PS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 TOTAL NONDEDICATED RES		-547	-547	-555	-451	-267	-221	-241	-232	-281	-303	-303	-339	-489	-428	-363
56 TOTAL RESOURCES		1468	1467	1185	1386	1981	2145	2111	2349	2073	1865	1724	1548	1563	1631	1769

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PORTLAND GENERAL ELECTRIC
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR												JUL		
	AUG 1-15 16-31	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15 16-30	APR 16-30	MAY		JUN	
PORTLAND GENERAL ELECTRIC DEDICATED RESOURCES															
HYDRO INDEPENDENTS															
1 BULL RUN	4	4	1	1	1	15	13	15	14	14	14	14	7	6	9
2 TW SULLIVAN	14	14	14	14	14	14	14	14	14	14	14	14	14	13	14
REGULATED HYDRO															
3 ROUND BUTTE	82	83	94	78	76	128	75	94	92	82	71	87	83	87	88
4 PELTON	33	33	38	32	32	51	32	38	37	33	29	35	33	35	36
5 OAK GROVE	34	34	34	34	24	20	17	29	23	26	33	21	34	34	28
6 NORTH FORK	11	10	10	10	8	33	14	53	22	20	21	23	16	11	19
7 FARADAY	10	9	9	9	7	30	13	43	20	18	18	21	15	10	17
8 RIVER MILL	6	5	5	5	4	17	7	23	12	10	10	12	8	6	10
9 PRIEST RAPIDS SHARE	65	68	61	62	77	74	88	68	72	65	67	67	58	61	68
10 WANAPUM SHARE	80	82	72	73	96	92	113	82	89	77	81	86	67	73	84
11 ROCKY REACH SHARE	83	71	63	64	81	77	93	71	76	67	69	101	57	67	75
12 WELLS SHARE	97	86	76	77	98	94	111	84	92	79	75	112	66	74	88
13 TOTAL HYDRO	519	499	477	459	518	645	590	614	563	505	502	593	458	477	534
LARGE THERMAL															
14 CENTRALIA SHARE	31	31	31	31	31	31	31	31	31	31	31	21	26	31	30
15 TOTAL THERMAL	31	31	31	31	31	31	31	31	31	31	31	21	26	31	30
OTHER RESOURCES															
16 SM TH8MISC, SUMMIT 1&2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 C.T., BETHEL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 C.T., BEAVER	49	49	50	51	52	52	53	52	52	51	51	50	50	49	51
20 COGEN, COYOTE SPRINGS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 TOTAL OTHER RESOURCES	52	52	53	54	55	56	56	56	55	54	54	54	53	52	54
EXPORTS															
IMPORTS															
22 SCE TO PGE, SEA PWR XCH	0	0	0	0	104	104	104	104	0	0	0	0	0	0	35
CONTRACTS OUT															
23 PGE TO PP&L, COVE REP	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
24 CANADIAN ENTIT (CSPE)	-10	-10	-10	-10	-10	-10	-10	-10	-10	-8	-8	-8	-8	-8	-9
25 CANADIAN ENTITL (CAN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 RESTORATION	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
27 TOTAL CONTRACTS OUT	-17	-17	-17	-17	-17	-17	-17	-17	-17	-15	-15	-15	-15	-15	-16

PORTLAND GENERAL ELECTRIC
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR														
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS IN															
28 CSPE PURCHASE 5B1A	49	49	49	49	49	49	49	49	49	47	47	47	47	47	48
29 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 TOTAL CONTRACTS IN	49	49	49	49	49	49	49	49	49	47	47	47	47	47	48
TOTAL DEDICATED RESOURCES															
31 ACQUIRED PRIOR TO ACT, 5B1A	634	614	593	576	636	763	709	733	681	622	619	699	569	592	650
32 ACQUIRED, POST ACT, 5B1B	0	0	0	0	104	105	104	104	0	0	0	1	0	0	35
33 TOTAL DEDICATED RESOURCES	634	614	593	576	740	868	813	837	681	622	619	700	569	592	684

NONDEDICATED RESOURCES

34 LG THRM, BOARDMAN SHARE	287	287	287	287	287	287	287	287	287	287	287	18	154	287	253
35 LG THRM, COLSTRIP 3 SHARE	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
36 LG THRM, COLSTRIP 4 SHARE	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
37 C.T., BEAVER	266	266	270	276	283	286	288	286	282	277	277	274	270	266	277
38 C.T., BETHEL	51	51	51	51	51	50	50	51	51	51	51	51	51	51	51
39 EXP, PGE TO BURBANK, SALE	-9	-9	-10	-7	-7	-7	-7	-7	-7	-7	-7	-7	-10	-9	-8
40 EXP, PGE TO GLENDALE, SALE	-20	-20	-19	-12	-13	-12	-12	-13	-12	-13	-13	-12	-19	-20	-15
41 EXP, PGE TO SCE, PWR SALE 1	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60
42 EXP, PGE TO SCE, SEA PWR XCH	-103	-103	-102	0	0	0	0	0	0	0	0	0	-103	-103	-34
43 EXP, PGE TO WAPA, PWR SALE	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65
44 CONT OUT, PGE TO BPA, MNP3 S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 CONT OUT, PGE TO CHEL, C/N X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 CONT IN, BPA TO PGE, MNP3 S	80	80	80	80	80	80	80	80	64	64	64	56	56	56	68
47 CONT IN, BPA TO PGE, MNP1 OB	8	8	1	0	0	0	0	0	0	0	0	0	8	7	2
48 CONT IN, CHEL TO PGE, C/N X	8	8	1	0	0	0	0	0	0	0	0	0	8	7	2
49 CONT IN, WWP TO PGE, CAP SL	19	19	19	23	31	34	33	32	31	32	32	30	24	20	27
50 NON-UTILITY GEN															
52 TOTAL NONDEDICATED RES	724	724	644	763	895	901	903	874	817	812	654	445	505	699	742
53 TOTAL RESOURCES	1358	1338	1237	1339	1635	1769	1716	1711	1498	1434	1273	1145	1074	1291	1426

TABLE D-4

SHEET 1 OF 2

PORTLAND GENERAL ELECTRIC
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
PORTLAND GENERAL ELECTRIC DEDICATED RESOURCES		-----															
HYDRO INDEPENDENTS		-----															
1	BULL RUN	5B1A	4	4	1	1	1	15	13	15	14	14	14	7	6	9	
2	TW SULLIVAN	5B1A	14	14	14	14	14	14	14	14	14	14	14	14	13	14	
REGULATED HYDRO		-----															
3	ROUND BUTTE	5B1A	82	83	94	78	76	128	75	94	92	82	71	87	83	87	88
4	PELTON	5B1A	33	33	38	32	32	51	32	38	37	33	29	35	34	35	36
5	OAK GROVE	5B1A	34	34	34	34	24	20	17	29	23	26	33	21	34	34	28
6	NORTH FORK	5B1A	11	10	10	10	8	33	14	53	22	20	20	23	16	11	19
7	FARADAY	5B1A	10	9	9	9	7	30	13	43	20	18	18	21	15	10	17
8	RIVER MILL	5B1A	6	5	5	5	4	17	7	23	12	10	11	12	8	6	10
9	PRIEST RAPIDS SHARE	5B1A	56	66	60	60	74	74	88	70	75	67	66	67	73	60	69
10	WANAPUM SHARE	5B1A	82	79	70	71	92	91	114	85	93	80	79	126	91	77	89
11	ROCKY REACH SHARE	5B1A	71	68	61	62	77	77	93	73	79	69	68	101	74	65	75
12	WELLS SHARE	5B1A	82	83	74	75	94	93	112	87	96	82	74	112	87	72	89
13	TOTAL HYDRO		485	488	470	451	503	643	592	624	577	515	497	633	536	476	541
LARGE THERMAL		-----															
14	CENTRALIA SHARE	5B1A	31	31	31	31	31	31	31	31	31	31	31	23	25	31	30
15	TOTAL THERMAL		31	31	31	31	31	31	31	31	31	31	31	23	25	31	30
OTHER RESOURCES		-----															
16	SM TH&MISC, SUMMIT 1&2	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	NON-UTILITY GENERATION	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	C.T., BETHEL	5B1A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	C.T., BEAVER	5B1A	77	77	77	77	77	77	77	77	77	38	38	38	53	53	66
20	COGEN, COYOTE SPRINGS	5B1B	240	240	240	240	240	240	240	240	0	0	240	240	240	220	
21	TOTAL OTHER RESOURCES		320	320	320	320	320	320	320	320	42	42	282	297	297	290	
EXPORTS		-----															
IMPORTS		-----															
22	SCE TO PGE,SEA PWR XCH	5B1B	0	0	0	0	104	104	104	104	0	0	0	0	0	0	35
CONTRACTS OUT		-----															
23	PGE TO PP&L,COVE REP	5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
24	CANADIAN ENTIT (CSPE)	5B1A	-7	-7	-7	-7	-7	-7	-7	-7	-7	-4	-4	-4	-4	-4	-6
25	CANADIAN ENTITL (CAN)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-11	-11	-11	-11	-11	-4	
26	RESTORATION	5B1A	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	
27	TOTAL CONTRACTS OUT		-15	-15	-15	-15	-15	-15	-15	-15	-22	-22	-22	-22	-22	-17	

TABLE D-4 (CONTINUED)

PORTLAND GENERAL ELECTRIC
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS IN															
28 CSPE PURCHASE 5B1A	38	38	38	38	38	38	38	38	38	18	18	18	18	18	31
29 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 TOTAL CONTRACTS IN	38	38	38	38	38	38	38	38	38	18	18	18	18	18	31
TOTAL DEDICATED RESOURCES															
31 ACQUIRED PRIOR TO ACT, 5B1A	619	622	604	585	637	777	726	758	711	583	565	693	613	559	655
32 ACQUIRED, POST ACT, 5B1B	240	240	240	240	344	344	344	344	240	1	1	241	241	241	255
33 TOTAL DEDICATED RESOURCES	859	862	844	825	981	1121	1070	1102	951	584	566	934	854	800	910
NONDEDICATED RESOURCES															
34 LG THRM, BOARDMAN SHARE	287	287	287	287	287	287	287	287	287	287	287	18	154	287	253
35 LG THRM, COLSTRIP 3 SHARE	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
36 LG THRM, COLSTRIP 4 SHARE	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
37 C.T., BEAVER	417	417	417	417	417	417	417	417	417	209	209	209	291	291	362
38 C.T., BETHEL	51	51	51	51	51	50	50	51	51	51	51	51	51	51	51
39 EXP, PGE TO BURBANK, SALE	-9	-9	-10	-7	-7	-7	-7	-7	-7	-7	-7	-7	-10	-9	-8
40 EXP, PGE TO GLENDALE, SALE	-20	-20	-19	-12	-13	-12	-12	-13	-12	-13	-13	-12	-19	-20	-15
41 EXP, PGE TO SCE, PWR SALE 1	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60
42 EXP, PGE TO SCE, SEA PWR XCH	-103	-103	-102	0	0	0	0	0	0	-65	-65	-65	-65	-65	-65
43 EXP, PGE TO WAPA, PWR SALE	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	0	-86	0	-64
44 CONT OUT, PGE TO BPA, WNP3 S	0	0	-86	-86	-86	-86	-86	-86	-86	-86	-86	0	0	0	-3
45 CONT OUT, PGE TO CHEL, C/N X	0	0	0	0	-10	-11	-10	-11	0	0	0	0	0	0	64
46 CONT IN, BPA TO PGE, WNP3 S	0	0	0	0	155	155	155	155	77	77	77	0	0	0	0
47 CONT IN, BPA TO PGE, WNP1 OB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 CONT IN, CHEL TO PGE, C/N X	8	7	1	0	0	0	0	0	0	0	0	0	8	8	2
49 CONT IN, WWP TO PGE, CAP SL	8	7	1	0	0	0	0	0	0	0	0	0	8	8	2
50 NON-UTILITY GEN	19	19	19	23	31	34	33	32	31	32	32	30	24	20	27
52 TOTAL NONDEDICATED RES	795	793	697	810	962	964	964	962	895	687	529	324	455	670	759
53 TOTAL RESOURCES	1654	1655	1541	1635	1943	2085	2034	2064	1846	1271	1095	1258	1309	1470	1669

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TABLE D-4

PORTLAND GENERAL ELECTRIC
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 16-31 AUG AUG SEP OCT NOV DEC JAN FEB MAR APR 1-15 16-30 APR MAY JUN JUL

PORTLAND GENERAL ELECTRIC
DEDICATED RESOURCES

	AUG 1-15	AUG 16-31	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
HYDRO INDEPENDENTS																
1 BULL RUN	4	14	4	14	1	14	15	13	15	14	14	14	14	14	14	9
2 TW SULLIVAN																14
REGULATED HYDRO																
3 ROUND BUTTE	82	83	83	94	78	76	128	75	94	92	82	71	87	83	87	88
4 PELTON	33	33	33	38	32	32	51	32	38	37	33	29	35	34	35	36
5 OAK GROVE	34	34	34	29	24	24	20	17	29	23	26	33	21	34	34	28
6 NORTH FORK	11	10	10	10	8	8	33	14	53	22	20	20	23	16	11	19
7 FARADAY	10	9	9	9	9	7	30	13	43	20	18	18	21	15	10	17
8 RIVER MILL	6	5	5	5	5	4	17	7	23	12	10	11	12	8	6	10
9 PRIEST RAPIDS SHARE	56	66	66	60	74	74	74	88	70	75	67	66	67	73	60	69
10 MANAPUM SHARE	82	79	79	70	92	91	91	114	85	93	80	79	126	91	77	89
11 ROCKY REACH SHARE	71	68	68	61	62	77	77	93	75	79	69	68	101	74	65	75
12 WELLS SHARE	82	83	83	74	75	94	93	112	87	96	82	74	112	87	72	89
13 TOTAL HYDRO	485	488	488	470	451	503	643	592	624	577	515	497	633	536	476	541

LARGE THERMAL

14 CENTRALIA SHARE	31	31	31	31	31	31	31	31	31	31	31	31	20	28	31	30
15 TOTAL THERMAL	31	31	31	31	31	31	31	31	31	31	31	31	20	28	31	30

OTHER RESOURCES

16 SM TH&MISC, SUMMIT 182	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 C.T., BETHEL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 C.T., BEAVER	77	77	77	77	77	77	77	77	77	77	38	38	38	53	53	66
20 COGEN, COYOTE SPRINGS	240	240	240	240	240	240	240	240	240	240	0	0	240	240	240	220
21 TOTAL OTHER RESOURCES	320	320	320	320	320	320	320	320	320	320	42	42	282	297	297	290

EXPORTS

IMPORTS

22 SCE TO PGE,SEA PWR XCH	0	0	0	0	0	104	104	104	104	0	0	0	0	0	0	35
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CONTRACTS OUT

23 PGE TO PP&L COVE REP	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
24 CANADIAN ENTIT (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 CANADIAN ENTITL (CAN)	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19
26 RESTORATION	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
27 TOTAL CONTRACTS OUT	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26

TABLE D-4 (CONTINUED)

PORTLAND GENERAL ELECTRIC
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS IN															
28 CSPE PURCHASE 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 TOTAL CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES															
31 ACQUIRED PRIOR TO ACT, 5B1A	570	573	555	536	588	728	677	709	662	561	543	668	594	537	615
32 ACQUIRED, POST ACT, 5B1B	240	240	240	240	344	344	344	344	240	1	1	241	241	241	255
33 TOTAL DEDICATED RESOURCES	810	813	795	776	932	1072	1021	1053	902	562	544	909	835	778	870
NONDEDICATED RESOURCES															
34 LG THRM, BOARDMAN SHARE	287	287	287	287	287	287	287	287	287	287	287	18	154	287	253
35 LG THRM, COLSTRIP 3 SHARE	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
36 LG THRM, COLSTRIP 4 SHARE	131	131	131	131	131	131	131	131	131	131	52	80	131	131	123
37 C.T., BEAVER	417	417	417	417	417	417	417	417	417	209	209	209	291	291	362
38 C.T., BETHEL	51	51	51	51	51	50	50	51	51	51	51	51	51	51	51
39 EXP, PGE TO BURBANK, SALE	-9	-9	-10	-7	-7	-7	-7	-7	-7	-7	-7	-7	-10	-9	-8
40 EXP, PGE TO GLENDALE, SALE	-20	-20	-19	-12	-13	-12	-12	-13	-12	-13	-13	-12	-19	-20	-15
41 EXP, PGE TO SCE, PWR SALE 1	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60
42 EXP, PGE TO SCE, SEA PWR XCH	-103	-103	-102	0	0	0	0	0	0	0	0	0	-103	-102	-34
43 EXP, PGE TO WAPA, PWR SALE	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65	-65
44 CONT OUT, PGE TO BPA, WNP3 S	0	0	-86	-86	-86	-86	-86	-86	-86	-86	-86	0	-86	0	-64
45 CONT OUT, PGE TO CHEL, C/N X	0	0	0	0	-10	-11	-11	-10	0	0	0	0	0	0	-3
46 CONT IN, BPA TO PGE, WNP3 S	0	0	0	0	155	155	155	155	77	78	78	0	0	0	65
47 CONT IN, BPA TO PGE, WNP1 OB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 CONT IN, CHEL TO PGE, C/N X	8	7	1	0	0	0	0	0	0	0	0	0	8	8	2
49 CONT IN, WWP TO PGE, CAP SL	8	7	1	0	0	0	0	0	0	0	0	0	8	8	2
50 NON-UTILITY GEN	19	19	19	23	31	34	33	32	31	32	32	30	24	20	27
52 TOTAL NONDEDICATED RES	795	793	697	810	962	964	963	963	895	688	530	324	455	670	759
53 TOTAL RESOURCES	1605	1606	1492	1586	1894	2036	1984	2016	1797	1250	1074	1233	1290	1448	1629

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PUGET SOUND POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		1994-95 OPERATING YEAR															
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
PUGET SOUND POWER & LIGHT DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	SNOQUALMIE, ELCT & NK	5B1A	41	36	29	27	21	52	36	67	51	68	68	64	63	44	47
REGULATED HYDRO																	
2	WHITE	5B1A	27	21	13	9	7	31	24	47	38	42	45	23	43	27	27
3	UPPER BAKER	5B1A	33	26	17	22	27	32	38	45	21	44	43	0	33	42	29
4	LOWER BAKER	5B1A	32	26	18	25	30	53	41	53	32	51	51	1	16	41	32
5	WELLS SHARE	5B1A	149	132	116	118	150	145	171	129	141	121	115	171	101	114	135
6	ROCKY REACH SHARE	5B1A	268	230	205	208	262	251	301	231	246	218	223	326	185	218	242
7	ROCK ISLAND SHARE	5B1A	384	337	306	311	375	361	423	336	354	322	332	456	293	330	353
8	WANAPUM SHARE	5B1A	47	48	41	42	56	53	65	48	51	44	46	50	39	42	48
9	PRIEST SHARE	5B1A	38	39	35	36	44	43	51	39	42	37	38	39	33	35	39
10	TOTAL HYDRO		1019	895	780	798	972	1021	1150	995	976	947	961	1130	806	893	953
LARGE THERMAL																	
11	CENTRALIA SHARE	5B1A	136	136	136	136	136	136	136	136	136	136	136	95	112	136	131
12	COLSTRIP 1&2 SHARE	5B1A	266	266	266	266	266	266	266	266	266	133	223	176	266	266	251
13	COLSTRIP 3 DED SHARE	5B1B	21	21	21	21	21	21	21	21	21	21	8	13	21	21	19
14	COLSTRIP 4 DED SHARE	5B1B	21	21	21	21	21	21	21	21	21	21	8	13	21	21	19
15	TOTAL LARGE THERMAL		443	443	443	443	443	443	443	443	443	310	376	296	419	443	420
OTHER RESOURCES																	
16	C.T., WHIDBEY ISLAND	5B1A	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1
17	C.T., WHITEHORN 1	5B1A	0	0	0	0	32	31	31	34	0	0	0	0	0	0	11
18	C.T., WHITEHORN 2 & 3	5B1B	0	0	0	0	85	82	82	91	0	0	0	0	0	0	28
19	SM TH&MISC, SHUFFLETN	5B1A	0	0	0	0	6	6	6	6	0	0	0	0	0	0	2
20	SM TH&MISC, CRYSTL MT	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	NON-UTILITY GEN,DED SHR	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	TOTAL OTHER RESOURCES		0	0	0	0	125	121	121	133	0	0	0	0	0	0	42
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
23	RESTORATION	5B1A	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
24	CANADIAN ENTIT (CSPE)	5B1A	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17
25	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	TOTAL CONTRACTS OUT		-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27

TABLE D-5 (CONTINUED)

PUGET SOUND POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR												JUL			
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY			JUN	
CONTRACTS IN																
27 CSPE PURCHASE 5B1A	49	49	49	49	49	49	49	49	49	49	47	47	47	47	47	48
28 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 BPA TO PSP&L, WNP1 OBL 5B1B	80	80	80	80	80	80	80	80	80	63	43	43	44	44	63	68
30 TOTAL CONTRACTS IN	129	129	129	129	129	129	129	129	129	112	90	90	91	91	110	116
TOTAL DEDICATED RESOURCES																
31 ACQUIRED PRIOR TO ACT, 5B1A	1443	1319	1204	1222	1436	1484	1613	1461	1400	1236	1340	1421	1204	1315	1369	
32 ACQUIRED, POST ACT, 5B1B	121	121	121	121	206	203	203	212	104	84	60	69	85	104	135	
33 TOTAL DEDICATED RESOURCES	1564	1440	1325	1343	1642	1687	1816	1673	1504	1320	1400	1490	1289	1419	1504	
NONDEDICATED RESOURCES																
34 LG THRM, COLSTRIP 3 ND SHR	144	144	144	144	144	144	144	144	144	144	58	88	144	144	135	
35 LG THRM, COLSTRIP 4 ND SHR	144	144	144	144	144	144	144	144	144	144	58	88	144	144	135	
37 C.T., FREDRICKSON	0	0	0	0	12	12	12	13	0	0	0	0	0	0	4	
38 C.T., FREDONIA	0	0	0	0	17	17	17	18	0	0	0	0	0	0	6	
39 EXPORT, PSP&L TO PG&E, S PWR	-141	-141	-141	0	0	0	0	0	0	0	0	0	-141	-141	-47	
40 IMPORT, PG&E TO PSP, SEA PWR	0	0	0	0	141	141	141	141	0	0	0	0	0	0	47	
41 IMPORT, BC HYDRO TO PSP&L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
42 CONT OUT, PSP&L TO BPA, WP3	0	0	-43	-43	-43	-43	-43	-43	-43	-43	-43	-43	0	-43	-32	
43 CONT OUT, PSP&L TO BPA, SAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
44 CONT OUT, PSP&L TO BPA, P XCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45 CONT IN, BPA TO PSP&L, WNP3	0	0	0	0	82	82	82	82	40	40	40	0	0	0	34	
46 CONT IN, PP&L TO PSP&L, PS2	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	
47 CONT IN, BPA TO PSP&L, BK HD	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1	
48 CONT IN, BPA TO PSP&L, PS/PXC	0	0	0	150	150	150	150	150	150	150	0	0	0	0	75	
49 CONT IN, MPC TO PSP&L, COL 4	77	77	77	77	77	77	77	77	77	77	0	77	77	77	71	
50 CONT IN, NO WASCO TO PSP&L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
51 CONT IN, OTHER TO PSP&L, SP P	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	
52 CONT IN, SNOH TO PSP&L, SF PU	3	3	4	4	5	8	7	6	6	5	5	4	4	3	5	
53 CONT IN, WWP TO PSP&L, PS 2	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	
54 NON-UTILITY GEN NON-DED SHR	641	641	653	653	653	653	653	653	653	641	641	258	562	641	609	
55 TOTAL NONDEDICATED RES	1068	1068	1038	1329	1584	1588	1587	1587	1371	1131	959	715	947	1068	1244	
56 TOTAL RESOURCES	2632	2508	2363	2672	3226	3275	3403	3260	2875	2451	2359	2205	2236	2487	2748	

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PUGET SOUND POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		1998-99 OPERATING YEAR														
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PUGET SOUND POWER & LIGHT DEDICATED RESOURCES																
HYDRO INDEPENDENTS																
1	SNOQUALMIE, ELCT & NK 5B1A	41	36	29	27	21	52	36	67	51	68	68	64	63	44	47
REGULATED HYDRO																
2	WHITE 5B1A	27	21	13	9	7	31	24	47	38	42	45	23	43	27	27
3	UPPER BAKER 5B1A	32	26	17	22	27	32	38	45	21	44	43	0	33	42	29
4	LOWER BAKER 5B1A	32	26	18	25	30	53	41	53	32	51	51	1	16	41	32
5	WELLS SHARE 5B1A	125	127	113	115	143	143	172	133	146	125	113	171	133	111	135
6	ROCKY REACH SHARE 5B1A	229	221	200	203	251	249	303	238	255	225	220	326	238	212	244
7	ROCK ISLAND SHARE 5B1A	337	327	300	304	362	359	425	344	365	331	329	456	359	323	355
8	HANAPUM SHARE 5B1A	48	45	40	41	53	52	66	49	54	46	46	73	52	44	51
9	PRIEST SHARE 5B1A	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40
10	TOTAL HYDRO	903	867	764	781	937	1013	1156	1016	1005	970	953	1153	979	878	961
LARGE THERMAL																
11	CENTRALIA SHARE 5B1A	86	86	86	86	86	86	86	86	86	86	86	63	69	86	83
12	COLSTRIP 1&2 SHARE 5B1A	266	266	266	266	266	266	266	266	266	133	223	176	266	266	251
13	COLSTRIP 3 DED SHARE 5B1B	21	21	21	21	21	21	21	21	21	21	8	13	21	21	19
14	COLSTRIP 4 DED SHARE 5B1B	21	21	21	21	21	21	21	21	21	21	8	13	21	21	19
15	TOTAL LARGE THERMAL	393	393	393	393	393	393	393	393	393	260	326	264	376	393	372
OTHER RESOURCES																
16	C.T., WHIDBEY ISLAND 5B1A	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1
17	C.T., WHITEHORN 1 5B1A	0	0	0	0	32	31	31	34	0	0	0	0	0	0	11
18	C.T., WHITEHORN 2 & 3 5B1B	0	0	0	0	85	82	82	91	0	0	0	0	0	0	28
19	SM TH&MISC, SHUFFLETN 5B1A	0	0	0	0	6	6	6	6	0	0	0	0	0	0	2
20	SM TH&MISC, CRYSTL MT 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	NON-UTILITY GEN,DED SHR5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	TOTAL OTHER RESOURCES	0	0	0	0	125	121	121	133	0	0	0	0	0	0	42
EXPORTS																
IMPORTS																
CONTRACTS OUT																
23	RESTORATION 5B1A	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
24	CANADIAN ENTIT (CSPE) 5B1A	-14	-14	-14	-14	-14	-14	-14	-14	-14	-7	-7	-7	-7	-7	-12
25	CANADIAN ENTITL (CAN) 5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-3	-21	-21	-21	-21	-21	-9
26	TOTAL CONTRACTS OUT	-27	-27	-27	-27	-27	-27	-27	-27	-27	-38	-38	-38	-38	-38	-31

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PUGET SOUND POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1998-99 OPERATING YEAR														
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS IN															
27 CSPE PURCHASE 5B1A	38	38	38	38	38	38	38	38	38	18	18	18	18	18	31
28 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 BPA TO PSP&L,WNP1 OBL 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 TOTAL CONTRACTS IN	38	38	38	38	38	38	38	38	38	18	18	18	18	18	31
TOTAL DEDICATED RESOURCES															
31 ACQUIRED PRIOR TO ACT, 5B1A	1266	1230	1127	1144	1340	1415	1558	1421	1368	1169	1242	1372	1294	1210	1309
32 ACQUIRED, POST ACT, 5B1B	41	41	41	41	126	123	123	132	41	41	17	25	41	41	67
33 TOTAL DEDICATED RESOURCES	1307	1271	1168	1185	1466	1538	1681	1553	1409	1210	1259	1397	1335	1251	1376
NONDEDICATED RESOURCES															
34 LG THRM, COLSTRIP 3 ND SHR	144	144	144	144	144	144	144	144	144	144	58	88	144	144	135
35 LG THRM, COLSTRIP 4 ND SHR	144	144	144	144	144	144	144	144	144	144	58	88	144	144	135
37 C.T., FREDRICKSON	0	0	0	0	12	12	12	13	0	0	0	0	0	0	4
38 C.T., FREDONIA	0	0	0	0	17	17	17	18	0	0	0	0	0	0	6
39 EXPORT,PSP&L TO PG&E,S PWR	-141	-141	-141	0	0	0	0	0	0	0	0	0	-141	-141	-47
40 IMPORT,PG&E TO PSP,SEA PWR	0	0	0	0	141	141	141	141	0	0	0	0	0	0	47
41 IMPORT,BC HYDRO TO PSP&L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
42 CONT OUT, PSP&L TO BPA,WP3	0	0	-43	-43	-43	-43	-43	-43	-43	-43	-43	0	-43	0	-32
43 CONT OUT, PSP&L TO BPA, SAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 CONT OUT,PSP&L TO BPA,P XCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 CONT IN, BPA TO PSP&L,WNP3	0	0	0	0	81	82	81	82	40	40	40	0	0	0	34
46 CONT IN, PP&L TO PSP&L,PS2	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
47 CONT IN,BPA TO PSP&L,BK HD	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1
48 CONT IN,BPA TO PSP&L,PS/PXC	0	0	0	150	150	150	150	150	150	150	0	0	0	0	75
49 CONT IN,MPC TO PSP&L, COL 4	77	77	77	77	77	77	77	77	77	77	0	77	77	77	71
50 CONT IN,NO WASCO TO PSP&L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
51 CONT IN,OTHER TO PSP&L,SP P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
52 CONT IN,SNOH TO PSP&L,SP PU	3	3	4	4	5	7	7	6	6	5	5	4	4	3	5
53 CONT IN,WHP TO PSP&L, PS 2	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
54 NON-UTILITY GEN NON-DED SHR	632	632	644	644	644	644	644	644	644	632	632	249	553	632	601
55 TOTAL NONDEDICATED RES	1059	1059	1029	1320	1574	1577	1576	1578	1362	1122	951	706	938	1059	1235
56 TOTAL RESOURCES	2366	2330	2197	2505	3040	3115	3257	3131	2771	2332	2210	2103	2273	2310	2610

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TABLE D-5

PUGET SOUND POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

PUGET SOUND POWER & LIGHT
DEDICATED RESOURCES

HYDRO INDEPENDENTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	SNOQUALMIE, ELCT & NK 5B1A	41	36	29	27	21	52	36	67	51	68	68	64	63	44	47

REGULATED HYDRO

2	WHITE 5B1A	27	21	13	9	7	31	24	47	38	42	45	23	43	27	27
3	UPPER BAKER 5B1A	32	26	17	22	27	32	38	45	21	44	43	0	33	42	29
4	LOWER BAKER 5B1A	32	26	18	25	30	53	41	53	32	51	51	1	16	41	32
5	WELLS SHARE 5B1A	125	127	113	115	143	143	172	133	146	125	113	171	133	111	135
6	ROCKY REACH SHARE 5B1A	229	221	200	203	251	249	303	238	255	225	220	326	238	212	244
7	ROCK ISLAND SHARE 5B1A	291	285	266	269	307	306	343	296	310	287	286	359	306	272	301
8	HANAPUM SHARE 5B1A	48	45	40	41	53	52	66	49	54	46	46	73	52	44	51
9	PRIEST SHARE 5B1A	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40

10	TOTAL HYDRO	857	825	730	746	882	960	1074	968	950	926	910	1056	926	827	906
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LARGE THERMAL

11	CENTRALIA SHARE 5B1A	86	86	86	86	86	86	86	86	86	86	86	56	77	86	83
12	COLSTRIP 1&2 SHARE 5B1A	266	266	266	266	266	266	266	266	266	133	223	176	266	266	251
13	COLSTRIP 3 DED SHARE 5B1B	21	21	21	21	21	21	21	21	21	21	8	13	21	21	19
14	COLSTRIP 4 DED SHARE 5B1B	21	21	21	21	21	21	21	21	21	21	8	13	21	21	19

15	TOTAL LARGE THERMAL	393	393	393	393	393	393	393	393	393	260	326	257	384	393	373
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OTHER RESOURCES

16	C.T., WHIDBEY ISLAND 5B1A	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1
17	C.T., WHITEHORN 1 5B1A	0	0	0	0	32	31	31	34	0	0	0	0	0	0	11
18	C.T., WHITEHORN 2 & 3 5B1B	0	0	0	0	85	82	82	91	0	0	0	0	0	0	28
19	SM TH&MISC, SHUFFLETN 5B1A	0	0	0	0	6	6	6	6	0	0	0	0	0	0	2
20	SM TH&MISC, CRYSTL MT 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	NON-UTILITY GEN,DED SHR5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

22	TOTAL OTHER RESOURCES	0	0	0	0	125	121	121	133	0	0	0	0	0	0	42
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EXPORTS

IMPORTS

CONTRACTS OUT

23	RESTORATION 5B1A	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
24	CANADIAN ENTIT (CSPE) 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	CANADIAN ENTITL (CAN) 5B1A	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37
26	TOTAL CONTRACTS OUT	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47	-47

TABLE D-5 (CONTINUED)

PUGET SOUND POWER & LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	2003- 4 OPERATING YEAR												AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
	AUG 1-15																									
CONTRACTS IN																										
27 CSPE PURCHASE 5B1A	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
28 SUPPLEMENTAL CAPACITY 5B1A	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
29 BPA TO PSP&L,WNP1 OBL 5B1B	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
30 TOTAL CONTRACTS IN	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 DEDICATED RESOURCES																										
31 ACQUIRED PRIOR TO ACT, 5B1A	1162	1130	1035	1051	1227	1304	1418	1315	1255	1098	1172	1241	1222	1132	1207											
32 ACQUIRED, POST ACT, 5B1B	41	41	41	41	126	123	123	132	41	41	17	25	41	41	67											
33 TOTAL DEDICATED RESOURCES	1203	1171	1076	1092	1353	1427	1541	1447	1296	1139	1189	1266	1263	1173	1274											
NONDEDICATED RESOURCES																										
34 LG THRM, COLSTRIP 3 ND SHR	144	144	144	144	144	144	144	144	144	144	58	88	144	144	135											
35 LG THRM, COLSTRIP 4 ND SHR	144	144	144	144	144	144	144	144	144	144	58	88	144	144	135											
37 C.T., FREDRICKSON	0	0	0	0	12	12	12	13	0	0	0	0	0	0	4											
38 C.T., FREDONIA	0	0	0	0	17	17	17	18	0	0	0	0	0	0	6											
39 EXPORT,PSP&L TO PG&E,S PWR	-141	-141	-141	0	0	0	0	0	0	0	0	0	-141	-141	-47											
40 IMPORT,PG&E TO PSP,SEA PWR	0	0	0	0	141	141	141	141	0	0	0	0	0	0	47											
41 IMPORT,BC HYDRO TO PSP&L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2											
42 CONT OUT, PSP&L TO BPA,WP3	0	0	-43	-43	-43	-43	-43	-43	-43	-43	-43	0	-43	0	-32											
43 CONT OUT, PSP&L TO BPA, SAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
44 CONT OUT,PSP&L TO BPA,P XCH	-151	-152	-151	-152	0	0	0	0	0	0	0	0	0	-151	-50											
45 CONT IN, BPA TO PSP&L,WNP3	0	0	0	0	81	81	81	81	40	40	40	0	0	0	34											
46 CONT IN, PP&L TO PSP&L,PS2	120	120	120	120	0	0	0	0	0	0	0	0	0	0	30											
47 CONT IN,BPA TO PSP&L,BK HD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
48 CONT IN,BPA TO PSP&L,PS/PXC	0	0	0	0	152	152	152	152	0	0	0	0	0	0	51											
49 CONT IN,MPC TO PSP&L, COL 4	77	77	77	77	77	77	77	77	77	77	0	77	77	77	71											
50 CONT IN,NO WASCO TO PSP&L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3											
51 CONT IN,OTHER TO PSP&L,SP P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
52 CONT IN,SNOH TO PSP&L,SP PU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
53 CONT IN,WWP TO PSP&L, PS 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
54 NON-UTILITY GEN NON-DED SHR	632	632	644	644	644	644	644	644	644	632	632	249	553	632	601											
55 TOTAL NONDEDICATED RES	829	828	798	938	1373	1373	1373	1375	1010	921	750	506	738	709	988											
56 TOTAL RESOURCES	2032	1999	1874	2030	2726	2800	2914	2822	2306	2060	1939	1772	2001	1882	2262											

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TABLE D-6

WASHINGTON WATER POWER
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
WASHINGTON WATER POWER DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	MEYERS FALLS	5B1A	0	0	0	0	1	0	1	1	1	1	1	1	0	0	
REGULATED HYDRO																	
2	NOXON	5B1A	99	106	125	134	108	156	138	163	150	205	330	297	273	143	171
3	CABINET GORGE	5B1A	70	70	82	87	71	101	92	111	103	147	206	192	176	94	113
4	POST FALLS	5B1A	2	2	6	5	6	6	2	14	15	15	15	13	4	9	
5	UPPER FALLS	5B1A	4	4	9	8	9	9	3	10	10	9	9	10	6	8	
6	MONROE STREET	5B1A	5	4	10	9	10	10	3	13	13	13	13	13	7	10	
7	NINE MILE	5B1A	5	4	10	9	10	10	3	18	19	23	24	18	7	13	
8	LONG LAKE	5B1A	21	21	33	30	33	33	21	66	60	69	72	72	62	26	44
9	LITTLE FALLS	5B1A	8	8	14	13	14	14	9	30	27	31	33	34	26	11	19
10	WELLS SHARE	5B1A	17	15	13	13	17	16	19	14	16	14	13	19	11	13	15
11	CHELAN SHARE	5B1A	33	10	25	24	28	20	33	31	-11	30	17	-6	-13	0	15
12	ROCKY REACH SHARE	5B1A	20	17	15	16	19	19	23	17	18	16	17	24	14	16	18
13	WANAPUM SHARE	5B1A	35	36	31	32	42	40	50	36	39	34	35	38	30	32	37
14	PRIEST RAPIDS SHARE	5B1A	29	30	27	27	34	32	38	30	32	28	29	30	26	27	30
15	TOTAL HYDRO		348	327	400	407	401	467	434	554	492	635	814	762	660	386	502
LARGE THERMAL																	
16	CENTRALIA SHARE	5B1A	185	185	185	185	185	185	185	185	185	185	185	129	152	185	178
17	TOTAL LARGE THERMAL		185	185	185	185	185	185	185	185	185	185	185	129	152	185	178
OTHER RESOURCES																	
18	C.T., NORTHEAST UNITS	5B1A	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
19	NON-UTILITY GEN	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	TOTAL OTHER RESOURCES		54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
EXPORTS																	
21	TOTAL EXPORTS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IMPORTS																	
22	TOTAL IMPORTS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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WASHINGTON WATER POWER
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR															
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
CONTRACTS OUT																
23 CANADIAN ENTIT (CSPE) 5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
24 CANADIAN ENTITL (CAN) 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25 WWP TO PP&L,SANDPOINT 5B1A	-2	-2	-2	-2	-3	-3	-3	-3	-2	-2	-2	-2	-2	-2	-2	
26 TOTAL CONTRACTS OUT	-5	-5	-5	-5	-6	-6	-6	-6	-5	-5	-5	-5	-5	-5	-5	
CONTRACTS IN																
27 BPA TO WWP, SRP CAP SL 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28 CSPE PURCHASE 5B1A	14	14	14	14	14	14	14	14	14	13	13	13	13	13	14	
29 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
30 RESTORATION 5B1A	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
31 MPC TO WWP, PWR SALE 5B1B	0	0	54	73	54	34	0	0	0	0	0	0	0	0		
32 TOTAL CONTRACTS IN	22	22	76	95	76	56	22	22	22	21	21	21	21	21		
TOTAL DEDICATED RESOURCES																
33 ACQUIRED PRIOR TO ACT, 5B1A	604	583	656	663	656	722	689	809	748	890	1069	961	882	641	750	
34 ACQUIRED, POST ACT, 5B1B	0	0	54	73	54	34	0	0	0	0	0	0	0	0		
36 TOTAL DEDICATED RESOURCES	604	583	710	736	710	756	689	809	748	890	1069	961	882	641		
NONDEDICATED RESOURCES																
37 COMB TURB, RATHDRUM 1&2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
38 LG THRM, COLSTRIP 3 SHARE	98	98	98	98	98	98	98	98	98	98	39	60	98	98		
39 LG THRM, COLSTRIP 4 SHARE	98	98	98	98	98	98	98	98	98	98	39	60	98	98		
40 NON-UTLITY GENERATION	66	66	67	67	68	70	70	71	73	74	74	48	49	69		
41 RENEW, KETTLE FALLS	44	44	44	44	44	44	44	44	44	44	44	44	0	44		
42 IMP, PG&E TO WWP,SEA PWR XC	0	0	0	0	43	72	74	72	39	0	0	0	0	25		
43 EXP, WWP TO PG&E,SEA PWR XC	-72	-72	-72	0	0	0	0	0	0	0	0	-8	-72	-72		
44 CONT OUT, WWP TO BPA,WNP3 S	0	0	-36	-36	-36	-36	-36	-36	-36	-36	-36	0	-36	0		
45 CONT OUT, WWP TO PP&L,PS	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50		
46 C. O. WWP TO PND OR, SALE	-10	-10	-10	-10	-10	-10	-10	-11	-10	-11	-10	-10	-10	-10		
47 CONT OUT, WWP TO PSP&L,PS 2	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75		
48 CONT IN, BPA TO WWP,WNP1 OB	80	80	80	80	80	80	80	80	75	58	58	25	18	80		
49 CON IN, BPA TO WWP, WNP3 S	0	0	0	0	65	65	65	65	32	32	32	0	0	27		
50 NONDEDICATED RESOURCES	179	179	144	216	325	356	358	356	288	232	115	94	20	182		
51 TOTAL RESOURCES	783	762	854	952	1035	1112	1047	1165	1036	1122	1184	1055	902	823		

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TABLE D-6

WASHINGTON WATER POWER
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
WASHINGTON WATER POWER DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	MEYERS FALLS	5B1A	0	0	0	0	1	0	1	1	1	1	1	1	0	0	
REGULATED HYDRO																	
2	NOXON	5B1A	164	96	126	132	151	159	145	140	117	192	298	297	273	172	174
3	CABINET GORGE	5B1A	109	64	83	85	97	102	96	96	81	139	190	192	176	111	114
4	POST FALLS	5B1A	2	2	6	5	6	2	14	15	15	15	15	13	4	9	
5	UPPER FALLS	5B1A	4	3	9	8	9	3	10	10	9	9	10	10	6	8	
6	MONROE STREET	5B1A	5	4	10	9	10	3	13	13	13	13	13	13	7	10	
7	NINE MILE	5B1A	5	4	10	9	10	3	18	19	23	24	23	18	7	13	
8	LONG LAKE	5B1A	21	21	33	30	33	21	66	60	69	72	72	62	26	44	
9	LITTLE FALLS	5B1A	8	8	14	13	14	9	30	28	31	33	34	26	11	19	
10	WELLS SHARE	5B1A	14	14	13	13	16	19	15	17	14	13	19	15	12	15	
11	CHELAN SHARE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	ROCKY REACH SHARE	5B1A	17	16	15	15	19	23	18	19	17	16	24	18	16	18	
13	HANAPUM SHARE	5B1A	36	34	30	31	40	50	38	41	35	35	55	40	34	39	
14	PRIEST RAPIDS SHARE	5B1A	25	29	26	27	32	39	31	33	29	29	30	32	26	30	
15	TOTAL HYDRO		410	295	375	377	437	413	490	454	587	748	785	697	432	494	
LARGE THERMAL																	
16	CENTRALIA SHARE	5B1A	185	185	185	185	185	185	185	185	185	185	136	147	185	178	
17	TOTAL LARGE THERMAL		185	185	185	185	185	185	185	185	185	185	136	147	185	178	
OTHER RESOURCES																	
18	C.T., NORTHEAST UNITS	5B1A	54	54	54	54	54	54	54	54	54	54	54	54	54	54	
19	NON-UTILITY GEN	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	TOTAL OTHER RESOURCES		54	54	54	54	54	54	54	54	54	54	54	54	54	54	
EXPORTS																	
21	TOTAL EXPORTS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IMPORTS																	
22	TOTAL IMPORTS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

WASHINGTON WATER POWER
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS OUT															
23 CANADIAN ENTIT (CSPE) 5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	-1
24 CANADIAN ENTITL (CAN) 5B1A	0	0	0	0	0	0	0	0	0	-4	-4	-4	-4	-4	-1
25 WWP TO PP&L,SANDPOINT 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 TOTAL CONTRACTS OUT	-1	-1	-1	-1	-1	-1	-1	-1	-1	-4	-4	-4	-4	-4	-2
CONTRACTS IN															
27 BPA TO WWP, SRP CAP SL 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 CSPE PURCHASE 5B1A	11	11	11	11	11	11	11	11	11	5	5	5	5	5	9
29 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 RESTORATION 5B1A	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
31 MPC TO WWP, PWR SALE 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 TOTAL CONTRACTS IN	19	19	19	19	19	19	19	19	19	13	13	13	13	13	17
TOTAL DEDICATED RESOURCES															
33 ACQUIRED PRIOR TO ACT, 5B1A	667	552	632	634	694	708	670	747	711	835	996	984	907	680	741
34 ACQUIRED, POST ACT, 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 TOTAL DEDICATED RESOURCES	667	552	632	634	694	708	670	747	711	835	996	984	907	680	741
NONDEDICATED RESOURCES															
37 COMB TURB, RATHDRUM 1&2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 LG THRM, COLSTRIP 3 SHARE	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
39 LG THRM, COLSTRIP 4 SHARE	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
40 NON-UTLITY GENERATION	66	66	67	67	68	70	70	71	73	74	74	48	49	69	66
41 RENEW, KETTLE FALLS	43	43	43	43	43	43	43	43	43	43	43	43	0	43	39
42 IMP, PG&E TO WWP,SEA PWR XC	0	0	0	0	43	72	74	72	39	0	0	0	0	0	25
43 EXP, WWP TO PG&E,SEA PWR XC	-72	-72	-72	0	0	0	0	0	0	0	0	-8	-72	-72	-25
44 CONT OUT, WWP TO BPA,WNP3 S	0	0	-43	-43	-43	-43	-43	-43	-43	-43	-43	0	-43	0	-32
45 CONT OUT, WWP TO PP&L,PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 C. O. WWP TO PND OR, SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 CONT OUT, WWP TO PSP&L,PS 2	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75
48 CONT IN, BPA TO WWP,WNP1 OB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 CONT IN, BPA TO WWP, WNP3 S	0	0	0	0	78	78	78	78	39	39	39	0	0	0	32
50 NONDEDICATED RESOURCES	158	158	116	188	310	341	343	342	272	234	116	128	55	161	216
51 TOTAL RESOURCES	825	710	748	822	1004	1049	1013	1089	983	1069	1112	1112	962	841	957

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WASHINGTON WATER POWER
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
WASHINGTON WATER POWER DEDICATED RESOURCES		-----														
HYDRO INDEPENDENTS																
1	MEYERS FALLS 5B1A	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0
REGULATED HYDRO																
2	NOXON 5B1A	164	96	126	132	151	159	145	140	117	192	298	297	273	172	174
3	CABINET GORGE 5B1A	109	64	83	85	97	102	96	96	81	139	190	192	176	111	114
4	POST FALLS 5B1A	2	2	6	5	6	6	2	14	15	15	15	15	13	4	9
5	UPPER FALLS 5B1A	4	3	9	8	9	9	3	10	10	9	9	10	10	6	8
6	MONROE STREET 5B1A	5	4	10	9	10	10	3	13	13	13	13	13	13	7	10
7	NINE MILE 5B1A	5	4	10	9	10	10	3	18	19	23	24	23	18	7	13
8	LONG LAKE 5B1A	21	21	33	30	33	33	21	66	60	69	72	72	62	26	44
9	LITTLE FALLS 5B1A	8	8	14	13	14	14	9	30	28	31	33	34	26	11	19
10	WELLS SHARE 5B1A	14	14	13	13	16	16	19	15	17	14	13	19	15	12	15
11	CHELAN SHARE 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	ROCKY REACH SHARE 5B1A	17	16	15	15	19	19	23	18	19	17	16	24	18	16	18
13	HANAPUM SHARE 5B1A	36	34	30	31	40	40	50	38	41	35	35	55	40	34	39
14	PRIEST RAPIDS SHARE 5B1A	25	29	26	27	32	32	39	31	33	29	29	30	32	26	30
15	TOTAL HYDRO	410	295	375	377	437	451	413	490	454	587	748	785	697	432	494
LARGE THERMAL																
16	CENTRALIA SHARE 5B1A	185	185	185	185	185	185	185	185	185	185	185	119	166	185	178
17	TOTAL LARGE THERMAL	185	185	185	185	185	185	185	185	185	185	185	119	166	185	178
OTHER RESOURCES																
18	C.T., NORTHEAST UNITS 5B1A	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
19	NON-UTILITY GEN 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	TOTAL OTHER RESOURCES	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
EXPORTS																
21	TOTAL EXPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IMPORTS																
22	TOTAL IMPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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TABLE D-6 (CONTINUED)

WASHINGTON WATER POWER
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	2003- 4 OPERATING YEAR														
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS OUT															
23 CANADIAN ENTIT (CSPE) 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 CANADIAN ENTITL (CAN) 5B1A	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
25 WWP TO PP&L,SANDPOINT 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 TOTAL CONTRACTS OUT	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
CONTRACTS IN															
27 BPA TO WWP, SRP CAP SL 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 CSPE PURCHASE 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 RESTORATION 5B1A	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
31 MPC TO WWP, PWR SALE 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 TOTAL CONTRACTS IN	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
TOTAL DEDICATED RESOURCES															
33 ACQUIRED PRIOR TO ACT, 5B1A	652	537	617	619	679	693	655	732	696	829	990	961	920	674	729
34 ACQUIRED, POST ACT, 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 TOTAL DEDICATED RESOURCES	652	537	617	619	679	693	655	732	696	829	990	961	920	674	729
NONDEDICATED RESOURCES															
37 COMB TURB, RATHDRUM 1&2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 LG THRM, COLSTRIP 3 SHARE	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
39 LG THRM, COLSTRIP 4 SHARE	98	98	98	98	98	98	98	98	98	98	39	60	98	98	92
40 NON-UTLITY GENERATION	7	7	8	8	9	11	11	12	14	15	15	13	14	6	11
41 RENEW, KETTLE FALLS	44	44	44	44	44	44	44	44	44	44	44	44	0	44	40
42 IMP, PG&E TO WWP,SEA PWR XC	0	0	0	0	43	72	74	72	39	0	0	0	0	0	25
43 EXP, WWP TO PG&E,SEA PWR XC	-72	-72	-72	0	0	0	0	0	0	0	0	0	-8	-72	-25
44 CONT OUT, WWP TO BPA,WNP3 S	0	0	-43	-43	-43	-43	-43	-43	-43	-43	-43	0	-43	0	-32
45 CONT OUT, WWP TO PP&L,PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 C. O. WWP TO PND OR, SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 CONT OUT, WWP TO PSP&L,PS 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 CONT IN, BPA TO WWP,WNP1 OB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 CONT IN, BPA TO WWP, WNP3 S	0	0	0	0	78	78	78	78	39	39	39	0	0	0	32
50 NONDEDICATED RESOURCES	175	175	133	205	327	358	360	359	289	251	133	169	95	174	236
51 TOTAL RESOURCES	827	712	750	824	1006	1051	1015	1091	985	1080	1123	1130	1015	848	965

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TABLE D-7

CHELAN COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
CHELAN COUNTY PUD #1 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
REGULATED HYDRO																	
1	ROCKY REACH SHARE	5B1A	53	45	40	41	51	49	59	45	48	43	44	64	36	43	47
2	ROCKY REACH SHARE	5B1B	52	44	40	40	50	48	58	45	47	42	43	63	36	42	47
3	ROCK ISLAND SHARE	5B1A	30	30	29	30	30	30	30	30	30	30	29	28	30	30	30
4	ROCK ISLAND SHARE	5B1B	50	50	49	49	50	51	49	50	50	49	50	48	47	55	50
5	CHELAN SHR, PROJ+CONT	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	16	1
6	CHELAN CONTRACT	5B1B	18	17	17	20	21	21	23	21	20	21	11	19	21	19	19
7	TOTAL HYDRO		203	186	175	179	204	200	217	193	197	184	187	214	166	206	194
LARGE THERMAL																	
OTHER RESOURCES																	
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
8	CHELAN TO DOUG,C/N XCH	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	CANADIAN ENTIT (CSPE)	5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
10	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	TOTAL CONTRACTS OUT		-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
CONTRACTS IN																	
13	CSPE PURCHASE	5B1A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
14	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	DOUG TO CHELAN,C/N XCH	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	COLOCK TO CHEL,PK SALE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	TOTAL CONTRACTS IN		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TOTAL DEDICATED RESOURCES																	
18	ACQUIRED PRIOR TO ACT, 5B1A		84	76	70	71	83	81	90	76	79	73	75	94	66	89	79
19	ACQUIRED, POST ACT, 5B1B		120	111	105	109	122	120	128	117	119	111	114	122	102	118	116
20	TOTAL DEDICATED RESOURCES		204	187	176	180	205	201	218	194	198	185	186	215	167	207	195

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CHELAN COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
21 M HYDRO, ROCK ISLAND SHARE	-70	-70	-68	-68	-71	-71	-69	-70	-71	-69	-69	-68	-65	-74	-70
22 CONT OUT, CHL TO PGE,C/N X	-8	-8	-1	0	0	0	0	0	0	0	0	0	-8	-7	-2
23 CONT IN, PGE TO CHL,C/N X	0	0	0	0	11	11	10	11	0	0	0	0	0	0	4
24 TOTAL NONDEDICATED RES	-78	-78	-69	-68	-60	-60	-59	-59	-71	-69	-69	-68	-73	-81	-68
25 TOTAL RESOURCES	125	109	107	112	145	141	159	135	127	116	119	148	94	126	127

TABLE D-7

CHELAN COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
CHELAN COUNTY PUD #1 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
REGULATED HYDRO																	
1	ROCKY REACH SHARE	5B1A	45	43	39	40	49	49	59	47	50	44	43	64	47	42	48
2	ROCKY REACH SHARE	5B1B	44	43	38	39	48	48	58	46	49	43	42	63	46	41	47
3	ROCK ISLAND SHARE	5B1A	30	30	29	29	30	30	30	31	30	30	29	30	30	30	30
4	ROCK ISLAND SHARE	5B1B	70	69	67	68	71	71	69	70	71	69	69	67	71	74	70
5	CHELAN SHR, PROJ+CONT	5B1A	22	12	18	19	21	17	23	23	4	22	16	2	3	16	15
6	CHELAN CONTRACT	5B1B	29	15	24	25	28	24	31	31	6	28	22	3	3	21	20
7	TOTAL HYDRO		240	212	215	220	248	239	270	247	211	237	223	228	200	223	230
LARGE THERMAL																	
OTHER RESOURCES																	
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
8	CHELAN TO DOUG,C/N XCH	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	CANADIAN ENTIT (CSPE)	5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	-2
10	CANADIAN ENTITL (CAN)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-4	-4	-4	-4	-4	-4	-2
11	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	TOTAL CONTRACTS OUT		-4	-4	-4	-4	-4	-4	-4	-4	-5	-5	-5	-5	-5	-5	-4
CONTRACTS IN																	
13	CSPE PURCHASE	5B1A	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2
14	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	DOUG TO CHELAN,C/N XCH	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	COLOCK TO CHEL,PK SALE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	TOTAL CONTRACTS IN		3	3	3	3	3	3	3	3	2	2	2	2	2	2	3
TOTAL DEDICATED RESOURCES																	
18	ACQUIRED PRIOR TO ACT,	5B1A	94	83	84	86	99	95	110	98	83	88	82	88	73	80	89
19	ACQUIRED, POST ACT,	5B1B	143	127	130	132	147	142	158	147	126	141	134	133	120	136	137
20	TOTAL DEDICATED RESOURCES		239	211	214	219	247	238	269	246	210	234	220	225	197	220	228

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CHELAN COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
21 M HYDRO, ROCK ISLAND SHARE	-90	-89	-86	-87	-91	-91	-88	-90	-92	-89	-89	-87	-91	-94	-90
22 CONT OUT, CHL TO PGE,C/N X	-8	-7	-1	0	0	0	0	0	0	0	0	0	-8	-8	-2
23 CONT IN, PGE TO CHL,C/N X	0	0	0	0	10	11	10	11	0	0	0	0	0	0	3
24 TOTAL NONDEDICATED RES	-98	-96	-87	-87	-81	-80	-78	-79	-92	-89	-89	-87	-99	-102	-88
25 TOTAL RESOURCES	141	115	128	132	165	158	191	166	118	144	131	138	98	119	140

TABLE D-7

CHELAN COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
CHELAN COUNTY PUD #1 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
REGULATED HYDRO																	
1	ROCKY REACH SHARE	5B1A	45	43	39	40	49	49	59	47	50	44	43	64	47	42	48
2	ROCKY REACH SHARE	5B1B	44	43	38	39	48	48	58	46	49	43	42	63	46	41	47
3	ROCK ISLAND SHARE	5B1A	76	72	63	64	85	84	112	78	86	74	73	126	84	81	84
4	ROCK ISLAND SHARE	5B1B	76	76	73	74	77	75	77	78	76	76	73	77	76	76	76
5	CHELAN SHR, PROJ+CONT	5B1A	22	12	18	19	21	17	23	23	4	22	16	2	3	16	15
6	CHELAN CONTRACT	5B1B	29	15	24	25	28	24	31	31	6	28	22	3	3	21	20
7	TOTAL HYDRO		292	261	256	261	309	299	359	301	273	287	272	331	260	276	290
LARGE THERMAL																	
OTHER RESOURCES																	
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
8	CHELAN TO DOUG,C/N XCH	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	CANADIAN ENTITL (CAN)	5B1A	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
11	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	TOTAL CONTRACTS OUT		-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
CONTRACTS IN																	
13	CSPE PURCHASE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	DOUG TO CHELAN,C/N XCH	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	COLOCK TO CHEL,PK SALE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	TOTAL CONTRACTS IN		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL DEDICATED RESOURCES																	
18	ACQUIRED PRIOR TO ACT,	5B1A	131	116	109	112	144	139	183	137	129	128	121	181	122	127	136
19	ACQUIRED, POST ACT,	5B1B	150	134	136	138	154	149	164	153	133	148	140	139	127	138	143
20	TOTAL DEDICATED RESOURCES		287	256	251	256	304	294	354	296	268	282	267	326	255	271	285

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TABLE D-7 (CONTINUED)

CHELAN COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
21 M HYDRO, ROCK ISLAND SHARE	-96	-96	-93	-93	-97	-98	-95	-97	-99	-95	-96	-93	-98	-95	-96
22 CONT OUT, CHL TO PGE,C/N X	-8	-7	-1	0	0	0	0	0	0	0	0	0	-8	-8	-2
23 CONT IN, PGE TO CHL,C/N X	0	0	0	0	10	11	11	10	0	0	0	0	0	0	3
24 TOTAL NONDEDICATED RES	-104	-103	-94	-93	-87	-87	-84	-87	-99	-95	-96	-93	-106	-103	-94
25 TOTAL RESOURCES	183	153	158	163	216	207	270	209	169	186	172	233	149	168	191

TABLE D-8

COWLITZ COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1994-95 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
COWLITZ COUNTY PUD #1 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
REGULATED HYDRO																	
1	WANAPUM SHARE	5B1A	12	12	10	11	14	13	17	12	13	11	12	12	10	10	12
2	PRIEST RAPIDS SHARE	5B1A	9	10	9	9	11	11	13	10	10	9	10	10	8	9	10
3	SWIFT 1 SHARE	5B1B	7	6	9	13	17	15	16	23	17	24	23	0	12	6	13
4	SWIFT 2 SHARE	5B1B	2	1	3	4	6	6	6	9	6	8	8	0	3	2	5
5	TOTAL HYDRO		30	29	31	37	48	45	52	54	46	52	53	22	33	27	40
LARGE THERMAL																	
OTHER RESOURCES																	
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
6	CANADIAN ENTIT (CSPE)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
7	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	RESTORATION	5B1A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9	TOTAL CONTRACTS OUT		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CONTRACTS IN																	
10	CSPE PURCHASE	5B1A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
11	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	TOTAL CONTRACTS IN		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
TOTAL DEDICATED RESOURCES																	
13	ACQUIRED PRIOR TO ACT,	5B1A	30	31	28	29	34	33	39	31	32	29	31	31	27	28	31
14	ACQUIRED, POST ACT,	5B1B	9	7	12	17	23	21	22	32	23	32	31	0	15	8	18
15	TOTAL DEDICATED RESOURCES		39	38	40	46	57	54	61	63	55	61	62	31	42	36	49
NONDEDICATED RESOURCES																	
16	TOTAL NONDEDICATED RES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	TOTAL RESOURCES		39	38	40	46	57	54	61	63	55	61	62	31	42	36	49

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COWLITZ COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

COWLITZ COUNTY PUD #1
DEDICATED RESOURCES

HYDRO INDEPENDENTS

REGULATED HYDRO

1	WANAPUM SHARE	5B1A	12	11	10	10	13	13	16	12	13	11	11	18	13	11	13
2	PRIEST RAPIDS SHARE	5B1A	8	9	9	9	11	10	13	10	11	10	10	10	11	9	10
3	SWIFT 1 SHARE	5B1B	7	6	9	13	17	15	16	23	17	24	23	0	12	6	13
4	SWIFT 2 SHARE	5B1B	2	1	3	4	6	6	6	9	6	8	8	0	3	2	5
5	TOTAL HYDRO		29	27	31	36	47	44	51	54	47	53	52	28	39	28	40

LARGE THERMAL

OTHER RESOURCES

EXPORTS

IMPORTS

CONTRACTS OUT

6	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	RESTORATION	5B1A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9	TOTAL CONTRACTS OUT		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

CONTRACTS IN

10	CSPE PURCHASE	5B1A	5	5	5	5	5	5	5	5	5	3	3	3	3	3	4
11	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	TOTAL CONTRACTS IN		5	5	5	5	5	5	5	5	5	3	3	3	3	3	4

TOTAL DEDICATED RESOURCES

13	ACQUIRED PRIOR TO ACT,	5B1A	28	28	27	27	32	31	37	30	32	27	27	34	30	26	30
14	ACQUIRED, POST ACT,	5B1B	9	7	12	17	23	21	22	32	23	32	31	0	15	8	18
15	TOTAL DEDICATED RESOURCES		37	35	39	44	55	52	59	62	55	59	58	34	45	34	48

NONDEDICATED RESOURCES

16	TOTAL NONDEDICATED RES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	TOTAL RESOURCES		37	35	39	44	55	52	59	62	55	59	58	34	45	34	48

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TABLE D-8

COWLITZ COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
COWLITZ COUNTY PUD #1 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
REGULATED HYDRO																	
1	WANAPUM SHARE	5B1A	12	11	10	10	13	13	16	12	13	11	11	18	13	11	13
2	PRIEST RAPIDS SHARE	5B1A	8	9	9	9	11	10	13	10	11	10	10	10	11	9	10
3	SWIFT 1 SHARE	5B1B	7	6	9	13	17	15	16	23	17	24	23	0	12	6	13
4	SWIFT 2 SHARE	5B1B	2	1	3	4	6	6	6	9	6	8	8	0	3	2	5
5	TOTAL HYDRO		29	27	31	36	47	44	51	54	47	53	52	28	39	28	40
LARGE THERMAL																	
OTHER RESOURCES																	
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
6	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	CANADIAN ENTITL (CAN)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
8	RESTORATION	5B1A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9	TOTAL CONTRACTS OUT		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CONTRACTS IN																	
10	CSPE PURCHASE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	TOTAL CONTRACTS IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES																	
13	ACQUIRED PRIOR TO ACT,	5B1A	21	21	20	20	25	24	30	23	25	22	22	29	25	21	24
14	ACQUIRED, POST ACT,	5B1B	9	7	12	17	23	22	32	23	32	31	0	15	8	18	
15	TOTAL DEDICATED RESOURCES		31	29	33	38	49	46	53	56	49	55	54	30	41	30	42
NONDEDICATED RESOURCES																	
16	TOTAL NONDEDICATED RES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	TOTAL RESOURCES		31	29	33	38	49	46	53	56	49	55	54	30	41	30	42

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DOUGLAS COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

DOUGLAS COUNTY PUD #1
DEDICATED RESOURCES

HYDRO INDEPENDENTS

REGULATED HYDRO

- 1 WELLS SHARE
- 2 WELLS SHARE
- 3 ROCKY REACH SHARE
- 4 TOTAL HYDRO

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
5B1A	18	16	23	23	30	29	34	26	28	24	23	34	20	13	25	
5B1B	80	71	54	55	69	66	78	59	64	56	53	79	47	62	64	
5B1A	19	16	15	15	18	18	21	16	17	15	16	23	13	16	17	
		117	103	92	93	117	113	133	101	109	95	92	136	80	91	106

LARGE THERMAL

OTHER RESOURCES

EXPORTS

IMPORTS

CONTRACTS OUT

- 5 CANADIAN ENTIT (CSPE)
- 6 CANADIAN ENTITL (CAN)
- 7 RESTORATION
- 8 DOUG TO CHEL,C/N XCHG
- 9 TOTAL CONTRACTS OUT

5B1A	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6

CONTRACTS IN

- 10 CSPE PURCHASE
- 11 SUPPLEMENTAL CAPACITY
- 12 CHEL TO DOUG,C/N XCHG
- 13 TOTAL CONTRACTS IN

5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TOTAL DEDICATED RESOURCES

- 14 ACQUIRED PRIOR TO ACT,
- 15 ACQUIRED, POST ACT,
- 16 TOTAL DEDICATED RESOURCES

5B1A	32	27	33	33	43	42	50	37	40	34	34	52	28	24	37	
5B1B	80	71	54	55	69	66	78	59	64	56	53	79	47	62	64	
	112	98	87	88	112	108	128	96	104	90	87	131	75	86	101	

NONDEDICATED RESOURCES

- 17 TOTAL NONDEDICATED RES
- 18 TOTAL RESOURCES

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	112	98	87	88	112	108	128	96	104	90	87	131	75	86	101	

TABLE D-9

DOUGLAS COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
DOUGLAS COUNTY PUD #1 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
REGULATED HYDRO																	
1	WELLS SHARE	5B1A	15	15	22	23	28	28	34	26	29	25	22	34	26	13	25
2	WELLS SHARE	5B1B	68	69	53	53	66	66	79	62	67	58	52	79	61	60	64
3	ROCKY REACH SHARE	5B1A	16	16	14	14	18	18	21	17	18	16	16	23	17	15	17
4	TOTAL HYDRO		99	100	89	90	112	112	134	105	114	99	90	136	104	88	106
LARGE THERMAL																	
OTHER RESOURCES																	
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
5	CANADIAN ENTIT (CSPE)	5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	-2
6	CANADIAN ENTITL (CAN)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-5	-5	-5	-5	-5	-5	-2
7	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	DOUG TO CHEL,C/N XCHG	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9	TOTAL CONTRACTS OUT		-5	-5	-5	-5	-5	-5	-5	-5	-7	-7	-7	-7	-7	-7	-6
CONTRACTS IN																	
10	CSPE PURCHASE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	CHEL TO DOUG,C/N XCHG	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	TOTAL CONTRACTS IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES																	
14	ACQUIRED PRIOR TO ACT,	5B1A	25	25	30	31	40	40	49	37	41	29	26	45	31	16	35
15	ACQUIRED, POST ACT,	5B1B	68	69	53	53	66	66	79	62	67	58	52	79	61	60	64
16	TOTAL DEDICATED RESOURCES		94	95	84	85	107	107	129	100	109	92	83	129	97	81	101
NONDEDICATED RESOURCES																	
17	TOTAL NONDEDICATED RES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	TOTAL RESOURCES		94	95	84	85	107	107	129	100	109	92	83	129	97	81	101

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DOUGLAS COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

DOUGLAS COUNTY PUD #1
DEDICATED RESOURCES

HYDRO INDEPENDENTS

REGULATED HYDRO

- 1 WELLS SHARE
- 2 WELLS SHARE
- 3 ROCKY REACH SHARE

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
5B1A	15	15	22	23	28	28	34	26	29	25	22	34	26	13	25
5B1B	68	69	53	53	66	66	79	62	67	58	52	79	61	60	64
5B1A	16	16	14	14	18	18	21	17	18	16	16	23	17	15	17
4 TOTAL HYDRO	99	100	89	90	112	112	134	105	114	99	90	136	104	88	106

LARGE THERMAL

OTHER RESOURCES

EXPORTS

IMPORTS

CONTRACTS OUT

- 5 CANADIAN ENTIT (CSPE)
- 6 CANADIAN ENTITL (CAN)
- 7 RESTORATION
- 8 DOUG TO CHEL,C/N XCHG

5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5B1A	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9 TOTAL CONTRACTS OUT	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9

CONTRACTS IN

- 10 CSPE PURCHASE
- 11 SUPPLEMENTAL CAPACITY
- 12 CHEL TO DOUG,C/N XCHG

5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TOTAL CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL DEDICATED RESOURCES

- 14 ACQUIRED PRIOR TO ACT, 5B1A
- 15 ACQUIRED, POST ACT, 5B1B

5B1A	14	14	19	20	29	29	38	26	30	24	21	40	26	11	26
5B1B	68	69	53	53	66	66	79	62	67	58	52	79	61	60	64
16 TOTAL DEDICATED RESOURCES	90	91	80	81	103	103	125	96	105	90	81	127	95	79	97

NONDEDICATED RESOURCES

- 17 TOTAL NONDEDICATED RES

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 TOTAL RESOURCES	90	91	80	81	103	103	125	96	105	90	81	127	95	79	97

TABLE D-10

EUGENE WATER & ELECTRIC BOARD
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR		1994-95 OPERATING YEAR															
ENERGY IN AVERAGE MEGAWATTS		AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL		
		1-15	16-31								1-15	16-30					
EUGENE WATER & ELECTRIC BOARD DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	LEABURG	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	WATERVILLE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULATED HYDRO																	
3	CARMEN-SMITH	5B1A	17	16	16	14	13	17	17	17	17	13	15	17	16	16	16
4	TRAIL BRIDGE	5B1A	4	4	4	4	3	4	4	4	4	4	4	4	3	4	4
5	WANAPUM DED SHARE	5B1A	8	8	7	7	10	9	12	8	9	7	8	7	7	8	8
6	PRIEST RAPIDS DED SHR	5B1A	7	7	7	6	7	7	9	7	7	7	7	6	7	7	7
7	TOTAL HYDRO		36	35	34	31	33	38	42	36	38	35	32	34	33	33	35
LARGE THERMAL																	
OTHER RESOURCES																	
8	NON-UTILITY GENERATION	5B1B	0	0	0	5	5	4	0	1	2	9	9	37	37	11	9
9	TOTAL OTHER RESOURCES		0	0	0	5	5	4	0	1	2	9	9	37	37	11	9
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
10	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	TOTAL CONTRACTS OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONTRACTS IN																	
14	CSPE PURCHASE	5B1A	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
15	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	TOTAL CONTRACTS IN		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
TOTAL DEDICATED RESOURCES																	
17	ACQUIRED PRIOR TO ACT,	5B1A	51	50	49	46	48	53	57	51	53	50	47	49	48	48	50
18	ACQUIRED, POST ACT,	5B1B	0	0	0	5	5	4	0	1	2	9	9	37	37	11	9
19	TOTAL DEDICATED RESOURCES		51	50	49	51	53	57	57	52	55	59	56	86	85	59	59

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TABLE D-10 (CONTINUED)

EUGENE WATER & ELECTRIC BOARD
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
NONDEDICATED RESOURCES																
20 M HYDRO, WANAPUM SHARE	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2
21 M HYDRO, PRIEST RAPIDS SHARE	1	1	1	1	2	2	2	1	2	1	1	1	1	1	1	1
22 COGEN, WEYCO ENERGY CTR	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14	14
23 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 TOTAL NONDEDICATED RES	18	18	18	18	19	11	19	18	18	18	18	18	18	11	17	17
25 TOTAL RESOURCES	69	68	67	69	72	68	76	70	73	77	74	104	103	70	76	76

TABLE D-10

EUGENE WATER & ELECTRIC BOARD
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		1998-99 OPERATING YEAR															
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
EUGENE WATER & ELECTRIC BOARD DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	LEABURG	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	WATERVILLE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULATED HYDRO																	
3	CARMEN-SMITH	5B1A	17	16	16	14	13	17	17	17	17	17	13	15	17	16	16
4	TRAIL BRIDGE	5B1A	4	4	4	4	3	4	4	4	4	4	4	4	4	3	4
5	HANAPUM DED SHARE	5B1A	8	8	7	7	9	9	12	9	9	8	8	12	9	8	9
6	PRIEST RAPIDS DED SHR	5B1A	6	7	6	6	7	7	9	7	7	7	7	7	7	6	7
7	TOTAL HYDRO		35	35	32	31	33	38	42	38	38	36	32	38	38	33	36
LARGE THERMAL																	
OTHER RESOURCES																	
8	NON-UTILITY GENERATION	5B1B	0	0	0	5	6	4	0	1	2	9	9	37	37	11	9
9	TOTAL OTHER RESOURCES		0	0	0	5	6	4	0	1	2	9	9	37	37	11	9
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
10	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	TOTAL CONTRACTS OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONTRACTS IN																	
14	CSPE PURCHASE	5B1A	12	12	12	12	12	12	12	12	12	6	6	6	6	6	10
15	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	TOTAL CONTRACTS IN		12	12	12	12	12	12	12	12	12	6	6	6	6	6	10
TOTAL DEDICATED RESOURCES																	
17	ACQUIRED PRIOR TO ACT,	5B1A	47	47	44	43	45	50	54	50	50	42	38	44	44	39	46
18	ACQUIRED, POST ACT,	5B1B	0	0	0	5	6	4	0	1	2	9	9	37	37	11	9
19	TOTAL DEDICATED RESOURCES		47	47	44	48	51	54	54	51	52	51	47	81	81	50	55

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TABLE D-10 (CONTINUED)

EUGENE WATER & ELECTRIC BOARD
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
20 M HYDRO, WANAPUM SHARE	2	2	1	2	2	2	2	2	2	2	2	3	2	2	2
21 M HYDRO, PRIEST RAPIDS SHARE	1	1	1	1	2	2	2	2	2	1	1	1	2	1	1
22 COGEN, WEYCO ENERGY CTR	15	15	15	15	15	8	15	15	15	15	15	15	15	15	14
23 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 TOTAL NONDEDICATED RES	18	18	18	18	18	11	19	18	18	18	18	19	18	11	17
25 TOTAL RESOURCES	65	65	62	66	69	65	73	69	70	69	65	100	99	61	72

EUGENE WATER & ELECTRIC BOARD
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		2003- 4 OPERATING YEAR														
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
EUGENE WATER & ELECTRIC BOARD DEDICATED RESOURCES																
HYDRO INDEPENDENTS																
1	LEABURG	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	WATERVILLE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULATED HYDRO																
3	CARMEN-SMITH	5B1A	17	16	16	14	13	17	17	17	17	17	13	15	17	16
4	TRAIL BRIDGE	5B1A	4	4	4	4	3	4	4	4	4	4	4	4	4	3
5	HANAPUM DED SHARE	5B1A	8	8	7	7	9	9	12	9	9	8	8	12	9	8
6	PRIEST RAPIDS DED SHR	5B1A	6	7	6	6	7	7	9	7	7	7	7	7	7	6
7	TOTAL HYDRO		35	35	32	31	33	38	42	38	38	36	32	38	38	33
LARGE THERMAL																
OTHER RESOURCES																
8	NON-UTILITY GENERATION	5B1B	0	0	0	5	6	4	0	1	2	9	9	37	37	11
9	TOTAL OTHER RESOURCES		0	0	0	5	6	4	0	1	2	9	9	37	37	11
EXPORTS																
IMPORTS																
CONTRACTS OUT																
10	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	CANADIAN ENTITL (CAN)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
12	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	TOTAL CONTRACTS OUT		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
CONTRACTS IN																
14	CSPE PURCHASE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	TOTAL CONTRACTS IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES																
17	ACQUIRED PRIOR TO ACT,	5B1A	34	34	31	30	32	37	41	37	37	35	31	37	37	32
18	ACQUIRED, POST ACT,	5B1B	0	0	0	5	6	4	0	1	2	9	9	37	37	11
19	TOTAL DEDICATED RESOURCES		34	34	31	35	38	41	41	38	39	44	40	74	74	43

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TABLE D-10 (CONTINUED)

EUGENE WATER & ELECTRIC BOARD
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
NONDEDICATED RESOURCES																
20 M HYDRO, WANAPUM SHARE	2	2	1	2	2	2	2	2	2	2	2	3	2	2	2	2
21 M HYDRO, PRIEST RAPIDS SHARE	1	1	1	1	2	2	2	2	2	1	1	1	2	1	1	1
22 COGEN, WEYCO ENERGY CTR	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14	14
23 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 TOTAL NONDEDICATED RES	18	18	18	18	18	11	19	18	18	18	18	19	18	11	17	17
25 TOTAL RESOURCES	52	52	49	53	56	52	60	56	57	62	58	93	92	54	61	61

GRANT COUNTY PUD #2
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		1994-95 OPERATING YEAR												JUN		JUL	
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY				
GRANT COUNTY PUD #2 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
REGULATED HYDRO																	
1	HANAPUM SHARE	5B1A	73	75	71	72	95	90	111	81	87	76	79	84	67	66	81
2	HANAPUM SHARE	5B1B	68	70	55	56	74	71	88	64	69	59	62	66	52	62	66
3	PRIEST RAPIDS SHARE	5B1A	80	83	86	88	110	105	124	96	102	91	95	95	82	74	95
4	PRIEST RAPIDS DED SHR	5B1B	75	78	58	59	73	70	83	64	69	61	64	64	55	70	67
5	TOTAL HYDRO		296	306	270	275	352	336	406	305	327	287	300	309	256	272	309
LARGE THERMAL																	
OTHER RESOURCES																	
6	NON-UTILITY GENERATION	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	TOTAL OTHER RESOURCES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
8	CANADIAN ENTIT (CSPE)	5B1A	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-6	-6	-6	-6	-7
9	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	RESTORATION	5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
11	CNT OUT, GRT TO PP&L, PS	5B1B	-13	-13	-10	-8	-7	-8	-9	-7	-8	-10	-10	-13	-14	-14	-10
12	TOTAL CONTRACTS OUT		-23	-23	-20	-18	-17	-18	-19	-17	-18	-19	-19	-22	-23	-23	-20
CONTRACTS IN																	
13	CSPE PURCHASE	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	TOTAL CONTRACTS IN		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL DEDICATED RESOURCES																	
16	ACQUIRED PRIOR TO ACT,	5B1A	144	149	148	151	196	186	226	168	180	159	166	171	141	132	167
17	ACQUIRED, POST ACT,	5B1B	130	135	103	107	140	133	162	121	130	110	116	117	93	118	122
18	TOTAL DEDICATED RESOURCES		274	284	251	258	336	319	388	289	310	269	282	288	234	250	290

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TABLE D-11 (CONTINUED)

GRANT COUNTY PUD #2
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

NONDEDICATED RESOURCES

19 M HYDRO, WANAPUM SHARE
20 M HYDRO, PRIEST RAPIDS
21 NON-UTILITY GENERATION
21 TOTAL NONDEDICATED RES
22 TOTAL RESOURCES

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
19 M HYDRO, WANAPUM SHARE	16	16	14	15	19	18	22	15	17	15	16	18	13	14	16
20 M HYDRO, PRIEST RAPIDS	17	18	16	16	20	20	24	18	19	17	17	17	15	17	18
21 NON-UTILITY GENERATION	12	12	7	5	0	0	0	0	1	11	11	14	15	14	7
21 TOTAL NONDEDICATED RES	45	46	37	36	39	38	46	33	37	43	44	49	43	45	41
22 TOTAL RESOURCES	319	330	288	294	375	357	434	322	347	312	326	337	277	295	331

GRANT COUNTY PUD #2
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
GRANT COUNTY PUD #2 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
REGULATED HYDRO																	
1	WANAPUM SHARE	5B1A	75	71	69	70	90	89	112	84	92	78	78	124	89	70	87
2	WANAPUM SHARE	5B1B	70	67	54	55	71	70	88	66	72	62	61	97	70	66	70
3	PRIEST RAPIDS SHARE	5B1A	68	80	84	85	105	104	125	99	106	94	93	95	104	72	96
4	PRIEST RAPIDS DED SHR	5B1B	65	75	56	57	70	70	83	66	71	63	63	64	70	68	67
5	TOTAL HYDRO		278	293	263	267	336	333	408	315	341	297	295	380	333	276	319
LARGE THERMAL																	
OTHER RESOURCES																	
6	NON-UTILITY GENERATION	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	TOTAL OTHER RESOURCES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
8	CANADIAN ENTIT (CSPE)	5B1A	-5	-5	-5	-5	-5	-5	-5	-5	-3	-3	-3	-3	-3	-3	-4
9	CANADIAN ENTITL (CAN)	5B1A	-2	-2	-2	-2	-2	-2	-2	-2	-9	-9	-9	-9	-9	-9	-4
10	RESTORATION	5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
11	CNT OUT, GRT TO PP&L,PS	5B1B	-13	-13	-10	-8	-7	-8	-9	-7	-8	-10	-10	-12	-14	-14	-10
12	TOTAL CONTRACTS OUT		-23	-23	-20	-18	-17	-18	-19	-17	-18	-25	-25	-27	-29	-29	-22
CONTRACTS IN																	
13	CSPE PURCHASE	5B1A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1
14	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	TOTAL CONTRACTS IN		1	1	1	1	1	1	1	1	0	0	0	0	0	0	1
TOTAL DEDICATED RESOURCES																	
16	ACQUIRED PRIOR TO ACT,	5B1A	132	140	142	144	184	182	226	172	187	148	147	195	169	118	167
17	ACQUIRED, POST ACT,	5B1B	122	129	100	104	134	132	162	125	135	115	114	149	126	120	127
18	TOTAL DEDICATED RESOURCES		256	271	244	250	320	316	390	299	324	272	270	353	304	247	298

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GRANT COUNTY PUD #2
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
19 M HYDRO, WANAPUM SHARE	16	15	13	13	18	18	22	16	17	16	15	25	18	14	17
20 M HYDRO, PRIEST RAPIDS	15	17	16	17	20	19	24	18	20	18	17	17	19	17	18
21 NON-UTILITY GENERATION	12	12	7	5	0	0	0	0	1	11	11	14	15	14	7
21 TOTAL NONDEDICATED RES	43	44	36	35	38	37	46	34	38	45	43	56	52	45	42
22 TOTAL RESOURCES	299	315	280	285	358	353	436	333	362	317	313	409	356	292	340

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GRANT COUNTY PUD #2
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
GRANT COUNTY PUD #2 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
REGULATED HYDRO																	
1	WANAPUM SHARE	5B1A	75	71	69	70	90	89	112	84	92	78	78	124	89	70	87
2	WANAPUM SHARE	5B1B	70	67	54	55	71	70	88	66	72	62	61	97	70	66	70
3	PRIEST RAPIDS SHARE	5B1A	68	80	84	85	105	104	125	99	106	94	93	95	104	72	96
4	PRIEST RAPIDS DED SHR	5B1B	65	75	56	57	70	70	83	66	71	63	63	64	70	68	67
5	TOTAL HYDRO		278	293	263	267	336	333	408	315	341	297	295	380	333	276	319
LARGE THERMAL																	
OTHER RESOURCES																	
6	NON-UTILITY GENERATION	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	TOTAL OTHER RESOURCES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
8	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	CANADIAN ENTITL (CAN)	5B1A	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16
10	RESTORATION	5B1A	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
11	CNT OUT, GRT TO PP&L, PS	5B1B	-13	-13	-10	-8	-7	-8	-9	-7	-8	-10	-10	-13	-14	-14	-10
12	TOTAL CONTRACTS OUT		-32	-32	-29	-27	-26	-27	-28	-26	-27	-29	-29	-32	-33	-33	-29
CONTRACTS IN																	
13	CSPE PURCHASE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	TOTAL CONTRACTS IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES																	
16	ACQUIRED PRIOR TO ACT,	5B1A	108	116	118	120	160	158	202	148	163	137	136	184	158	107	147
17	ACQUIRED, POST ACT,	5B1B	122	129	100	104	134	132	162	125	135	115	114	148	126	120	127
18	TOTAL DEDICATED RESOURCES		246	261	234	240	310	306	380	289	314	268	266	348	300	243	290

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GRANT COUNTY PUD #2
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
19 M HYDRO, WANAPUM SHARE	16	15	13	13	18	18	22	16	17	16	15	25	18	14	17
20 M HYDRO, PRIEST RAPIDS	15	17	16	17	20	19	24	18	20	18	17	17	19	17	18
21 NON-UTILITY GENERATION	12	12	7	5	0	0	0	0	1	11	11	14	15	14	7
21 TOTAL NONDEDICATED RES	43	44	36	35	38	37	46	34	38	45	43	56	52	45	42
22 TOTAL RESOURCES	289	305	270	275	348	343	426	323	352	313	309	404	352	288	332

TABLE D-12

PEND OREILLE COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		1994-95 OPERATING YEAR												1993 WHITEBOOK: 12/19/93 RUN DATE: 01/19/94			
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY			JUN	JUL
PEND OREILLE COUNTY PUD #1 DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	CALISPEL CREEK	5B1A	0	0	1	0	0	1	0	0	1	0	0	1	0	0	
REGULATED HYDRO																	
2	BOX CANYON DED SHARE	5B1A	4	0	14	26	9	13	5	17	13	29	35	35	22	9	16
3	TOTAL HYDRO		4	0	15	26	9	14	5	17	14	29	35	36	22	9	17
LARGE THERMAL																	
OTHER RESOURCES																	
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
4	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	PEND 0 TO SCL,PWR SALE	5B1A	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
6	TOTAL CONTRACTS OUT		-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
CONTRACTS IN																	
7	CSPE PURCHASE	5B1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	TOTAL CONTRACTS IN		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL DEDICATED RESOURCES																	
9	ACQUIRED PRIOR TO ACT, 5B1A		-10	-14	1	12	-5	0	-9	3	0	15	21	22	8	-5	3
10	ACQUIRED, POST ACT, 5B1B		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	TOTAL DEDICATED RESOURCES		-10	-14	1	12	-5	0	-9	3	0	15	21	22	8	-5	3
NONDEDICATED RESOURCES																	
12	M.HYD.,BOX CANYON AF ENC.PD		39	32	39	39	39	39	39	39	39	39	39	39	39	39	39
13	C.I., SCL TO PEND 0 ,PWR SA		23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
14	C.I., WWP TO PEND 0 ,PWR SA		10	10	10	10	10	10	10	11	10	11	10	10	10	10	10
15	TOTAL NONDEDICATED RES		72	65	72	72	72	72	72	73	72	73	72	72	72	72	72
16	TOTAL RESOURCES		62	51	73	84	67	72	63	76	72	88	93	94	80	67	75

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PEND OREILLE COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

PEND OREILLE COUNTY PUD #1
DEDICATED RESOURCES

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
HYDRO INDEPENDENTS																
1 CALISPEL CREEK	5B1A	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0
REGULATED HYDRO																
2 BOX CANYON DED SHARE	5B1A	25	0	18	29	23	18	11	16	8	23	39	39	23	18	21
3 TOTAL HYDRO		25	0	19	29	23	19	11	16	9	23	39	40	23	18	21
LARGE THERMAL																
OTHER RESOURCES																
EXPORTS																
IMPORTS																
CONTRACTS OUT																
4 RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 PEND 0 TO SCL,PWR SALE	5B1A	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
6 TOTAL CONTRACTS OUT		-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
CONTRACTS IN																
7 CSPE PURCHASE	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 TOTAL CONTRACTS IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES																
9 ACQUIRED PRIOR TO ACT,	5B1A	13	-12	7	17	11	7	-1	4	-3	11	27	28	11	6	9
10 ACQUIRED, POST ACT,	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 TOTAL DEDICATED RESOURCES		13	-12	7	17	11	7	-1	4	-3	11	27	28	11	6	9
NONDEDICATED RESOURCES																
12 M.HYD., BOX CANYON AF ENC.PD		36	29	35	35	35	35	35	35	35	35	35	35	36	36	35
13 C.I., SCL TO PEND 0 ,PWR SA		26	27	27	27	27	27	27	27	27	27	27	27	26	26	27
14 C.I., WMP TO PEND 0 ,PWR SA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 TOTAL NONDEDICATED RES		62	56	62	62	62	62	62	62	62	62	62	62	62	62	62
16 TOTAL RESOURCES		75	44	69	79	73	69	61	66	59	73	89	90	73	68	71

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TABLE D-12

PEND OREILLE COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
PEND OREILLE COUNTY PUD #1 DEDICATED RESOURCES		-----														
HYDRO INDEPENDENTS																
1	CALISPEL CREEK 5B1A	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0
REGULATED HYDRO																
2	BOX CANYON DED SHARE 5B1A	29	0	21	32	26	21	14	19	11	26	42	42	27	22	24
3	TOTAL HYDRO	29	0	22	32	26	22	14	19	12	26	42	43	27	22	24
LARGE THERMAL																
OTHER RESOURCES																
EXPORTS																
IMPORTS																
CONTRACTS OUT																
4	RESTORATION 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	PEND O TO SCL, PWR SALE 5B1A	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
6	TOTAL CONTRACTS OUT	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
CONTRACTS IN																
7	CSPE PURCHASE 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	TOTAL CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES																
9	ACQUIRED PRIOR TO ACT, 5B1A	20	-9	13	23	17	13	5	10	3	17	33	34	18	13	15
10	ACQUIRED, POST ACT, 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	TOTAL DEDICATED RESOURCES	20	-9	13	23	17	13	5	10	3	17	33	34	18	13	15
NONDEDICATED RESOURCES																
12	M.HYD., BOX CANYON AF ENC. PD	32	29	32	32	32	32	32	32	32	32	32	32	32	32	32
13	C.I., SCL TO PEND O, PWR SA	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
14	C.I., WHP TO PEND O, PWR SA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	TOTAL NONDEDICATED RES	62	59	62	62	62	62	62	62	62	62	62	62	62	62	62
16	TOTAL RESOURCES	82	50	75	85	79	75	67	72	65	79	95	96	80	75	77

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SEATTLE CITY LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS		1994-95 OPERATING YEAR															
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
SEATTLE CITY LIGHT DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	CEDAR FALLS, NEWHALEM	5B1A	6	6	5	9	7	2	10	29	12	9	9	7	4	3	9
2	SOUTH FORK TOLT	5B1B	9	9	6	5	0	4	5	5	5	5	5	6	8	9	6
REGULATED HYDRO																	
3	ROSS	5B1A	22	33	34	75	78	76	81	72	68	45	52	33	85	74	63
4	DIABLO	5B1A	45	46	41	70	72	75	83	88	82	65	67	45	93	88	71
5	GORGE	5B1A	53	53	45	78	78	83	91	102	95	80	81	55	107	101	81
6	BOUNDARY	5B1A	169	143	241	355	398	219	285	263	328	431	503	414	597	261	332
7	BOUNDARY EXPANSION	5B1B	102	80	111	104	-85	122	-1	116	16	55	75	165	-167	65	50
8	PRIEST RADIPS SHARE	5B1A	38	39	35	36	45	43	51	39	42	37	39	39	33	35	40
9	TOTAL HYDRO		444	409	518	732	593	624	605	714	648	727	831	764	760	636	650
LARGE THERMAL																	
10	CENTRALIA SHARE	5B1A	99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
11	TOTAL LARGE THERMAL		99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
OTHER RESOURCES																	
12	NON-UTILITY GENERATION		121	121	75	28	4	5	10	12	28	88	88	134	141	138	65
EXPORTS																	
IMPORTS																	
13	BC TO SCL, ROSS RPLC	5B1B	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
14	TOTAL IMPORTS		18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
CONTRACTS OUT																	
15	CANADIAN ENTIT (CSPE)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	SCL TO PEND O, PS	5B1A	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23
18	RESTORATION	5B1A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	TOTAL CONTRACTS OUT		-22	-22	-22	-22	-22	-22	-22	-22	-22	-22	-22	-22	-22	-22	-22

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TABLE D-13 (CONTINUED)

SEATTLE CITY LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR														
	AUG 1-15 16-31	AUG 1-15 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15 16-30	APR 1-15 16-30	MAY	JUN	JUL	
CONTRACTS IN															
20 CSPE PURCHASE	35	35	35	35	35	35	35	35	35	35	35	35	35	35	34
21 SUPPLEMENTAL CAPACITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PEND 0 TO SCL, PWR SALE	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
23 TOTAL CONTRACTS IN	50	50	50	50	50	50	50	50	50	50	50	48	48	48	49
TOTAL DEDICATED RESOURCES															
24 ACQUIRED PRIOR TO ACT, SBIA	460	447	528	750	805	625	728	720	754	792	876	688	1026	687	716
25 ACQUIRED, POST ACT, SBIA	250	228	205	156	-46	176	72	200	109	175	195	331	18	236	157
26 TOTAL DEDICATED RESOURCES	710	675	733	906	759	801	800	920	863	967	1071	1019	1044	923	873
NONDEDICATED RESOURCES															
27 SM THRM & MISC, BOUNDARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 IMP, NCPA TO SCL, EXCHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 EXP, SCL TO NCPA, EXCHANGE	-19	-19	-31	-15	0	0	0	0	0	0	0	0	-31	-31	-11
30 C.O., SCL TO ID, NRG SALE	-54	-54	-16	0	0	0	0	0	0	0	0	0	0	-100	-14
31 C.O., SCL TO TCL, EXCHANGE	0	0	0	-50	0	0	0	0	0	0	0	0	0	0	-4
32 C.I., ID TO SCL, NRG SALE	0	0	0	0	25	50	50	50	0	0	0	0	0	0	15
33 C.I., TCL TO SCL, EXCHANGE	50	50	0	0	0	0	0	0	0	0	0	0	0	0	4
34 TOTAL NONDEDICATED RES	-23	-23	-47	-65	25	50	50	50	0	0	0	0	-31	-131	-10
35 TOTAL RESOURCES	687	652	686	841	784	851	850	970	863	967	1071	1019	1013	792	863

TABLE D-13

SEATTLE CITY LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
SEATTLE CITY LIGHT DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	CEDAR FALLS, NEWHALEM	5B1A	6	6	5	9	7	2	10	29	12	9	9	7	4	3	9
2	SOUTH FORK TOLT	5B1B	9	9	6	5	0	4	5	5	5	5	5	6	8	9	6
REGULATED HYDRO																	
3	ROSS	5B1A	22	33	34	76	78	77	81	72	68	45	52	33	85	74	63
4	DIABLO	5B1A	45	46	41	70	72	75	83	88	82	65	67	45	93	88	71
5	GORGE	5B1A	53	53	45	78	78	83	91	102	95	80	81	55	107	101	81
6	BOUNDARY	5B1A	168	143	241	356	398	219	285	263	329	432	503	414	597	261	332
7	BOUNDARY EXPANSION	5B1B	252	62	113	98	-7	127	12	71	-49	-44	86	165	-182	116	53
8	PRIEST RADIPS SHARE	5B1A	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40
9	TOTAL HYDRO		587	390	519	727	669	629	618	670	585	630	841	764	754	686	654
LARGE THERMAL																	
10	CENTRALIA SHARE	5B1A	99	99	99	99	99	99	99	99	99	99	99	72	78	99	95
11	TOTAL LARGE THERMAL		99	99	99	99	99	99	99	99	99	99	99	72	78	99	95
OTHER RESOURCES																	
12	NON-UTILITY GENERATION		121	121	76	28	4	5	10	12	28	88	88	134	142	138	65
EXPORTS																	
IMPORTS																	
13	BC TO SCL, ROSS RPLC	5B1B	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
14	TOTAL IMPORTS		18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
CONTRACTS OUT																	
15	CANADIAN ENTIT (CSPE)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	-1
16	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
17	SCL TO PEND O, PS	5B1A	-26	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-26	-26	-27
18	RESTORATION	5B1A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	TOTAL CONTRACTS OUT		-25	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-26	-25	-25	-26

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TABLE D-13 (CONTINUED)

SEATTLE CITY LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
CONTRACTS IN															
20 CSPE PURCHASE 5B1A	27	27	27	27	27	27	27	27	27	13	13	13	13	13	22
21 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PEND 0 TO SCL,PHR SALE 5B1A	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
23 TOTAL CONTRACTS IN	39	39	39	39	39	39	39	39	39	25	25	25	25	25	34
TOTAL DEDICATED RESOURCES															
24 ACQUIRED PRIOR TO ACT, 5B1A	439	431	512	736	788	610	713	706	741	767	848	664	1006	660	698
25 ACQUIRED, POST ACT, 5B1B	400	210	208	150	32	181	85	155	44	76	206	331	4	287	161
26 TOTAL DEDICATED RESOURCES	839	641	720	886	820	791	798	861	785	843	1054	995	1010	947	858
NONDEDICATED RESOURCES															
27 SM THRM & MISC, BOUNDARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 IMP, NCPA TO SCL, EXCHANGE	0	0	0	0	24	30	30	30	30	6	6	0	0	0	12
29 EXP, SCL TO NCPA, EXCHANGE	-19	-19	-31	-15	0	0	0	0	0	0	0	0	-31	-31	-11
30 C.O., SCL TO ID, NRG SALE	-54	-54	-16	0	0	0	0	0	0	0	0	0	0	-100	-14
31 C.O., SCL TO TCL, EXCHANGE	0	0	0	-50	0	0	0	0	0	0	0	0	0	0	-4
32 C.I., ID TO SCL, NRG SALE	0	0	0	0	25	50	50	50	0	0	0	0	0	0	15
33 C.I., TCL TO SCL, EXCHANGE	50	50	0	0	0	0	0	0	0	0	0	0	0	0	4
34 TOTAL NONDEDICATED RES	-23	-23	-47	-65	49	80	80	80	30	6	6	0	-31	-131	2
35 TOTAL RESOURCES	816	618	673	821	869	871	878	941	815	849	1060	995	979	816	861

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TABLE D-13

SEATTLE CITY LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

SEATTLE CITY LIGHT
DEDICATED RESOURCES

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
HYDRO INDEPENDENTS																	
1	CEDAR FALLS, NEWHALEM	5B1A	6	6	5	9	7	2	10	29	12	9	9	7	4	3	9
2	SOUTH FORK TOLT	5B1B	9	9	6	5	0	4	5	5	5	5	5	6	8	9	6
REGULATED HYDRO																	
3	ROSS	5B1A	22	33	34	76	78	77	81	72	68	45	52	33	85	74	63
4	DIABLO	5B1A	45	46	41	70	72	75	83	88	82	65	67	45	93	88	71
5	GORGE	5B1A	53	53	45	78	78	83	91	102	95	80	81	55	107	101	81
6	BOUNDARY	5B1A	168	143	241	356	398	219	285	263	329	432	503	414	597	261	332
7	BOUNDARY EXPANSION	5B1B	252	62	113	98	-7	127	12	71	-49	-44	86	165	-182	116	53
8	PRIEST RADIPS SHARE	5B1A	32	38	34	35	43	42	51	40	43	38	38	39	42	34	40
9	TOTAL HYDRO		587	390	519	727	669	629	618	670	585	630	841	764	754	686	654
LARGE THERMAL																	
10	CENTRALIA SHARE	5B1A	99	99	99	99	99	99	99	99	99	99	99	63	89	99	95
11	TOTAL LARGE THERMAL		99	99	99	99	99	99	99	99	99	99	99	63	89	99	95
OTHER RESOURCES																	
12	NON-UTILITY GENERATION		121	121	76	28	4	5	10	12	28	88	88	134	142	138	65
EXPORTS																	
IMPORTS																	
13	BC TO SCL, ROSS RPLC	5B1B	18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
14	TOTAL IMPORTS		18	18	13	19	35	45	58	67	60	27	27	26	36	24	36
CONTRACTS OUT																	
15	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	CANADIAN ENTITL (CAN)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17	SCL TO PEND O, PS	5B1A	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30
18	RESTORATION	5B1A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	TOTAL CONTRACTS OUT		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29

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SEATTLE CITY LIGHT
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	2003- 4 OPERATING YEAR															
	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
CONTRACTS IN																
20 CSPE PURCHASE 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PEND 0 TO SCL, PWR SALE 5B1A	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
23 TOTAL CONTRACTS IN	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
TOTAL DEDICATED RESOURCES																
24 ACQUIRED PRIOR TO ACT, 5B1A	405	398	479	703	755	577	680	673	708	748	829	636	997	640	670	
25 ACQUIRED, POST ACT, 5B1B	400	210	208	150	32	181	85	155	44	76	206	331	4	287	161	
26 TOTAL DEDICATED RESOURCES	805	608	687	853	787	758	765	828	752	824	1035	967	1001	927	830	
NONDEDICATED RESOURCES																
27 SM THRM & MISC, BOUNDARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 IMP, NCPA TO SCL, EXCHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 EXP, SCL TO NCPA, EXCHANGE	-19	-19	-31	-15	0	0	0	0	0	0	0	0	-31	-31	-11	
30 C.O., SCL TO ID, NRG SALE	-54	-54	-16	0	0	0	0	0	0	0	0	0	0	0	-6	
31 C.O., SCL TO TCL, EXCHANGE	0	0	0	-50	0	0	0	0	0	0	0	0	0	0	-4	
32 C.I., ID TO SCL, NRG SALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33 C.I., TCL TO SCL, EXCHANGE	50	50	0	0	0	0	0	0	0	0	0	0	0	0	4	
34 TOTAL NONDEDICATED RES	-23	-23	-47	-65	0	0	0	0	0	0	0	0	-31	-31	-16	
35 TOTAL RESOURCES	782	585	640	788	787	758	765	828	752	824	1035	967	970	896	814	

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TABLE D-14

SNOHOMISH COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

SNOHOMISH COUNTY PUD #1
DEDICATED RESOURCES

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
HYDRO INDEPENDENTS																
1 JACKSON	5B1B	18	18	21	22	19	25	29	93	39	51	51	35	37	21	34
REGULATED HYDRO																
TOTAL HYDRO		18	18	21	22	19	25	29	93	39	51	51	35	37	21	34
LARGE THERMAL																
2 CENTRALIA SHARE	5B1B	99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
3 TOTAL LARGE THERMAL		99	99	99	99	99	99	99	99	99	99	99	69	81	99	95
OTHER RESOURCES																
4 NON-UTILITY GEN	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 SCOTT PAPER, COGEN	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 TOTAL OTHER RESOURCES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXPORTS																
IMPORTS																
CONTRACTS OUT																
CONTRACTS IN																
7 CSPE PURCHASE	5B1A	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
8 TOTAL CONTRACTS IN		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TOTAL DEDICATED RESOURCES																
9 ACQUIRED PRIOR TO ACT, 5B1A		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
10 ACQUIRED, POST ACT, 5B1B		117	117	120	121	118	124	128	192	138	150	150	104	118	120	129
11 TOTAL DEDICATED RESOURCES		121	121	124	125	122	128	132	196	142	154	154	108	122	124	133
NONDEDICATED RESOURCES																
12 NON-UTILITY GENERATION		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 CONT OUT, SNOH TO PSP&L, PS P		-3	-3	-4	-4	-5	-8	-7	-6	-6	-5	-5	-4	-4	-3	-5
14 EXPORT, SNOH TO SMUD, PS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 COGEN, SCOTT PAPER		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 TOTAL NONDEDICATED RES		-3	-3	-4	-4	-5	-8	-7	-6	-6	-5	-5	-4	-4	-3	-5
17 TOTAL RESOURCES		118	118	120	121	117	120	125	190	136	149	149	104	118	121	128

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TABLE D-14

SNOHOMISH COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

SNOHOMISH COUNTY PUD #1
DEDICATED RESOURCES

HYDRO INDEPENDENTS

1 JACKSON

5B1B 18 18 21 22 19 25 29 93 39 51 51 35 37 21 34

REGULATED HYDRO

TOTAL HYDRO

18 18 21 22 19 25 29 93 39 51 51 35 37 21 34

LARGE THERMAL

2 CENTRALIA SHARE

5B1B 99 99 99 99 99 99 99 99 99 99 99 73 78 99 95

3 TOTAL LARGE THERMAL

99 99 99 99 99 99 99 99 99 99 99 73 78 99 95

OTHER RESOURCES

4 NON-UTILITY GEN

5B1B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

5 SCOTT PAPER, COGEN

5B1B 6 6 4 4 4 4 4 4 4 4 6 6 6 6 5

6 TOTAL OTHER RESOURCES

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

EXPORTS

IMPORTS

CONTRACTS OUT

CONTRACTS IN

7 CSPE PURCHASE

5B1A 3 3 3 3 3 3 3 3 3 3 2 2 2 2 3

8 TOTAL CONTRACTS IN

3 3 3 3 3 3 3 3 3 3 2 2 2 2 3

TOTAL DEDICATED RESOURCES

9 ACQUIRED PRIOR TO ACT, 5B1A

3 3 3 3 3 3 3 3 3 3 2 2 2 2 3

10 ACQUIRED, POST ACT, 5B1B

117 117 120 121 118 124 128 192 138 150 150 108 115 120 129

11 TOTAL DEDICATED RESOURCES

120 120 123 124 121 127 131 195 141 152 152 110 117 122 132

NONDEDICATED RESOURCES

12 NON-UTILITY GENERATION

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

13 CONT OUT, SNOH TO PSP&L, PS P

-3 -3 -4 -4 -5 -7 -7 -6 -6 -5 -5 -4 -4 -3 -5

14 EXPORT, SNOH TO SMUD, PS

-32 -32 -23 -23 -23 -23 -23 -23 -23 -32 -32 -32 -32 -32 -27

15 COGEN, SCOTT PAPER

32 32 23 23 23 23 23 23 23 32 32 32 32 32 27

16 TOTAL NONDEDICATED RES

-3 -3 -4 -4 -5 -7 -7 -6 -6 -5 -5 -4 -4 -3 -5

17 TOTAL RESOURCES

117 117 119 120 116 120 124 189 135 147 147 106 113 119 127

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TABLE D-14

SNOHOMISH COUNTY PUD #1
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

SNOHOMISH COUNTY PUD #1
DEDICATED RESOURCES

HYDRO INDEPENDENTS

1 JACKSON

5B1B 18 18 21 22 19 25 29 93 39 51 51 35 37 21 34

REGULATED HYDRO

TOTAL HYDRO

18 18 21 22 19 25 29 93 39 51 51 35 37 21 34

LARGE THERMAL

2 CENTRALIA SHARE

5B1B 99 99 99 99 99 99 99 99 99 99 99 63 88 99 95

3 TOTAL LARGE THERMAL

99 99 99 99 99 99 99 99 99 99 99 63 88 99 95

OTHER RESOURCES

4 NON-UTILITY GEN

5B1B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

5 SCOTT PAPER, COGEN

5B1B 6 6 4 4 4 4 4 4 4 4 6 6 5 6 6 5

6 TOTAL OTHER RESOURCES

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

EXPORTS

IMPORTS

CONTRACTS OUT

CONTRACTS IN

7 CSPE PURCHASE

5B1A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

8 TOTAL CONTRACTS IN

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TOTAL DEDICATED RESOURCES

9 ACQUIRED PRIOR TO ACT, 5B1A

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

10 ACQUIRED, POST ACT, 5B1B

117 117 120 121 118 124 128 192 138 150 150 98 125 120 129

11 TOTAL DEDICATED RESOURCES

117 117 120 121 118 124 128 192 138 150 150 98 125 120 129

NONDEDICATED RESOURCES

12 NON-UTILITY GENERATION

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

13 CONT OUT, SNOH TO PSP&L, PS P

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

14 EXPORT, SNOH TO SMUD, PS

-32 -32 -23 -23 -23 -23 -23 -23 -23 -32 -32 -33 -32 -32 -27

15 COGEN, SCOTT PAPER

32 32 23 23 23 23 23 23 23 32 32 33 32 32 27

16 TOTAL NONDEDICATED RES

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

17 TOTAL RESOURCES

117 117 120 121 118 124 128 192 138 150 150 98 125 120 129

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TABLE D-15

TACOMA PUBLIC UTILITIES
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

TACOMA PUBLIC UTILITIES
DEDICATED RESOURCES

HYDRO INDEPENDENTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	HYNOCHEE	5B1B	4	4	4	4	4	4	4	4	4	4	4	4	4	4
REGULATED HYDRO																
2	CUSHMAN 1	5B1A	3	6	14	23	8	26	2	2	2	3	7	4	2	8
3	CUSHMAN 2	5B1A	2	7	21	40	13	51	1	0	0	1	9	3	0	12
4	ALDER	5B1A	19	16	13	14	13	19	18	20	21	24	22	20	19	18
5	LA GRANDE	5B1A	28	24	19	21	21	32	30	32	33	37	33	30	28	28
6	MOSSYROCK	5B1A	56	50	76	92	100	141	129	94	68	81	135	75	90	67
7	MAYFIELD	5B1A	30	26	41	56	60	97	97	55	58	87	55	55	41	63
8	MAYFIELD	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	PRIEST RAPIDS SHARE	5B1A	38	39	35	36	45	43	50	39	42	37	39	34	35	40
10	TOTAL HYDRO		180	172	223	286	264	413	331	288	224	236	330	244	196	264

LARGE THERMAL

11	CENTRALIA SHARE	5B1B	99	99	99	99	99	99	99	99	99	99	69	81	99	95
12	TOTAL LARGE THERMAL		99	99	99	99	99	99	99	99	99	99	69	81	99	95

OTHER RESOURCES

EXPORTS

IMPORTS

CONTRACTS OUT

13	CANADIAN ENTIT (CSPE)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	TOTAL CONTRACTS OUT		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

CONTRACTS IN

16	CSPE PURCHASE	5B1B	19	19	19	19	19	19	19	19	19	19	19	19	19	18
17	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	TOTAL CONTRACTS IN		19	19	19	19	19	19	19	19	19	19	19	19	19	18

TOTAL DEDICATED RESOURCES

20	ACQUIRED PRIOR TO ACT,	5B1A	179	171	222	285	263	412	330	287	223	235	329	243	239	195	263
21	ACQUIRED, POST ACT,	5B1B	122	122	122	122	122	122	122	122	122	122	92	104	122	117	
22	TOTAL DEDICATED RESOURCES		297	289	340	403	381	530	448	405	341	353	447	331	339	313	376

TACOMA PUBLIC UTILITIES
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
23 HY IND, HOOD STREET	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1
24 EXP, TCL TO WAPA, PWR SALE	-41	-41	-69	-67	-40	-29	-20	-24	-32	-41	-41	-41	-41	-41	-40
25 C.O. TCL TO SCL, EXCHANGE	-50	-50	0	0	0	0	0	0	0	0	0	0	0	0	-4
26 C.I. SCL TO TCL, EXCHANGE	0	0	0	50	0	0	0	0	0	0	0	0	0	0	4
27 COGEN, STEAM PLANT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 CSPE PURCHASE	17	17	17	17	17	17	17	17	17	15	15	15	15	15	16
29 TOTAL NONDEDICATED RES	-75	-75	-53	1	-23	-12	-3	-7	-15	-26	-26	-26	-26	-27	-24
30 TOTAL RESOURCES	222	214	287	403	358	518	445	398	326	327	421	305	313	286	353

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TACOMA PUBLIC UTILITIES
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL		
TACOMA PUBLIC UTILITIES DEDICATED RESOURCES																	
HYDRO INDEPENDENTS																	
1	HYNOCHEE	5B1B	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
REGULATED HYDRO																	
2	CUSHMAN 1	5B1A	3	6	14	23	8	26	2	2	2	3	7	4	2	8	
3	CUSHMAN 2	5B1A	2	7	21	40	13	51	1	0	0	1	9	3	0	12	
4	ALDER	5B1A	19	16	13	14	13	19	18	20	21	24	22	20	19	18	
5	LA GRANDE	5B1A	28	24	19	21	21	32	30	32	33	37	33	30	28	28	
6	MOSSYROCK	5B1A	54	50	76	92	100	141	129	94	68	81	135	75	90	67	
7	MAYFIELD	5B1A	29	26	41	56	60	97	97	97	55	58	87	55	55	41	
8	MAYFIELD	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	PRIEST RAPIDS SHARE	5B1A	32	38	34	35	43	42	51	40	43	38	38	39	42	34	
10	TOTAL HYDRO		171	171	222	285	262	412	332	289	225	237	329	244	248	195	
LARGE THERMAL																	
11	CENTRALIA SHARE	5B1B	99	99	99	99	99	99	99	99	99	99	72	78	99	95	
12	TOTAL LARGE THERMAL		99	99	99	99	99	99	99	99	99	99	72	78	99	95	
OTHER RESOURCES																	
EXPORTS																	
IMPORTS																	
CONTRACTS OUT																	
13	CANADIAN ENTIT (CSPE)	5B1A	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	-1	
14	CANADIAN ENTITL (CAN)	5B1A	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	0	
15	TOTAL CONTRACTS OUT		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
CONTRACTS IN																	
16	CSPE PURCHASE	5B1B	19	19	19	19	19	19	19	19	13	13	13	13	13	17	
17	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	TOTAL CONTRACTS IN		19	19	19	19	19	19	19	19	13	13	13	13	13	17	
TOTAL DEDICATED RESOURCES																	
20	ACQUIRED PRIOR TO ACT,	5B1A	170	170	221	284	261	411	331	288	224	236	328	243	247	194	263
21	ACQUIRED, POST ACT,	5B1B	122	122	122	122	122	122	122	122	116	116	89	95	116	116	
22	TOTAL DEDICATED RESOURCES		288	288	339	402	379	529	449	406	342	348	440	328	338	306	375

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TABLE D-15 (CONTINUED)

TACOMA PUBLIC UTILITIES
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
23 HY IND, HOOD STREET	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1
24 EXP, TCL TO WAPA, PWR SALE	-41	-41	-69	-67	-41	-29	-20	-24	-32	-41	-41	-41	-41	-41	-41
25 C.O. TCL TO SCL, EXCHANGE	-50	-50	0	0	0	0	0	0	0	0	0	0	0	0	-4
26 C.I. SCL TO TCL, EXCHANGE	0	0	0	50	0	0	0	0	0	0	0	0	0	0	4
27 COGEN, STEAM PLANT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 CSPE PURCHASE	9	9	9	9	9	9	9	9	9	9	9	9	9	9	6
29 TOTAL NONDEDICATED RES	-83	-83	-61	-8	-32	-20	-11	-15	-23	-40	-40	-40	-40	-41	-34
30 TOTAL RESOURCES	205	205	278	394	347	509	438	391	319	308	400	288	298	265	340

TABLE D-15

TACOMA PUBLIC UTILITIES
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

TACOMA PUBLIC UTILITIES
DEDICATED RESOURCES

HYDRO INDEPENDENTS

		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
1	WYNOCHEE	5B1B	4	4	4	4	4	4	4	4	4	4	4	4	4	4

REGULATED HYDRO

2	CUSHMAN 1	5B1A	3	6	14	23	8	26	2	2	2	3	7	4	2	8
3	CUSHMAN 2	5B1A	2	7	21	40	13	51	1	0	0	1	9	3	0	12
4	ALDER	5B1A	19	16	13	14	13	19	18	20	21	24	22	20	19	18
5	LA GRANDE	5B1A	28	24	19	21	21	32	30	32	33	37	33	30	28	28
6	MOSSYROCK	5B1A	54	50	76	92	100	141	129	94	68	81	135	75	90	67
7	MAYFIELD	5B1A	29	26	41	56	60	97	97	55	58	87	55	55	41	63
8	MAYFIELD	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	PRIEST RAPIDS SHARE	5B1A	32	38	34	35	43	42	51	40	43	38	38	39	42	40

10	TOTAL HYDRO		171	171	222	285	262	412	332	289	225	237	329	244	248	195	264
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LARGE THERMAL

11	CENTRALIA SHARE	5B1B	99	99	99	99	99	99	99	99	99	99	63	89	99	95
----	-----------------	------	----	----	----	----	----	----	----	----	----	----	----	----	----	----

12	TOTAL LARGE THERMAL		99	99	99	99	99	99	99	99	99	99	63	89	99	95
----	---------------------	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----

OTHER RESOURCES

EXPORTS

IMPORTS

CONTRACTS OUT

13	CANADIAN ENTIT (CSPE)	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
----	-----------------------	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---

14	CANADIAN ENTITL (CAN)	5B1A	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
----	-----------------------	------	----	----	----	----	----	----	----	----	----	----	----	----	----	----

15	TOTAL CONTRACTS OUT		-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
----	---------------------	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CONTRACTS IN

16	CSPE PURCHASE	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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17	SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
----	-----------------------	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---

18	RESTORATION	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
----	-------------	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---

19	TOTAL CONTRACTS IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0
----	--------------------	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TOTAL DEDICATED RESOURCES

20	ACQUIRED PRIOR TO ACT,	5B1A	169	169	220	283	260	410	330	287	223	235	327	242	246	193	262
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21	ACQUIRED, POST ACT,	5B1B	103	103	103	103	103	103	103	103	103	103	67	93	103	99
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22	TOTAL DEDICATED RESOURCES		268	268	319	382	359	509	429	386	322	334	426	305	335	292	357
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TACOMA PUBLIC UTILITIES
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
23 HY IND, HOOD STREET	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1
24 EXP, TCL TO WAPA, PWR SALE	-41	-41	-69	-67	-41	-29	-20	-24	-32	-41	-41	-41	-41	-41	-41
25 C.O. TCL TO SCL, EXCHANGE	-50	-50	0	0	0	0	0	0	0	0	0	0	0	0	-4
26 C.I. SCL TO TCL, EXCHANGE	0	0	0	50	0	0	0	0	0	0	0	0	0	0	4
27 COGEN, STEAM PLANT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 CSPE PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 TOTAL NONDEDICATED RES	-91	-91	-69	-16	-40	-28	-19	-23	-31	-40	-40	-40	-40	-41	-40
30 TOTAL RESOURCES	177	177	250	366	319	481	410	363	291	294	386	265	295	251	317

SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1994-95 OPERATING YEAR												
	AUG 1-15 16-31	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15 16-30	APR 16-30	MAY	JUN

SMALL & NON GEN PUBLIC AGENCIES
DEDICATED RESOURCES

HYDRO INDEPENDENTS	15	15	11	10	11	12	12	12	11	15	19	18	17	19	14
1 GEM STATE HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 MILL CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 MORSE CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 MOYIE SPRINGS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 REEDER GULCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 SODA CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 YELM	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9
8 STRAWBERRY	1	2	2	2	2	1	2	2	2	2	2	2	2	1	2
9 THE DALLES	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

REGULATED HYDRO

10 HELLS OKANOGAN SHARE	6	5	6	6	8	7	9	7	7	7	6	9	5	5	7
11 HELLS OKANOGAN SHARE	28	25	21	21	26	26	30	23	23	25	22	30	18	21	24
12 WANAPUM F GROVE SHARE	3	3	3	3	4	3	4	3	3	3	3	3	3	3	3
13 WANAPUM MCMINN SHARE	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3
14 WANAPUM M FREE SHARE	3	3	3	3	3	3	4	3	3	3	3	3	2	2	3
15 PRIEST R. F GROVE SHR	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2
16 PRIEST R. MCMINN SHARE	2	3	2	2	3	3	3	3	3	2	2	2	2	2	2
17 PRIEST R. M FREE SHARE	2	3	2	2	3	3	3	3	3	2	2	2	2	2	2
18 PRIEST R. KITATS SHARE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19 TOTAL HYDRO	81	80	68	71	84	81	93	78	83	82	80	91	73	75	80

LARGE THERMAL

OTHER RESOURCES

20 RENEW, SHORT MT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
21 NON-UTILITY GEN	7	7	25	25	26	26	7	7	7	7	7	7	7	7	13
22 TOTAL OTHER RESOURCES	9	9	27	27	28	28	9	9	9	9	9	9	9	9	15

EXPORTS

23 CIDFL TO UTAH, GEM ST HYSBIB	-15	-15	0	0	0	0	0	0	0	0	0	0	-17	-19	-4
24 TOTAL EXPORTS	-15	-15	0	0	0	0	0	0	0	0	0	0	-17	-19	-4

SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1990 WATER YEAR ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

IMPORTS

CONTRACTS OUT

CONTRACTS OUT	RETURN FOR CSPE	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	TOTAL
CANADIAN ENTITLEMENT RETURN FOR CSPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 PRIEST R. F GROVE CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 PRIEST R. MCMINN CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 PRIEST R. M FREE CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 PRIEST R. KITITS CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 WANAPUM F GROV CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 WANAPUM MCMINN CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 WANAPUM M FREE CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CANADIAN ENTITLEMENT RETURN FOR CSPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 WELLS OKANG CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 WELLS OKANG CER	5B1B	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
CANADIAN ENTITLEMENT RETURN TO CANADA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 PRIEST R. F GROVE CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 PRIEST R. MCMINN CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 PRIEST R. M FREE CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 PRIEST R. KITITS CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 WANAPUM F GROV CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 WANAPUM MCMINN CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 WANAPUM M FREE CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 WELLS OKANG CER	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 WELLS OKANG CER	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 TOTAL CONTRACTS OUT		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

CONTRACTS IN

CONTRACTS IN	RETURN FOR CSPE	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	TOTAL
44 CSPE PURCHASE	5B1A	37	37	37	37	37	37	37	37	37	36	36	36	36	36	37
45 SUPPLEMENTAL CAPACITY	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 BPA TO OTHER PUB, PKMD	5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 BPA TO CLK, PKMD LAKE	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 IDA TO OR TRAIL, SALE	5B1B	7	7	11	11	11	3	3	11	11	11	11	11	8	0	8
49 TOTAL CONTRACTS IN		44	44	48	48	48	40	40	48	48	47	47	47	44	36	45
TOTAL DEDICATED RESOURCES		72	74	70	74	81	76	83	76	76	73	73	76	71	68	74
50 ACQUIRED PRIOR TO ACT, SBIA		44	41	69	69	75	69	55	55	61	62	60	68	35	30	57
51 ACQUIRED, POST ACT, SBIA																
52 TOTAL DEDICATED RESOURCES		118	117	142	145	159	148	141	134	139	137	135	146	108	100	135

TABLE D-16 (CONTINUED)

SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1994-95 OPERATING YEAR

1930 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
53 LG THM, CENTRALIA GRY HBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 SM TH & MISC, DIESEL CIDFL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56 CONT OUT,NO WASCO TO PSP&L	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
57 CONT OUT,OTHER TO PSP&L,SP	-1	-1	-1	-1	-1	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1
58 TOTAL NONDEDICATED RES	-4	-4	-4	-4	-4	-5	-5	-4	-4	-4	-4	-4	-4	-4	-4
59 TOTAL RESOURCES	114	113	138	141	155	143	136	130	135	133	131	142	104	96	131

SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1998-99 OPERATING YEAR

1990 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

SMALL & NON GEN PUBLIC AGENCIES
DEDICATED RESOURCES

HYDRO INDEPENDENTS

1	GEM STATE HYDRO	CIDFL	5B1B	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
2	MILL CREEK	LEWIS	5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	MORSE CREEK	PRT ANGLS	5B1B	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0
4	MOYIE SPRINGS	BONNFY	5B1A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	REEDER GULCH	ASHLND	5B1B	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
6	SODA CREEK	SODA SPR	5B1B	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
7	YELM	CENTRAL	5B1A	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9
8	STRAWBERRY	LOW VAL	5B1A	1	2	2	2	2	2	2	1	2	2	2	2	2	1	2
9	THE DALLES	FSHWY NOWAS	5B1B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

REGULATED HYDRO

10	WELLS OKANOGAN SHARE		5B1A	5	5	6	6	7	7	9	7	8	6	6	9	7	4	7
11	WELLS OKANOGAN SHARE		5B1B	24	24	20	20	26	26	30	24	26	23	20	30	24	21	24
12	HANAPUM F GROVE SHARE		5B1A	3	3	3	3	3	3	4	3	3	3	3	5	3	3	3
13	HANAPUM MCMINN SHARE		5B1A	3	3	3	3	3	3	4	3	4	3	3	5	3	3	3
14	HANAPUM M FREE SHARE		5B1A	3	3	2	2	3	4	4	3	4	3	3	5	3	3	3
15	PRIEST R. F GROVE SHR		5B1A	2	2	2	2	3	3	3	3	3	2	2	2	3	2	2
16	PRIEST R. MCMINN SHARE		5B1A	2	2	2	2	3	3	3	3	3	2	2	2	3	2	2
17	PRIEST R. M FREE SHARE		5B1A	2	2	2	2	2	3	3	2	3	2	3	2	3	2	2
18	PRIEST R. KITATS SHARE		5B1A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	TOTAL HYDRO			76	77	66	69	80	84	93	79	89	83	81	97	85	75	81

LARGE THERMAL

OTHER RESOURCES

20	RENEW, SHORT MT	EMRLD	5B1B	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
21	NON-UTILITY GEN		5B1B	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
22	TOTAL OTHER RESOURCES			12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

EXPORTS

23	CIDFL TO UTAH,GEM ST	HY5B1B		-15	-15	0	0	0	0	0	0	0	0	0	0	-17	-19	-4
24	TOTAL EXPORTS			-15	-15	0	0	0	0	0	0	0	0	0	0	-17	-19	-4

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SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1990 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

1998-99 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
53 LG THM, CENTRALIA GRY HBR	49	49	49	49	49	49	49	49	49	49	49	36	39	49	47
54 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 SM TH & MISC, DIESEL CIDFL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56 CONT OUT,NO WASCO TO PSP&L	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
57 CONT OUT,OTHER TO PSP&L,SP	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
58 TOTAL NONDEDICATED RES	45	45	45	45	45	45	45	45	45	45	45	32	35	45	43
59 TOTAL RESOURCES	153	154	161	164	176	172	184	170	180	157	155	158	132	130	162

TABLE D-16

SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

AUG 1-15 AUG 16-31 SEP OCT NOV DEC JAN FEB MAR APR 1-15 APR 16-30 MAY JUN JUL

SMALL & NON GEN PUBLIC AGENCIES
DEDICATED RESOURCES

HYDRO INDEPENDENTS

1	GEM STATE HYDRO CIDFL	5B1B	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
2	MILL CREEK	LEWIS 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	MORSE CREEK	PRT ANGLS 5B1B	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0
4	MOYIE SPRINGS	BONNFY 5B1A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	REEDER GULCH	ASHLND 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	SODA CREEK	SODA SPR 5B1B	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
7	YELM	CENTRAL 5B1A	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9
8	STRAWBERRY	LOW VAL 5B1A	1	2	2	2	2	2	2	1	2	2	2	2	2	1	2
9	THE DALLES	FSHWY NOWAS 5B1B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

REGULATED HYDRO

10	HELLS OKANOAGAN SHARE	5B1A	5	5	6	6	7	7	9	7	8	6	6	9	7	4	7
11	HELLS OKANOAGAN SHARE	5B1B	24	24	20	20	26	26	30	24	26	23	20	30	24	21	24
12	HANAPUM F GROVE SHARE	5B1A	3	3	3	3	3	3	4	3	3	3	3	5	3	3	3
13	HANAPUM MCMINN SHARE	5B1A	3	3	3	3	3	3	4	3	4	3	3	5	3	3	3
14	HANAPUM M FREE SHARE	5B1A	3	3	2	2	3	4	3	3	4	3	3	5	3	3	3
15	PRIEST R. F GROVE SHR	5B1A	2	2	2	2	3	3	3	3	3	2	2	2	3	2	2
16	PRIEST R. MCMINN SHARE	5B1A	2	2	2	2	3	3	3	3	3	2	2	2	3	2	2
17	PRIEST R. M FREE SHARE	5B1A	2	2	2	2	2	3	3	2	3	2	3	2	3	2	2
18	PRIEST R. KITATS SHARE	5B1A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	TOTAL HYDRO		76	77	66	69	80	84	93	79	89	83	81	97	85	75	81

LARGE THERMAL

OTHER RESOURCES

20	RENEW, SHORT MT	EMRLD 5B1B	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
21	NON-UTILITY GEN	5B1B	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
22	TOTAL OTHER RESOURCES		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

EXPORTS

23	CIDFL TO UTAH, GEM ST HY	5B1B	-15	-15	0	0	0	0	0	0	0	0	0	0	-17	-19	-4
24	TOTAL EXPORTS		-15	-15	0	0	0	0	0	0	0	0	0	0	-17	-19	-4

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SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

2003- 4 OPERATING YEAR

1930 WATER YEAR ENERGY IN AVERAGE MEGAWATTS	1993- 4 OPERATING YEAR														
	AUG 1-15 16-31	AUG 1-15 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15 16-30	APR 1-15 16-30	MAY	JUN	JUL	
IMPORTS															
CONTRACTS OUT															
CANADIAN ENTITLEMENT RETURN FOR CSPE															
25 PRIEST R. F GROVE CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 PRIEST R. MCMINN CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 PRIEST R. M FREE CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 PRIEST R. KITITS CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 WANAPUM F GROV CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 WANAPUM MCMINN CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 WANAPUM M FREE CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CANADIAN ENTITLEMENT RETURN FOR CSPE															
32 WELLS OKANOG CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 WELLS OKANOG CER 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CANADIAN ENTITLEMENT RETURN TO CANADA															
34 PRIEST R. F GROVE CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 PRIEST R. MCMINN CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 PRIEST R. M FREE CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 PRIEST R. KITITS CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 WANAPUM F GROV CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 WANAPUM MCMINN CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40 WANAPUM M FREE CER 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 WELLS OKANOG CER 5B1A	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
42 WELLS OKANOG CER 5B1B	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
43 TOTAL CONTRACTS OUT	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
CONTRACTS IN															
44 CSPE PURCHASE 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 SUPPLEMENTAL CAPACITY 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 BPA TO OTHER PUB,PKWD 5B1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 BPA TO CLK,PKWD LAKE 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 IDA TO OR TRAIL, SALE 5B1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 TOTAL CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEDICATED RESOURCES															
50 ACQUIRED PRIOR TO ACT, 5B1A	34	35	31	35	39	41	45	45	43	36	37	45	40	32	39
51 ACQUIRED, POST ACT, 5B1B	35	35	42	41	48	50	54	54	53	54	51	59	35	32	45
52 TOTAL DEDICATED RESOURCES	71	72	76	79	90	94	103	103	99	93	91	107	78	66	87

SMALL & NON GENERATING PUBLIC AGENCIES INCLUDING CLARK AND GRAYS HARBOR
DEDICATED AND NONDEDICATED RESOURCES

1993 WHITEBOOK: 12/19/93
RUN DATE: 01/19/94

1993 WATER YEAR
ENERGY IN AVERAGE MEGAWATTS

2003- 4 OPERATING YEAR

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
NONDEDICATED RESOURCES															
53 LG THM, CENTRALIA GRY HBR	49	49	49	49	49	49	49	49	49	49	49	32	44	49	47
54 NON-UTILITY GENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 SM TH & MISC, DIESEL CIDFL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56 CONT OUT,NO WASCO TO PSP&L	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
57 CONT OUT,OTHER TO PSP&L,SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 TOTAL NONDEDICATED RES	46	46	46	46	46	46	46	46	46	46	46	29	41	46	44
59 TOTAL RESOURCES	117	118	122	125	136	140	149	135	145	139	137	136	119	112	131

DATE

FILMED

5/11/94

END

