

**DOCUMENTATION FOR CHAPTER 3
REVENUE RECOVERY STUDY
SN-03 STUDY**

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Section 1
GENERATION EXPENSES

I. Introduction

This section compiles the expenses that are the basis for cost recovery in generation for the rate period.

II. Expenses

All expenses are taken directly from PBL's Financial Choices forum. Interest expense is summarized herein from the results of the generation repayment studies.

- Interest expense is calculated in the repayment studies for generation using the generation capital appropriations and BPA revenue bonds issued to Treasury at individual interest rates. Generation AFUDC is associated with BPA's direct funding of COE and Reclamation power-related capital projects.

Section 1
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TABLE 3.1

**Power Business Line Summary of Net Revenues FY 2002-2006
FY 2003 SN CRAC Initial Proposal**

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	Audited Actuals FY2002		Initial Proposal FY2003	
	(\$000)	aMW	(\$000)	aMW
1 REVENUES				
2 Total PF Sales	\$1,013,409	4,040	\$1,056,123	4,022
3 Total SLICE Sales	\$559,409	2,012	\$532,761	1,873
4 Total Pre-Subscription Sales	\$174,251	926	\$179,423	922
5 Total DSI IP Sales	\$49,728	65	\$15,993	35
6 Total IOU RL Sales	\$86,232	350	\$93,579	382
7 Long Term Sales	\$265,016	835	\$219,295	633
8 Surplus Sales	\$667,203	2,990	\$564,701	1,833
9 4(h)(10)(C) credit	\$45,600	-	\$123,671	-
10 FCCF credit	\$0	-	\$69,136	-
11 Other credits and Misc. Sales \1	\$148,603	#REF!	\$130,816	-
12 TOTAL PBL REVENUES	\$ 3,009,449	#REF!	\$2,985,497	9,701
EXPENSES				
13 PBL Internal Operations				
14 PBL EFFICIENCIES PROGRAM	\$ 2,841		\$ 3,811	
15 INFORMATION TECHNOLOGY	\$ 11,946		\$ 9,336	
GENERATION PROJECT COORDINATION (Generation Dev. & Coordination)	\$ 16,537		\$ 5,982	
17 OPERATIONS SCHEDULING	\$ 7,035		\$ 7,547	
18 OPERATIONS PLANNING	\$ 5,333		\$ 4,531	
19 SLICE IMPLEMENTATION	\$ 1,856		\$ 2,135	
20 SALES & SUPPORT	\$ 14,134		\$ 19,331	
ENERGY EFFICIENCY DEVELOPMENT (Market Development EE)	\$ 10,080		\$ 9,250	
22 ENERGY WEB	\$ -		\$ 1,000	
LEGACY CONSERVATION & LOW INCOME WEATHERIZATION	\$ 8,650		\$ 7,867	
24 MARKET TRANSFORMATION SPONSORED ENERGY INITIATIVES (TECHNOLOGY)	\$ 7,803		\$ 10,000	
25	\$ 1,713		\$ 871	
26 PUBLIC COMMUNICATION & TRIBAL LIAISON	\$ 1,967		\$ 3,228	
27 STRATEGY, FINANCE & RISK MGMT	\$ 8,832		\$ 9,380	
28 HUMAN RESOURCE MGMT	\$ 4,951		\$ 2,636	
29 CONSERVATION SUPPORT (see line 22)	\$ 7,887		\$ 7,283	
30 Sub-Total	\$ 111,565		\$ 104,188	
31				
32 Corporate Overhead				
33 SHARED SERVICES	\$ 21,482		\$ 16,100	
34 CORPORATE G&A	\$ 22,392		\$ 25,700	
35 Sub-Total	\$ 43,874		\$ 41,800	
36				
37 Power Purchases				
38 CANADIAN ENTITLEMENT	\$ 1,351		\$ 2,050	
39 HEDGING/MITIGATION	\$ 5,644		\$ 4,400	
40 OTHER POWER PURCHASES	\$ 301,710		\$ 177,162	557
41 CONSERVATION LOAD REDUCTION (originally in line 16)	\$ -		\$ -	
42 Sub-Total	\$ 308,705		\$ 183,612	557
43				
44 Augmentation				

60	Transmission Acquisition				
61	TBL TRANSMISSION & ANCILLARY SERVICES	\$	142,035	\$	127,000
62	3RD PARTY GTA WHEELING	\$	37,589	\$	40,000
63	3RD PARTY TRANS & ANCILLARY SVCS	\$	888	\$	500
64	RESERVE & OTHER SERVICES	\$	9,440	\$	10,000
65	TELEMETERING/EQUIP REPLACEMT	\$	34	\$	1,600
66	Sub-Total	\$	189,986	\$	179,100
67					
68	Civil Service Retirement Payment	\$	27,600	\$	17,600
69					
70	Terminated Projects				
71	TROJAN O&M	\$	110	\$	9,930
72	WNP-1&3 O&M	\$	5	\$	41
73	Sub-Total	\$	115	\$	9,971
74					
75	Public Benefits - Fish & Wildlife				
76	FISH & WILDLIFE	\$	137,085	\$	139,000
77	F&W HIGH PRIORITY ACTION PROJECTS	\$	7,091	\$	15,000
78	Sub-Total	\$	144,176	\$	154,000
79					
80	Public Benefits - Conservation				
81	CONSERVATION & RENEWABLE DISCOUNT	\$	35,226	\$	37,000
82					
83	Public Benefits - Other				
84	PLANNING COUNCIL	\$	8,380	\$	8,500
85	USF&W LOWER SNAKE HATCHERIES	\$	14,904	\$	16,197
86	COLVILLE GENERATION SETTLEMENT	\$	21,263	\$	16,722
87	Sub-Total	\$	44,547	\$	41,419
88					
89	Non-Federal Debt Service				
90	WNP-1 DEBT SVC (Rate Case)	\$	177,704	\$	167,856
	COLUMBIA GENERATING STATION DEBT SVC				
91	(Rate Case)	\$	197,442	\$	244,980
92	WNP-3 DEBT SVC (Rate Case)	\$	153,720	\$	152,993
93	TROJAN DEBT SVC	\$	2,562	\$	9,954
94	CONSERVATION DEBT SVC	\$	3,847	\$	5,342
95	L-T GEN PROJ DEBT SVC (COWLITZ FALLS)	\$	12,408	\$	12,410
96	ENW DEBT REASSIGNMENT	\$	-	\$	-
97	Sub-Total	\$	547,683	\$	593,535
98					
99	Depreciation				
100	DEPRECIATION	\$	93,290	\$	95,800
101					
102	Amortization				
103	AMORTIZATION	\$	80,874	\$	81,500
104					
105	Net Interest				
106	NET INTEREST	\$	201,583	\$	186,988
107					
108	Misc Income Deductions				
109	MISC INCOME DEDUCTIONS (e.g. Bad Debt, Other Expense)	\$	52,900	\$	5,230
145	Total Expenses Forecast	\$	3,399,924	\$	3,176,744
147	PBL NET REVENUE	\$	(390,475)	\$	(191,247)

11 Other credits and Misc. Sales includes: Total Ancillary & Reserve services, Colville settlement, Crops & Bureau Credits, Slice True-up forecast, Green Tage, EE & Misc, and Aluminum Hedging

(Continued)

Power Business Line Summary of Net Revenues FY 2002-2006
FY 2003 SN CRAC Initial Proposal

	Initial Proposal FY2004		Initial Proposal FY2005	
	(\$000)	aMW	(\$000)	aMW
1 REVENUES				
2 Total PF Sales	\$1,074,242	4,219	\$1,094,585	4,238
3 Total SLICE Sales	\$516,767	2,231	\$514,960	2,173
4 Total Pre-Subscription Sales	\$185,349	942	\$187,927	956
5 Total DSI IP Sales	\$102,525	351	\$101,942	350
6 Total IOU RL Sales	\$94,105	383	\$93,477	382
7 Long Term Sales	\$152,426	422	\$133,002	371
8 Surplus Sales	\$559,770	2,513	\$569,880	2,631
9 4(h)(10)(C) credit	\$66,915	-	\$66,770	-
10 FCCF credit	\$2,942	-	\$1,462	-
11 Other credits and Misc. Sales Y1	\$161,884	-	\$179,832	-
12 TOTAL PBL REVENUES	\$ 2,916,926	11,062	\$2,943,836	11,100
EXPENSES				
13 PBL Internal Operations				
14 PBL EFFICIENCIES PROGRAM	\$ 2,777		\$ 3,327	
15 INFORMATION TECHNOLOGY GENERATION PROJECT COORDINATION (Generation Dev. & 16 Coordination)	\$ 10,010		\$ 10,182	
17 OPERATIONS SCHEDULING	\$ 6,001		\$ 6,038	
18 OPERATIONS PLANNING	\$ 7,905		\$ 8,292	
19 SLICE IMPLEMENTATION	\$ 4,838		\$ 5,054	
20 SALES & SUPPORT	\$ 2,128		\$ 2,072	
ENERGY EFFICIENCY DEVELOPMENT (Market Development 21 EE)	\$ 17,862		\$ 17,500	
22 ENERGY WEB	\$ 9,250		\$ 9,250	
LEGACY CONSERVATION & LOW 23 INCOME WEATHERIZATION	\$ 1,000		\$ 1,000	
24 MARKET TRANSFORMATION	\$ 7,850		\$ 7,850	
SPONSORED ENERGY INITIATIVES (TECHNOLOGY) 25 PUBLIC COMMUNICATION & TRIBAL 26 LIAISON	\$ 10,000		\$ 10,000	
27 STRATEGY, FINANCE & RISK MGMT	\$ 1,000		\$ 1,000	
28 HUMAN RESOURCE MGMT	\$ 3,039		\$ 3,100	
CONSERVATION SUPPORT (see line 29 22)	\$ 7,860		\$ 8,017	
30 Sub-Total	\$ 2,166		\$ 2,209	
31	\$ 6,121		\$ 6,430	
32 Corporate Overhead				
33 SHARED SERVICES	\$ 19,400		\$ 20,600	
34 CORPORATE G&A	\$ 26,300		\$ 26,600	
35 Sub-Total	\$ 45,700		\$ 47,200	
36				
37 Power Purchases				
38 CANADIAN ENTITLEMENT	\$ 2,111		\$ 2,174	
39 HEDGING/MITIGATION	\$ 3,000		\$ 3,000	
40 OTHER POWER PURCHASES	\$ 74,516	239	\$ 61,795	203
41 CONSERVATION LOAD REDUCTION (originally in line 16)				
42 Sub-Total	\$ 79,627	239.3674671	\$ 66,969	203
43				
44 Augmentation				

48	Residential Exchange				
	RES EXCHANGE/IOU SETTLEMENT				
49	PMTS	\$	143,802	\$	143,802
50					
51	Power Generation				
	COLUMBIA GENERATING STATION				
52	(WNP-2)	\$	204,086	\$	252,368
53	BUREAU OF RECLAMATION	\$	62,800	\$	64,800
54	CORPS OF ENGINEERS	\$	140,400	\$	144,400
55	OTHER GENERATING PROJECTS	\$	31,400	\$	32,000
56	Sub-Total	\$	438,686	\$	493,568
57	Renewable Projects				
58	RENEWABLES	\$	32,100	\$	57,600
59					
60	Transmission Acquisition				
	TBL TRANSMISSION & ANCILLARY				
61	SERVICES	\$	132,000	\$	132,000
62	3RD PARTY GTA WHEELING	\$	50,000	\$	50,000
	3RD PARTY TRANS & ANCILLARY				
63	SVCS	\$	1,000	\$	1,000
64	RESERVE & OTHER SERVICES	\$	8,000	\$	8,000
65	TELEMETERING/EQUIP REPLACEMT	\$	1,600	\$	1,600
66	Sub-Total	\$	192,600	\$	192,600
67					
68	Civil Service Retirement Payment	\$	15,500	\$	13,300
69					
70	Terminated Projects				
71	TROJAN O&M	\$	12,200	\$	8,400
72	WNP-1&3 O&M	\$	-	\$	-
73	Sub-Total	\$	12,200	\$	8,400
74					
75	Public Benefits - Fish & Wildlife				
	FISH & WILDLIFE				
76	F&W HIGH PRIORITY ACTION	\$	139,000	\$	139,000
77	PROJECTS				
78	Sub-Total	\$	139,000	\$	139,000
79					
80	Public Benefits - Conservation				
	CONSERVATION & RENEWABLE				
81	DISCOUNT	\$	37,000	\$	37,000
82					
83	Public Benefits - Other				
	PLANNING COUNCIL				
84	USF&W LOWER SNAKE	\$	8,676	\$	8,850
	HATCHERIES				
85	COLVILLE GENERATION	\$	16,200	\$	17,100
	SETTLEMENT				
86		\$	19,000	\$	21,000
87	Sub-Total	\$	43,876	\$	46,950
88					
89	Non-Federal Debt Service				
	WNP-1 DEBT SVC (Rate Case)				
90	COLUMBIA GENERATING STATION	\$	174,623	\$	167,910
	DEBT SVC (Rate Case)				
91	DEBT SVC (Rate Case)	\$	233,624	\$	187,825
	WNP-3 DEBT SVC (Rate Case)				
92	WNP-3 DEBT SVC (Rate Case)	\$	149,232	\$	149,480
	TROJAN DEBT SVC				
93	TROJAN DEBT SVC	\$	9,964	\$	9,989
	CONSERVATION DEBT SVC				
94	CONSERVATION DEBT SVC	\$	5,200	\$	4,800
	L-T GEN PROJ DEBT SVC (COWLITZ				
95	FALLS)	\$	12,176	\$	12,179
	ENW DEBT REASSIGNMENT				
96	ENW DEBT REASSIGNMENT	\$	-	\$	-
97	Sub-Total	\$	584,819	\$	532,183
98					

(Continued)

Power Business Line Summary of Net Revenues FY 2002-2006

FY 2003 SN CRAC Initial Proposal

RES REVENUES		Initial Proposal FY2006	
		(\$000)	aMW
48 Residential Exchange	RES EXCHANGE/IOU SETTLEMENT		
49	PMTS	143802	
50			
51	Power Generation		
52	COLUMBIA GENERATING STATION (WNP-2)	206204	
53	Total PF Sales	1122007.796	4,280
54	Total SLICE Sales	515245.2915	2,213
55	Other Generating Projects	385998.1932	946
56	Total DSI IP Sales Sub-Total	45420483.0611	350
57	Total IOU RL Sales	94673.47282	382
58	Renewable Projects	108042.5529	316
59	Renewable Sales	564602.4699	2,563
60	4(h)(10)(C) credit	67337.33098	0
61	Transmission Acquisition	774	0
62	TBL TRANSMISSION & ANCILLARY		
63	Other credits and Misc. Sales	171749.0808	0
64	TOTAL PBL REVENUES	2913913.249	11051.36323
65	3RD PARTY CTA WHEELING	60000	
66	3RD PARTY TRANS & ANCILLARY		
67	EXPENSES	1000	
68	PERSONNEL OPERATIONS	8000	
69	EFFICIENCY IMPROVEMENT	3000	2,411
70	INFORMATION TECHNOLOGY	192000	9999
71	GENERATION PROJECT		
72	Coordination (Generator Dev. & Coordination)	11600	6059
73	Terminated Projects		8516
74	TRAIN O&M	3700	5219
75	OPERATIONS PLANNING	0	2060
76	WNP-1&3 O&M		
77	SLICE IMPLEMENTATION	3700	18062
78	SALES & SUPPORT		
79	ENERGY EFFICIENCY		
80	Public Benefits - Fish & Wildlife DEVELOPMENT (Market Development)	139000	9250
81	FISH & WILDLIFE		1000
82	F&W HIGH PRIORITY ACTION PROJECTS		
83	LEGACY CONSERVATION & LOW INCOME WEATHERIZATION	139000	7850
84	MARKET TRANSFORMATION		10000
85	Public Benefits - Conservation SPONSORED ENERGY INITIATIVES (CONSERVATION & RENEWABLE TECHNOLOGY)	37000	1000
86	PUBLIC COMMUNICATION & TRIBAL LIAISON		3162
87	Public Benefits - Other		8178
88	STRATEGIC FINANCE & RISK MGMT	9027	2254
89	HUMAN RESOURCE MGMT	18000	
90	CONSERVATION SUPPORT (see line 20)		6755
91	SETTLEMENT	21000	
92	Sub-Total	48027	101775
93	Corporate Overhead		
94	Non-Federal Debt Service		
95	SHARED SERVICES	179992	21000
96	WNP-3 DEBT SVC (Rate Case)		26900
97	CORPORATE CRA		
98	DEBT SVC (Rate Case)	211976	47900
99	WNP-3 DEBT SVC (Rate Case)	147836	
100	PROJAN DEBT SVC	10009	
101	Power Purchases	4400	2240
102	CONSERVATION DEBT SVC		
103	CANADIAN ENTITLEMENT		
104	IL-T GEN PROJ DEBT SVC (COWLITZ FIELDS)	12181	3000
105	DEBT REPURCHASES	67607.47404	246.2239909
106	CONSERVATION LOAD REDUCTION (originally in line 16)	566394	
107	Depreciation	72857.47404	246.2239909
108	Augmentation		

Section 2

PROJECTED CASH BALANCES / INTEREST CREDITS

I. Introduction

This section documents the projection of the generation interest income (credited to interest expense) to be earned during the rate period on BPA's projected cash balances and on funds attributable to generation to be returned to Treasury at year-end.

Interest credits on projected cash balances

The ToolKit model provides the risk-adjusted annual cash balances for the rate period. The latest actual interest earnings rate (5.87%), the weighted average interest rate on outstanding bonds, is multiplied by the average cash balance to determine the annual interest income. The resulting interest income is applied as a credit against interest expense in the generation Revised Revenue Test.

Interest income (repayment program calculation)

The interest income rate from 9/30/02 of 5.96% was used in repayment studies run in 11/02 to determine an interest income credit on funds collected during each year for year-end payment of amortization and interest on COE and Reclamation appropriations and bonds BPA issued to Treasury. The repayment program assumes that cash accumulates at a uniform rate throughout the year, except for interest paid on bonds issued to Treasury at mid-year.

TABLE 3.2

**Interest Income from Projected Cash Balances - Generation Only
Revenues From Modified Rates
(\$ thousands)**

	2002	2003	2004	2005	2006
1 SOY Cash Balance	507,302	50,400	(98,335)	(38,778)	71,567
2 EOY Cash Balance	50,400	(108,500)	(46,000)	58,300	194,800
3 Average Cash Balance		(29,050)	(72,168)	9,761	133,184
4 Interest Income Rate	5.87%	5.87%	5.87%	5.87%	5.87%
5 Annual Interest Income 1/		10,165	7,222	13,267	20,717
1/ Includes credit from repayment study of:		11,870	11,458	12,694	12,899

Section 3

INTEREST RATES FOR TREASURY SOURCES OF CAPITAL AND PRICE DEFLATORS

Introduction

Interest rates on bonds issued by BPA to Treasury and interest rates for COE and Reclamation appropriations are used in development of repayment studies and projections of Federal interest expense in revenue requirements. Price deflators are used for developing spending levels in revenue requirements.

WEFA

The WEFA Group (WEFA) provides Treasury yield curve forecasts that BPA uses to calculate projections of interest during construction (IDC) on CWIP balances for FCRPS investments funded by appropriations. These forecasts are also used to project interest rates on bonds issued to Treasury and on appropriated investments as plant is placed in service. WEFA is also the source of price deflators that BPA treats as escalators for purposes of developing spending levels. The price deflators are derived from projections of Gross Domestic Product (GDP). The GDP consists of the sum of consumption, investment, government purchases and net exports, excluding transfers to foreigners.

Interest Rate Projections

Projected interest rates for BPA bonds issued to Treasury are based on WEFA's yield curve projections of Treasury market rates, plus a markup of 32 to 90 basis points depending on the length of time to maturity. The markup estimate reflects an interagency agreement that Treasury price BPA bonds at a level comparable to securities (bonds) issued by U.S. government corporations. The markup estimate reflects the average basis point markup on recent intermediate and long-term bonds issued by BPA. As noted in the attached transmittal memo

documenting the interest rates in this revenue requirement study, for the FY 2003-2006 period the 30-year rate reflects a markup of 90 basis points.

Interest rates on projected capital investments funded by appropriations are also based on WEFA's projections of Treasury yield curves. The yield curves used for appropriations do not include the 32 to 90 basis point markup.

Deflators

The current and cumulative price deflator used to escalate midyear dollars are derived from the fiscal and calendar year price deflators provided by WEFA. They are calculated as follows:

$$[(FY_1/100) \times 0.5] + 1 = \text{Cumulative Price Deflator}_1$$

The fiscal year GDP price deflator for the current year is divided by one hundred and multiplied by one half. The result, when added to one, yields the cumulative price deflator for the first year.

$$[1 + (FY_t/100)] \times \text{Cumulative Price Deflator}_{t-1} = \text{Cumulative Price Deflator}_t, \text{ when } t > 1$$

The fiscal year GDP price deflator for a future year is divided by one hundred and added to one. The result, when multiplied by the cumulative price deflator from the previous year, yields the cumulative price deflator for the each successive year.

To the extent deflators are used in developing the FY 2003-2006 spending levels they are based on the price deflators from the Second Quarter 2002 WEFA forecast.

BONNEVILLE POWER ADMINISTRATION

InterOffice Memo

Date: August 9, 2002

To: See Attached

From: Robert Mealey, Financial Economist - CMD
Claudia Andrews, Corporate Risk Manager - C

Subject: FY 2002. Q3 Price Deflator and BPA Long-Term Borrowing Rate Projections

Attached are updated Third Quarter FY 2002 price deflator and BPA borrowing rate projections for the period 1997 to 2019. These projections are based on The WEFA Group's (WEFA) CY 2002 Second Quarter Long-Term Economic Outlook.

Table 1 contains updated projections for BPA's long-term Treasury borrowing rates. WEFA projections of 30-year U.S. Government bond rates are shown in Column A. Column B provides these projections for fiscal years. Column C summarizes BPA Treasury borrowing rates for fiscal years. BPA's borrowing rate projections include a 90 basis point markup over the 30 year T-bond rate. The markup is an average value taken from recently issued long-term Treasury bonds and BPA Treasury analyst adjustments. Table 2 compares BPA's FY 2002.Q3 borrowing rate forecast with its FY 1998.Q3 forecast. Tables 3 and 4 provide borrowing rate projections for 15 and 20-year U.S. Treasury rates. Table 5 summarizes projections of BPA's borrowing rate over the entire Treasury yield curve.

The Gross Domestic Product (GDP) price deflator is an important measure of inflation. GDP deflator forecasts are shown in Table 6. Column A summarizes the relative growth in the GDP price deflator over the forecast period. The GDP deflator forecast in BPA fiscal years is shown in Column B. Column C lists the cumulative price deflator index by fiscal year. This index assumes 1992 as the base year and is adjusted to express fiscal year dollar values as mid-year dollar values. GDP may be viewed as the goods and services produced by both domestic and foreign capital and labor within the United States. Major components of GDP include: total consumption, investment, government purchases, and net exports. The government's method for calculating GDP changed in 1996. Instead of fixed weights the new measure of GDP is based on a chain-weighted methodology. This means real GDP calculations will reflect not just the changing mix of the components in GDP, but also the relative price changes in these components. Table 7 compares the FY 2002.Q3 Quarter Inflation Forecast with BPA's FY 1998.Q3 forecast.

Please forward to the appropriate people in your group. Your assistance in identifying addressees for future forecasts is appreciated. If you have any questions, give me a call at (503) 230-5389.

RMealey:\rm:x5389 (W:\CM\FPD\BW021898.doc)

TABLE 1

30 YEAR TREASURY YIELDS
FY 2002.Q3 FORECAST OF BPA TREASURY BORROWING RATES

Calendar/Fiscal Years 1997 - 2019

<u>YEAR</u>	(A)	(B)	(C)
	<u>BOND RATE 1/ Calendar Year</u>	<u>BOND RATE Fiscal Year</u>	<u>BPA RATE 2/ Fiscal Year</u>
1997	6.60%	6.63%	7.53%
1998	5.58%	5.84%	6.74%
1999	5.86%	5.79%	6.69%
2000	5.94%	5.92%	6.82%
2001	5.49%	5.60%	6.50%
2002	5.74%	5.68%	6.58%
2003	6.23%	6.11%	7.01%
2004	6.30%	6.28%	7.18%
2005	6.17%	6.20%	7.10%
2006	6.19%	6.19%	7.09%
2007	6.20%	6.20%	7.10%
2008	6.21%	6.21%	7.11%
2009	6.23%	6.23%	7.13%
2010	6.27%	6.26%	7.16%
2011	6.31%	6.30%	7.20%
2012	6.45%	6.42%	7.32%
2013	6.65%	6.60%	7.50%
2014	6.90%	6.84%	7.74%
2015	7.03%	7.00%	7.90%
2016	7.27%	7.21%	8.11%
2017	7.46%	7.41%	8.31%
2018	7.71%	7.65%	8.55%
2019	7.83%	7.80%	8.70%

1/ Source: The WEFA Group, U.S. Long-Term Economic Outlook, First Quarter 1999, Volume 1, Trend/Moderate Growth Scenario. Average market yield on 30-year Treasury bonds.

TABLE 2

**30 YEAR TREASURY YIELDS
FY 2002.Q3 COMPARISON OF BPA BORROWING RATE FORECASTS**

Fiscal Years 1997 - 2019

	(A)	(B)	(C)
	FY 2002.Q3 FORECAST	FY 1998.Q3 FORECAST	DIFFERENCE
<u>YEAR</u>	<u>BPA RATE 1/</u>	<u>BPA RATE 2/</u>	<u>(A-B)</u>
1997	7.53%	7.53%	0.00%
1998	6.74%	7.00%	-0.27%
1999	6.69%	7.21%	-0.52%
2000	6.82%	7.30%	-0.48%
2001	6.50%	7.15%	-0.65%
2002	6.58%	7.05%	-0.48%
2003	7.01%	6.92%	0.09%
2004	7.18%	6.88%	0.30%
2005	7.10%	6.85%	0.25%
2006	7.09%	6.81%	0.27%
2007	7.10%	6.77%	0.32%
2008	7.11%	6.74%	0.37%
2009	7.13%	6.70%	0.43%
2010	7.16%	6.66%	0.50%
2011	7.20%	6.65%	0.55%
2012	7.32%	6.65%	0.67%
2013	7.50%	6.64%	0.86%
2014	7.74%	6.64%	1.10%
2015	7.90%	6.64%	1.26%
2016	8.11%	6.64%	1.47%
2017	8.31%	6.64%	1.68%
2018	8.55%	6.63%	1.91%
2019	8.70%	6.63%	2.07%

1/ Forecast prepared May 19, 1999. Source: The WEFA Group, U.S. Long-Term Economic Outlook, First Quarter, 1999, Volume 1, Trend/Moderate Growth Scenario. Average market yield on 30-year,

TABLE 3

15 YEAR TREASURY YIELDS
FY 2002.Q3 FORECAST OF BPA TREASURY BORROWING RATES

Calendar/Fiscal Years 1997 - 2019

	(A)	(B)	(C)
<u>YEAR</u>	<u>BOND RATE 1/ Calendar Year</u>	<u>BOND RATE Fiscal Year</u>	<u>BPA RATE 2/ Fiscal Year</u>
1997	6.41%	6.44%	7.12%
1998	5.34%	5.61%	6.30%
1999	5.70%	5.61%	6.30%
2000	6.01%	5.93%	6.62%
2001	5.14%	5.36%	6.04%
2002	5.45%	5.37%	6.06%
2003	6.01%	5.87%	6.56%
2004	6.11%	6.08%	6.77%
2005	5.96%	6.00%	6.69%
2006	6.00%	5.99%	6.68%
2007	6.03%	6.02%	6.71%
2008	6.05%	6.04%	6.73%
2009	6.08%	6.07%	6.76%
2010	6.13%	6.12%	6.80%
2011	6.18%	6.16%	6.85%
2012	6.32%	6.29%	6.97%
2013	6.53%	6.48%	7.17%
2014	6.80%	6.73%	7.42%
2015	6.93%	6.89%	7.58%
2016	7.18%	7.12%	7.81%
2017	7.39%	7.33%	8.02%
2018	7.64%	7.58%	8.27%
2019	7.76%	7.73%	8.42%

1/ Source: The WEFA Group, U.S. Long-Term Economic Outlook, First Quarter 1999, Volume 1, Trend/Moderate Growth Scenario. Average market yield on 15-year Treasury bonds.

TABLE 4

**20 YEAR TREASURY YIELDS
FY 2002.Q3 FORECAST OF BPA TREASURY BORROWING RATES**

Calendar/Fiscal Years 1997 - 2019

	(A)	(B)	(C)
<u>YEAR</u>	<u>BOND RATE 1/ Calendar Year</u>	<u>BOND RATE Fiscal Year</u>	<u>BPA RATE 2/ Fiscal Year</u>
1997	6.48%	6.50%	7.32%
1998	5.42%	5.68%	6.50%
1999	5.75%	5.67%	6.49%
2000	5.99%	5.93%	6.75%
2001	5.26%	5.44%	6.26%
2002	5.55%	5.47%	6.29%
2003	6.09%	5.95%	6.77%
2004	6.17%	6.15%	6.97%
2005	6.03%	6.07%	6.89%
2006	6.06%	6.05%	6.87%
2007	6.09%	6.08%	6.90%
2008	6.10%	6.10%	6.92%
2009	6.13%	6.12%	6.94%
2010	6.18%	6.16%	6.98%
2011	6.22%	6.21%	7.03%
2012	6.37%	6.33%	7.15%
2013	6.57%	6.52%	7.34%
2014	6.83%	6.77%	7.59%
2015	6.96%	6.93%	7.75%
2016	7.21%	7.15%	7.97%
2017	7.41%	7.36%	8.18%
2018	7.67%	7.60%	8.42%
2019	7.78%	7.75%	8.57%

1/ Source: The WEFA Group, U.S. Long-Term Economic Outlook, Second Quarter 2002, Volume Trend\Moderate Growth Scenario. Average market yield on 20-year Treasury bonds.

Table 5
2002.Q3 BPA TREASURY BORROWING RATE YIELD CURVE FORECAST 1/
 FORECAST PREPARED MAY 19, 1999

Fiscal Years 1997 - 2019

MATURITY

<u>Year</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	<u>4 Year</u>	<u>5 Year</u>	<u>6 Year</u>	<u>7 Year</u>	<u>8 Year</u>	<u>9 Year</u>	<u>10 Year</u>	<u>11 Year</u>	<u>12 Year</u>	<u>13 Year</u>	<u>14 Year</u>	<u>15 Year</u>	<u>16 Year</u>
1997	5.92	6.18	6.45	6.54	6.64	6.72	6.81	6.85	6.89	6.93	6.97	7.01	7.05	7.09	7.12	7.16
1998	5.52	5.64	5.75	5.80	5.84	5.94	6.03	6.05	6.07	6.09	6.13	6.17	6.21	6.26	6.30	6.34
1999	5.39	5.58	5.77	5.82	5.87	6.00	6.13	6.12	6.11	6.10	6.14	6.18	6.22	6.26	6.30	6.33
2000	6.17	6.29	6.41	6.42	6.42	6.50	6.58	6.55	6.52	6.49	6.52	6.54	6.57	6.59	6.62	6.64
2001	4.46	4.72	4.99	5.18	5.38	5.53	5.69	5.74	5.78	5.83	5.87	5.92	5.96	6.00	6.04	6.09
2002	3.19	3.84	4.49	4.79	5.09	5.31	5.53	5.63	5.73	5.83	5.87	5.92	5.97	6.01	6.06	6.11
2003	4.49	4.99	5.49	5.67	5.84	6.00	6.16	6.22	6.29	6.35	6.39	6.43	6.48	6.52	6.56	6.60
2004	5.77	5.96	6.15	6.22	6.29	6.39	6.49	6.52	6.55	6.57	6.61	6.65	6.69	6.73	6.77	6.81
2005	5.90	6.01	6.11	6.17	6.22	6.32	6.42	6.44	6.46	6.49	6.53	6.57	6.61	6.65	6.69	6.73
2006	5.83	5.94	6.05	6.12	6.19	6.29	6.39	6.42	6.45	6.48	6.52	6.56	6.60	6.64	6.68	6.71
2007	5.83	5.94	6.06	6.14	6.21	6.32	6.42	6.45	6.49	6.52	6.56	6.59	6.63	6.67	6.71	6.75
2008	5.85	5.96	6.08	6.16	6.24	6.35	6.45	6.48	6.51	6.54	6.58	6.62	6.65	6.69	6.73	6.77
2009	5.85	5.98	6.10	6.18	6.26	6.37	6.48	6.51	6.55	6.58	6.61	6.65	6.69	6.72	6.76	6.80
2010	5.86	5.99	6.12	6.21	6.30	6.41	6.52	6.55	6.59	6.63	6.66	6.70	6.73	6.77	6.80	6.84
2011	5.85	5.99	6.13	6.23	6.33	6.44	6.56	6.60	6.64	6.68	6.71	6.75	6.78	6.82	6.85	6.89
2012	5.91	6.07	6.24	6.34	6.45	6.57	6.68	6.72	6.76	6.80	6.83	6.87	6.90	6.94	6.97	7.01
2013	6.04	6.23	6.41	6.52	6.64	6.76	6.88	6.92	6.96	7.00	7.03	7.06	7.10	7.13	7.17	7.20
2014	6.29	6.48	6.67	6.78	6.90	7.01	7.13	7.17	7.21	7.25	7.28	7.32	7.35	7.38	7.42	7.45
2015	6.42	6.62	6.82	6.94	7.06	7.18	7.30	7.34	7.38	7.42	7.45	7.48	7.51	7.55	7.58	7.61
2016	6.64	6.84	7.05	7.17	7.29	7.41	7.52	7.56	7.60	7.64	7.68	7.71	7.74	7.77	7.81	7.84
2017	6.84	7.05	7.26	7.38	7.51	7.62	7.74	7.78	7.82	7.87	7.90	7.93	7.96	7.99	8.02	8.05
2018	7.07	7.28	7.50	7.63	7.76	7.88	7.99	8.03	8.07	8.11	8.14	8.17	8.21	8.24	8.27	8.30
2019	7.15	7.39	7.62	7.76	7.89	8.01	8.13	8.18	8.22	8.26	8.29	8.32	8.35	8.38	8.42	8.45

1/ Based on The WEFA Group, U.S. Long-Term Economic Outlook, Second Quarter 2002, Volume 1, Trend\Moderate Growth Scenario. Treasury markup ranges from 32 to 90 bp.

<u>20 Year</u>	<u>21 Year</u>	<u>22 Year</u>	<u>23 Year</u>	<u>24 Year</u>	<u>25 Year</u>	<u>26 Year</u>	<u>27 Year</u>	<u>28 Year</u>	<u>29 Year</u>	<u>30 Year</u>	<u>50 Year</u>	<u>Year</u>
7.32	7.34	7.36	7.38	7.40	7.42	7.44	7.46	7.48	7.50	7.53	7.53	1997
6.50	6.53	6.55	6.57	6.60	6.62	6.64	6.67	6.69	6.71	6.74	6.74	1998
6.49	6.51	6.53	6.55	6.57	6.59	6.61	6.63	6.65	6.67	6.69	6.69	1999
6.75	6.75	6.76	6.77	6.78	6.78	6.79	6.80	6.81	6.81	6.82	6.82	2000
6.26	6.28	6.31	6.33	6.36	6.38	6.40	6.43	6.45	6.48	6.50	6.50	2001
6.29	6.32	6.35	6.38	6.41	6.44	6.46	6.49	6.52	6.55	6.58	6.58	2002
6.77	6.79	6.82	6.84	6.87	6.89	6.91	6.94	6.96	6.98	7.01	7.01	2003
6.97	6.99	7.01	7.03	7.05	7.08	7.10	7.12	7.14	7.16	7.18	7.18	2004
6.89	6.91	6.93	6.95	6.97	6.99	7.02	7.04	7.06	7.08	7.10	7.10	2005
6.87	6.89	6.92	6.94	6.96	6.98	7.00	7.02	7.04	7.06	7.09	7.09	2006
6.90	6.92	6.94	6.96	6.98	7.00	7.02	7.04	7.06	7.08	7.10	7.10	2007
6.92	6.94	6.95	6.97	6.99	7.01	7.03	7.05	7.07	7.09	7.11	7.11	2008
6.94	6.96	6.98	7.00	7.02	7.03	7.05	7.07	7.09	7.11	7.13	7.13	2009
6.98	7.00	7.02	7.04	7.05	7.07	7.09	7.11	7.12	7.14	7.16	7.16	2010
7.03	7.05	7.06	7.08	7.10	7.11	7.13	7.15	7.17	7.18	7.20	7.20	2011
7.15	7.17	7.18	7.20	7.22	7.23	7.25	7.27	7.28	7.30	7.32	7.32	2012
7.34	7.35	7.37	7.39	7.40	7.42	7.44	7.45	7.47	7.48	7.50	7.50	2013
7.59	7.60	7.62	7.63	7.65	7.66	7.68	7.69	7.71	7.72	7.74	7.74	2014
7.75	7.76	7.78	7.79	7.81	7.82	7.84	7.85	7.87	7.88	7.90	7.90	2015
7.97	7.98	8.00	8.01	8.02	8.04	8.05	8.07	8.08	8.10	8.11	8.11	2016
8.18	8.19	8.21	8.22	8.23	8.25	8.26	8.27	8.29	8.30	8.31	8.31	2017
8.42	8.43	8.45	8.46	8.47	8.48	8.50	8.51	8.52	8.53	8.55	8.55	2018
8.57	8.58	8.60	8.61	8.62	8.64	8.65	8.66	8.67	8.69	8.70	8.70	2019

TABLE 6

**FY 2002.Q3 FORECAST OF INFLATIONARY TRENDS
CHANGE IN GROSS DOMESTIC PRODUCT PRICE DEFLATOR**

Calendar/Fiscal Year, Index = 1996

<u>YEAR</u>	(A)	(B)	(C)
	<u>CALENDAR YEAR % CHANGE 1/</u>	<u>FY 02.Q3 FISCAL YEAR % CHANGE</u>	<u>FISCAL YEAR CUMULATIVE PRICE DEFLATOR INDEX 2/ (2002 Base Year)</u>
2001	2.19%	2.21%	
2002	1.24%	1.48%	1.007
2003	2.34%	2.07%	1.028
2004	2.35%	2.35%	1.052
2005	2.33%	2.33%	1.077
2006	2.26%	2.28%	1.101
2007	2.27%	2.26%	1.126
2008	2.24%	2.25%	1.152
2009	2.26%	2.26%	1.178
2010	2.34%	2.32%	1.205
2011	2.52%	2.48%	1.235
2012	2.72%	2.67%	1.268
2013	2.80%	2.78%	1.303
2014	2.89%	2.87%	1.340
2015	2.95%	2.93%	1.380
2016	3.05%	3.02%	1.421
2017	3.15%	3.13%	1.466
2018	3.27%	3.24%	1.513
2019	3.27%	3.27%	1.563

1/ Source: WEFA Second Quarter 2002 U.S. Long-Term Economic Outlook, Gross Domestic Product Implicit Price Deflator Index, Calendar Year. Base year Index = 1996

2/ Fiscal Year Cumulative Price Deflator escalates to midyear dollars. The first year, 1994, is determined as follows: $1.012 = [(2.45\%/100)*.5] + 1$. Subsequent years use the prior Fiscal Year Cumulative Price Deflator. For example, the rate in 1995 is given by: $1.038 = [1 + (2.5\%/100)]*1.012$.

TABLE 7

**FY2002.Q3 INFLATION FORECAST COMPARISONS
GROSS DOMESTIC PRODUCT PRICE DEFLATOR INDEXES**

BPA Fiscal Year

<u>YEAR</u>	(A)	(B)	(C)
	<u>FY 02.Q3 1/ IMPLICIT PRICE DEFLATOR INDEX</u>	<u>FY 98.Q3 2/ IMPLICIT PRICE DEFLATOR INDEX</u>	<u>(A - B) DIFFERENCE</u>
2001	2.21%	2.46%	-0.25%
2002	1.48%	2.55%	-1.08%
2003	2.07%	2.74%	-0.68%
2004	2.35%	2.58%	-0.24%
2005	2.33%	2.52%	-0.19%
2006	2.28%	2.57%	-0.29%
2007	2.26%	2.62%	-0.35%
2008	2.25%	2.63%	-0.38%
2009	2.26%	2.63%	-0.38%
2010	2.32%	2.63%	-0.30%
2011	2.48%	2.63%	-0.15%
2012	2.67%	2.63%	0.04%
2013	2.78%	2.64%	0.14%
2014	2.87%	2.64%	0.23%
2015	2.93%	2.64%	0.29%
2016	3.02%	2.64%	0.39%
2017	3.13%	2.63%	0.50%
2018	3.24%	2.64%	0.60%
2019	3.27%	2.64%	0.63%

1/ Source: WEFA Second Quarter 2002 U.S. Long-Term Economic Outlook, Gross Domestic Product Implicit Price Deflator Index, Calendar Year. Base Year Index = 1996

2/ Source: WEFA, Third Quarter 1998 Long Term Economic Outlook Gross Domestic Product Implicit Price Deflator Index. Base Year Index = 1992

Section 4

PROJECTED BONDS ISSUED TO TREASURY

I. Introduction

This section documents the bonds that BPA projects it will issue to the U.S. Treasury to finance BPA capital investments and Reclamation/COE investments that will be direct-funded by BPA.

II. Issuing Bonds

BPA primarily funds capital outlays by issuing new long-term debt in the form of bonds issued to Treasury. BPA issues four types of bonds: Construction, Conservation, Fish and Wildlife/Environment, and Reclamation/COE direct - funded. Construction bonds included in the generation study are the portions of bonds that fund furniture, ADP hardware and software for PBL. (Construction bonds are also issued to fund capital expenditures of the Transmission Business Line including IT hardware and software and furniture.) Conservation bonds traditionally were issued to fund the legacy conservation program, however, now such bonds are projected to be issued to fund conservation augmentation in the FY 2003-2006 rate period. Fish and Wildlife bonds are issued to fund the capital portion of BPA's Fish and Wildlife program. BPA also issues bonds to fund Reclamation/COE generation efficiency and reliability improvements. All bonds projected for issuance have been entered into the generation repayment study.

Construction and Reclamation/COE direct funding bonds are entered in the repayment program with a maximum period to maturity of 45 years. Fish and Wildlife bonds are entered with a period to maturity of 15 years. Construction bonds are given a maturity of 35 years. Conservation augmentation has been given a maturity date of 2011 for all years, to be consistent with customer contracts.

New bonds for the cost evaluation period (FYs 2003 - 2006 are based on projected BPA and Reclamation/COE capital program outlays). Maturities reflect the average service lives of the assets. The interest rates used are in Chapter 3.

Bonneville Power Administration
Total Bonds Issued
(\$ in millions)

Date	Type	Amount Issued	Interest Rate	Term	Maturity Date	---1st Call---		Refinanced Bonds		Amortized Bonds		Call Price	Out-Stand	Interest Due	Semiannual Interest
						Date	Price	Date	Amount	Date	Amount				
9/30/1978	C	50.0	8.95%	35	2013	9/30/1983	107.64			9/30/1991	-50.0	105.53	0.0	Mar/Sep	0
6/30/1979	C	75.0	9.45%	35	2014	6/30/1984	108.10			9/30/1985/86/91	-75.0	various	0.0	Dec/Jan	0
9/30/1979	C	50.0	9.90%	35	2014	9/30/1984	108.49			9/30/1985	-50.0	108.20	0.0	Mar/Sep	0
9/30/1980	C	115.0	13.00%	35	2015	9/30/1985	111.14			9/30/1985	-115.0	111.14	0.0	Mar/Sep	0
9/30/1981	C	175.0	16.60%	35	2016	9/30/1986	114.23			9/30/1986	-175.0	114.23	0.0	Mar/Sep	0
12/31/1981	C	50.0	14.40%	35	2016	12/31/1986	112.34			2/28/1987	-50.0	112.34	0.0	Jun/Dec	0
4/30/1982	C	100.0	14.40%	35	2017	4/30/1987	112.34			4/30/1987	-100.0	112.34	0.0	Oct/Apr	0
7/31/1982	C	85.0	14.15%	35	2017	7/31/1987	112.13	7/31/1987	-85.0			112.13	0.0	Jan/Jul	0
11/30/1982	C	40.0	10.85%	35	2017	11/30/1987	109.30	2/29/1988	-40.0			109.30	0.0	May/Nov	0
6/30/1983	C	30.0	11.70%	35	2018	6/30/1988	110.03			11/30/1988	-30.0	110.03	0.0	Dec/Jan	0
9/30/1983	C	45.0	12.25%	35	2018	9/30/1988	110.50			9/30/1988	-45.0	110.50	0.0	Mar/Sep	0
9/30/1983	K	140.0	12.20%	20	2003	9/30/1988	109.15			9/30/1988	-140.0	109.15	0.0	Mar/Sep	0
11/30/1983	C	30.0	12.30%	35	2018	11/30/1988	110.54			11/30/1988	-30.0	110.54	0.0	May/Nov	0
9/30/1984	C	60.0	13.05%	35	2019	9/30/1989	111.19			9/30/1989	-60.0	111.19	0.0	Mar/Sep	0
9/30/1984	K	150.0	13.05%	20	2004	9/30/1989	109.79	9/30/1989	-120.0			109.79	0.0	Mar/Sep	0
6/30/1985	C	100.0	11.25%	45	2030	6/30/1990	110.00			6/30/1990	-100.0	110.00	0.0	Dec/Jan	0
9/30/1985	K	50.0	10.15%	5	1990	none	none			9/30/1990	-50.0	none	0.0	Mar/Sep	0
3/31/1986	C	100.0	8.15%	10	1996	none	none			3/31/1996	-100.0	none	0.0	Sep/Mar	0
3/31/1986	K	50.0	8.15%	10	1996	none	none			3/31/1996	-50.0	none	0.0	Sep/Mar	0
3/31/1986	K	50.0	7.80%	5	1991	none	none			3/31/1991	-50.0	none	0.0	Sep/Mar	0
6/30/1986	C	300.0	8.95%	45	2031	6/30/1991	107.96	8/31/92,5/31/94	-240.0	9/30/1991/94	-60.0	various	0.0	Dec/Jan	0
4/30/1987	C	100.0	9.30%	45	2032	4/30/1992	108.27	4/30/1992	-100.0			108.27	0.0	Oct/Apr	0
4/30/1987	K	75.0	9.30%	20	2007	4/30/1992	106.98	7/31/1992	-75.0			106.98	0.0	Oct/Apr	0
6/30/1987	C	100.0	8.35%	5	1992	none	none			6/30/1992	-100.0	none	0.0	Dec/Jan	0
6/30/1987	K	50.0	8.35%	5	1992	none	none			6/30/1992	-50.0	none	0.0	Dec/Jan	0
7/31/1987	C	95.0	9.55%	30	2017	7/31/1992	107.96			9/30/1992	-95.0	107.96	0.0	Jan/Jul	0
7/31/1987	C	50.0	9.55%	45	2032	7/31/1992	108.49			7/31/1993	-50.0	108.49	0.0	Jan/Jul	0
2/29/1988	C	150.0	9.50%	45	2033	2/28/1993	108.44	10/31/93,5/31/94	-150.0			various	0.0	Aug/Feb	0
2/29/1988	C	43.7	9.50%	30	2018	2/28/1993	107.92			9/30/1993	-43.7	107.92	0.0	Aug/Feb	0
4/30/1988	K	90.0	9.90%	20	2008	4/30/1993	107.43			5/31/1993	-90.0	107.43	0.0	Oct/Apr	0
6/30/1988	C	40.0	9.90%	45	2033	6/30/1993	108.80			6/30/1993	-40.0	108.80	0.0	Dec/Jan	0
5/31/1989	F	25.0	8.95%	10	1999	none	none			5/31/1999	-25.0	none	0.0	Nov/May	0
5/31/1989	C	75.0	8.95%	10	1999	none	none	5/31/1999	-26.2	5/31/1999	-48.8	none	0.0	Nov/May	0
7/31/1989	K	40.0	8.55%	20	2009	none	none						40.0	Jan/Jul	1,710,000
9/30/1989	K	66.0	8.60%	6	1995	none	none			9/30/1995	-66.0	none	0.0	Mar/Sep	0
9/30/1989	K	66.0	8.65%	13	2002	none	none			9/30/2002	-66.0	none	0.0	Mar/Sep	0
1/31/1990	C	50.0	9.25%	40	2030	1/31/2000	106.94	1/31/2000	-50.0			106.94	0.0	Jul/Jan	0
2/28/1991	C	60.0	7.55%	4	1995	none	none			2/28/1995	-60.0	none	0.0	Aug/Feb	0
5/31/1991	F	50.0	7.95%	5	1996	none	none			5/31/1996	-50.0	none	0.0	Nov/May	0
4/30/1992	C	150.0	8.80%	40	2032	4/30/1997	107.70	8/31/1997	-103.3	7/31/1997	-46.7	107.70	0.0	Oct/Apr	0
4/30/1992	C	50.0	7.00%	5	1997	none	none			4/30/1997	-50.0	none	0.0	Oct/Apr	0
4/30/1992	C	80.0	6.20%	3	1995	none	none			4/30/1995	-80.0	none	0.0	Oct/Apr	0
4/30/1992	C	28.3	7.00%	5	1997	none	none			4/30/1997	-28.3	none	0.0	Oct/Apr	0
7/31/1992	C	150.0	8.13%	40	2032	7/31/1997	107.11	4/30 & 5/31/98	-138.2	5/31/1997	-11.8	107.11	0.0	Jan/Jul	0
7/31/1992	K	100.0	7.14%	15	2007	7/31/1997	104.76	9/30/1998	-100.0			104.28	0.0	Jan/Jul	0
7/31/1992	K	80.2	5.80%	5	1997	none	none			7/31/1997	-80.2	none	0.0	Jan/Jul	0
8/31/1992	C	107.8	6.60%	8	2000	none	none	8/31/2000	-15.3	8/31/2000	-92.5	none	0.0	Feb/Aug	0
8/31/1992	C	107.7	7.25%	15	2007	8/31/1997	104.83	8/31/1998	-107.7				0.0	Feb/Aug	0
10/31/1992	C	50.0	6.05%	5	1997	none	none			10/31/1997	-50.0	none	0.0	Apr/Oct	0
10/31/1992	K	50.0	8.05%	20	2012	10/31/1997	106.04			5/31/1998	-50.0	106.04	0.0	Apr/Oct	0
10/31/1992	C	100.0	8.35%	40	2032	10/31/1997	107.31			5/31/1998	-100.0	107.31	0.0	Apr/Oct	0

2/28/1993	F	20.0	6.95%	15	2008	2/28/1998	104.63			9/30/2002	-20.0	102.78	0.0	Aug/Feb	0
2/28/1993	K	50.0	7.40%	20	2013	2/28/1998	105.55	9/30/1998	-50.0				0.0	Aug/Feb	0
2/28/1993	C	130.0	7.80%	40	2033	2/28/1998	106.83	5/31/1998	-130.0				0.0	Aug/Feb	0
4/30/1993	C	100.0	7.50%	40	2033	4/30/1998	106.56	8/31/1998	-100.0				0.0	Oct/Apr	0
8/31/1993	C	110.0	6.95%	40	2033	8/31/1998	106.08						110.0	Feb/Aug	3,822,500
8/31/1993	K	40.0	6.75%	20	2013	8/31/1998	105.06			9/30/2002	-40.0	103.71	0.0	Feb/Aug	0
10/31/1993	C	108.4	6.85%	40	2033	10/31/1998	105.99						108.4	Apr/Oct	3,712,700
10/31/1993	C	50.0	6.85%	40	2033	10/31/1998	105.99						50.0	Apr/Oct	1,712,500
1/31/1994	K	50.0	6.75%	20	2014	1/31/1999	105.06			9/30/2002	-36.7	104.05	13.3	Jul/Jan	447,694
1/31/1994	C	50.0	7.05%	40	2034	1/31/1999	106.17						50.0	Jul/Jan	1,762,500
5/31/1994	C	50.0	8.20%	40	2034	5/31/1999	107.18			6/30/1999	-50.0	107.18	0.0	Nov/May	0
5/31/1994	K	50.0	7.10%	4	1998	5/31/1995	100.00	5/31/98	-37.7	9/30/1996	-12.3	100.00	0.0	Nov/May	0
5/31/1994	C	97.1	7.10%	4	1998	5/31/1995	100.00			9/30/1995	-97.1	100.00	0.0	Nov/May	0
9/30/1994	C	55.0	7.65%	5	1999	9/30/1995	100.00			9/30/1995	-55.0	100.00	0.0	Mar/Sep	0
9/30/1994	F	20.0	7.65%	5	1999	9/30/1995	100.00			9/30/1995	-20.0	100.00	0.0	Mar/Sep	0
1/31/1995	C	55.0	8.35%	6	2001	1/31/1996	100.00			3/31/1996	-55.0	100.00	0.0	Jul/Jan	0
5/31/1995	K	85.0	7.50%	20	2015	5/31/2000	105.63			5/31/2000	-85.0	105.63	0.0	Nov/May	0
5/31/1995	B	35.0	7.50%	20	2015	5/31/2000	105.63			9/30/2001	-35.0	105.25	0.0	Nov/May	0
7/31/1995	C	50.0	7.70%	30	2025	7/31/2000	106.42			9/30/2002	-15.0	105.90	35.0	Jan/Jul	1,346,576
8/31/1995	C	65.0	7.70%	30	2025	8/31/2000	106.42			9/30/2002	-65.0	106.90	0.0	Feb/Aug	0
8/31/1995	F	35.0	7.20%	15	2010	8/31/2000	104.80			9/30/2001	-35.0	104.32	0.0	Feb/Aug	0
1/31/1996	C	60.0	5.90%	7	2003	none	none			1/31/2003	-60.0		0.0	Jul/Jan	0
1/31/1996	K	30.0	6.70%	15	2011	1/31/2001	104.47						30.0	Jul/Jan	1,005,000
8/31/1996	C	70.0	7.05%	10	2006	none	none						70.0	Feb/Aug	2,467,500
11/30/1996	K	40.0	7.20%	20	2016	11/30/2001	105.40			9/30/2002	-40.0	105.04	0.0	May/Nov	0
11/30/1996	E	40.0	6.95%	15	2011	11/30/2001	104.63						40.0	May/Nov	1,390,000
1/31/1997	C	30.0	6.80%	7	2004	none	none						30.0	Jul/Jan	1,020,000
5/31/1997	C	80.0	6.90%	8	2005	none	none						80.0	Nov/May	2,760,000
5/31/1997	B	50.0	6.50%	3	2000	none	none			5/31/2000	-50.0	100.00	0.0	Nov/May	0
8/31/1997	C	111.3	6.65%	10	2007	none	none						111.3	Feb/Aug	3,700,725
1/31/1998	F	60.0	6.10%	15	2013	none	none						60.0	Jul/Jan	1,830,000
04/30/98	C	75.3	6.00%	10	2008	none	none						75.3	Oct/Apr	2,259,000
04/30/98	C	50.0	6.65%	30	2028	4/30/2008	104.43						50.0	Oct/Apr	1,662,500
04/30/98	B	25.0	6.00%	10	2008	none	none						25.0	Oct/Apr	750,000
05/31/98	C	72.7	6.00%	11	2009	none	none						72.7	Nov/May	2,181,000
05/31/98	C	40.0	6.20%	13	2011	none	none						40.0	Nov/May	1,240,000
05/31/98	C	98.9	6.70%	34	2032	5/31/2008	104.73						98.9	Nov/May	3,313,150
05/31/98	K	37.7	6.00%	11	2009	none	none						37.7	Nov/May	1,131,000
08/31/98	C	106.5	5.85%	30	2028	none	none						106.5	Feb/Aug	3,115,125
08/31/98	C	112.3	5.85%	30	2028	none	none						112.3	Feb/Aug	3,284,775
08/31/98	C	40.0	5.75%	10	2008	none	none						40.0	Feb/Aug	1,150,000
09/30/98	K	104.3	5.30%	10	2008	none	none						104.3	Mar/Sep	2,763,950
09/30/98	K	52.8	5.60%	15	2013	none	none						52.8	Mar/Sep	1,478,400
02/28/99	C	60.0	5.90%	15	2014	none	none						60.0	Aug/Feb	1,770,000
05/31/99	C	26.2	5.95%	5	2004	none	none						26.2	Nov/May	779,450
09/30/99	C	40.0	6.20%	3	2002	none	none			9/30/2002	-40.0		0.0	Mar/Sep	0
09/30/99	F	20.0	6.30%	4	2003	none	none						20.0	Mar/Sep	630,000
09/30/99	B	20.0	6.40%	5	2004	none	none						20.0	Mar/Sep	640,000
11/30/99	C	40.0	6.40%	3	2002	none	none			11/30/2002	-40.0		0.0	May/Nov	0
01/31/00	C	53.5	7.15%	5	2005	none	none						53.5	Jul/Jan	1,912,625
04/30/00	B	40.0	6.85%	3	2003	none	none						40.0	Oct/Apr	1,370,000
07/31/00	K	32.0	6.95%	3	2003	none	none						32.0	Jan/Jul	1,112,000

07/31/00	C	50.0	7.00%	4	2004	none	none	50.0	Jan/Jul	1,750,000
08/31/00	C	15.3	6.85%	3	2003	none	none	15.3	Feb/Aug	524,025
09/30/00	C	40.0	6.75%	6	2006	none	none	40.0	Mar/Sep	1,350,000
09/30/00	B	20.0	6.70%	5	2005	none	none	20.0	Mar/Sep	670,000
1/31/2001	C	20.0	5.65%	4	2005	none	none	20.0	Jul/Jan	565,000
1/31/2001	F	25.0	5.65%	4	2005	none	none	25.0	Jul/Jan	706,250
1/31/2001	E	30.0	6.05%	9	2010	none	none	30.0	Jul/Jan	907,500
1/31/2001	C	60.0	6.05%	9	2010	none	none	60.0	Jul/Jan	1,815,000
6/30/2001	B	50.0	4.75%	3	2004	none	none	50.0	Jun/Dec	1,187,500
6/30/2001	C	25.0	5.95%	10	2011	none	none	25.0	Jun/Dec	743,750
8/31/2001	C	50.0	5.75%	10	2011	none	none	50.0	Aug/Feb	1,437,500
3/31/2002	C	110.0	4.60%	3	2005	none	none	110.0	Mar/Sep	2,530,000
3/31/2002	B	30.0	4.60%	3	2005	none	none	30.0	Mar/Sep	690,000
6/30/2002	C	60.0	3.75%	3	2005	none	none	60.0	Jun/Dec	1,125,000
6/30/2002	K	40.0	3.75%	3	2005	none	none	40.0	Jun/Dec	750,000
9/30/2002	C	100.0	3.05%	4	2006	none	none	100.0	Mar/Sep	1,525,000
9/30/2002	E	30.0	3.05%	4	2006	none	none	30.0	Mar/Sep	457,500
9/30/2002	B	20.0	3.05%	4	2006	none	none	20.0	Mar/Sep	305,000
10/31/2002	C	50.0	3.00%	3	2005	none	none	50.0	Oct/Apr	750,000
11/30/2002	C	40.0	2.80%	3	2005	none	none	40.0	Nov/May	560,000
12/31/2002	B	40.0	3.05%	4	2006	none	none	40.0	Jun/Dec	610,000

TOTAL	<u>\$8,054.0</u>				<u>(\$1,668.4)</u>		<u>(\$3,585.2)</u>	<u>\$2,800.4</u>	<u>82,189,695</u>
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Weighted average interest rate for outstanding bonds 5.87%

*Net amount issued \$6,385.6

C= Transmission Construction
K= Conservation
F= Fish and Wildlife
B= Corps and Bureau
E= Environment

Section 5

CAPITALIZED CONTRACTS AND OTHER LONG-TERM RESOURCE ACQUISITION OBLIGATIONS

I. Introduction

This section documents the data on third party debt service or payment costs associated with capitalized contracts and other long-term, fixed contractual obligations.

II. Methodology

To determine debt service streams for Energy Northwest (formerly the Washington Public Power Supply System) Nuclear Projects WNP-1, WNP-2, and WNP-3, a bond model specifically developed for Energy Northwest debt is used, and streams are based on the amount of Energy Northwest debt outstanding. BPA's Contracting Resources staff verifies model results. The debt service streams reflect all Energy Northwest refinancings to date. Debt service streams for other capitalized contracts are derived from such sources as Official Statements, Agency agreements, Agency contracts, and budgetary data. The data used in the repayment study is shown in the attached tables.

For Cowlitz Falls the debt service stream input into the repayment model is \$1 million higher per year through the rate period than shown on Table 10. This is due to the inclusion of the estimated debt service stream for a projected \$12 million in additional costs to complete fish facilities.

Table 11 reflects debt service for the Northern Wasco project. After the bond issuance, BPA decided to cancel its participation in the project. The debt service will be paid from the construction fund until it is exhausted in 2011. The debt service in the repayment study is zero from 1999 to 2011. From 2012 to 2025, the repayment study reflects the data on Table 11.

Table 4

FY 1998.Q2 FORECAST OF WNP-1 NET DEBT SERVICE REQUIREMENT:
 Forecast Prepared April 2, 1998
 Forecast Period FY 1998 - 2017

Payment Date Fiscal Year	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
	Principal	Interest	Total 1/ Gross Debt Service	Investment Income 2/	RISC Funding Requirement	Reserve Free-ups	BPA Net Debt Service (net CC Fund)	Construction Free-ups	BPA Net Debt Service (net CC Fund)											
1997 3/	62,438,800	140,012,000	192,442,000	12,199,000	80,000	18,19,730	176,037,470	80,164,750	134,892,720											
1998 4	62,902,500	136,242,010	199,346,510	8,706,000	-424,280	604,140	190,807,070	1,222,750	179,694,420											
1999 5	76,767,800	126,793,200	203,560,700	8,802,311	634,496	0	194,296,299	0	194,296,299											
2000	80,381,250	121,732,218	202,113,468	8,899,070	-4,724	120,636	193,890,299	0	193,890,299											
2001	82,169,800	116,937,079	199,307,079	8,877,260	-226,639	667,377	190,692,922	0	190,692,922											
2002	77,294,250	110,920,074	188,127,124	8,199,266	-1,107,985	2,120,679	177,702,928	0	177,702,928											
2003	73,137,800	106,148,668	179,287,166	7,899,228	-883,997	3,826,269	187,866,072	0	187,866,072											
2004	78,723,750	102,022,641	181,746,391	7,889,871	246,924	771,413	174,823,289	0	174,823,289											
2005	78,122,800	97,436,696	175,561,196	7,317,710	-618,820	671,169	167,910,256	0	167,910,256											
2006	92,820,000	93,006,682	185,826,682	7,496,066	390,546	0	179,991,600	0	179,991,600											
2007	90,018,250	87,496,296	180,402,546	7,483,660	-4,411	166,199	173,810,998	0	173,810,998											
2008	103,626,800	81,296,461	184,891,461	7,403,034	-68,188	1,343,689	177,036,729	0	177,036,729											
2009	100,023,750	74,927,267	182,961,017	7,252,272	-190,044	2,625,914	173,929,987	0	173,929,987											
2010	110,751,250	68,616,548	187,410,796	7,291,202	-444,078	0	181,616,460	0	181,616,460											
2011	108,118,000	62,607,488	180,122,488	7,609,678	1,271,796	2,687,268	182,217,782	0	182,217,782											
2012	107,639,000	64,342,841	181,872,841	7,386,730	176,038	7,761,789	187,871,369	0	187,871,369											
2013	89,678,000	46,318,629	159,899,629	7,227,916	-431,678	0	160,244,262	0	160,244,262											
2014	99,278,250	37,822,682	169,109,932	7,344,086	-7,989	2,294,170	167,314,703	0	167,314,703											
2015	176,662,948	28,616,314	205,498,262	7,190,948	-61,167	7,678,927	191,647,618	0	191,647,618											
2016	106,869,642	19,018,273	128,889,916	8,116,103	30,066	10,167,199	190,676,681	0	190,676,681											
2017	102,018,181	6,298,169	108,304,321	2,676,200	796,018	26,094,825	133,041,264	0	133,041,264											
2018	0	0	0	0	0	0	0	0	0											
Total	2,261,667,499	1,947,789,417	4,209,337,246	148,566,328	1,038,082	69,611,292	3,631,477,822	1,222,750	3,630,255,072											

1/ Gross debt service reflects 1972A variable rate refunding issued April 1, 1998.

2/ Interest rate assumptions based on WGFA CY 1997 Fourth Quarter Long Term Economic Outlook, Volume 1, Trend Growth Scenario.

3/ Reflects Supply System FY 1998 budget prepared April 24, 1997 and BPA cash management staff estimates.

4/ Principal and interest expense adjusted to reflect impact of anticipated Supply System budget amendment on BPA debt service expense. Adjustments to gross debt service reflect Supply System FY 1998 Budget prepared March 9, 1998. Columns may not add because of additional budget adjustments.

5/ Principal and interest expense reflect BPA long term WNP debt service forecast. Adjustments to gross debt service reflect Supply System FY 1998 Long Term Statement of Funding Requirements prepared March 24, 1998.

Table 5

1998 Q2 FORECAST OF WNP-2 NET DEBT SERVICE REQUIREMENT:

Forecast Prepared April 2, 1998

Forecast Period FY 1998 - 2012

Assumes No Financing of WNP-2 Capital Additions

Payment Date Fiscal Year	98	09	10	08	09	0	(c-d+e)
	Principal	Interest	Total 1/ Gross Debt Service	Investment Income 2/	RBC Funding Requirement	Reserve Free-ups	BPA Net Debt Service
1997 3/	70,088,750	140,677,900	210,766,650	15,603,250	313,350	8,231,420	194,906,320
1998 4/	92,862,900	130,258,870	223,121,770	14,790,750	-33,060	4,180,350	204,207,870
1999 5/	144,160,900	131,007,269	275,168,209	14,589,020	1,411,830	0	263,044,530
2000	161,617,800	123,778,827	285,396,627	16,479,713	-27,684	0	280,339,330
2001	150,122,900	114,999,870	265,122,770	15,000,230	-220,365	0	280,941,630
2002	111,368,750	105,607,864	216,976,614	13,302,468	-5,413,707	1,468,350	197,441,740
2003	107,321,910	102,323,910	209,645,820	13,896,342	4,248,772	5,790,650	244,986,640
2004	103,791,795	100,654,148	204,445,943	13,110,398	-19,811	10,449,051	233,624,152
2006	128,391,428	104,009,893	232,401,321	11,686,089	-2,713,639	31,463,689	187,825,689
2006	147,390,378	99,124,870	246,515,248	9,930,401	411,463	16,660,918	211,976,323
2007	175,469,366	77,888,342	253,357,708	9,401,675	1,811,375	11,762,044	234,408,704
2008	196,148,910	60,224,490	256,373,400	8,409,816	303,469	0	247,966,630
2009	200,290,894	55,151,629	255,442,523	8,400,661	-94,766	0	246,716,677
2010	201,050,202	47,491,434	248,541,636	8,237,075	-489,362	526,634	230,858,514
2011	221,416,420	34,626,470	256,042,890	7,895,097	750,518	17,683,489	271,997,623
2012	273,468,750	16,072,441	289,541,191	4,649,000	12,688,470	48,312,859	349,032,519
2013	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0
Total	2,512,753,461	1,297,393,600	3,810,147,061	171,430,348	10,164,911	100,923,499	3,519,918,504

1/ Gross debt service reflects 1972A variable rate refunding issued April 1, 1996.

2/ Interest rate assumptions based on WFAA CY 1997 Fourth Quarter Long Term Economic Outlook, Volume 1, Trend Growth Scenario.

3/ Reflects Supply System FY 1996 budget prepared April 24, 1997 and BPA cash management staff estimates.

4/ Principal and interest expense adjusted to reflect impact of anticipated Supply System budget amendment on BPA debt service expense. Adjustments to gross debt service reflect Supply System FY 1996 Budget prepared March 5, 1996. Columns may not add because of additional budget adjustments.

5/ Principal and interest expense reflect BPA long term WNP debt service forecast. Adjustments to gross debt service reflect Supply System FY 1998 Long Term Statement of Funding Requirements prepared March 24, 1998.

Table 6

1998.Q2 FORECAST OF WNP-3 NET DEBT SERVICE REQUIREMENT:
 Forecast Prepared April 2, 1998
 Forecast Period FY 1995 - 2018

Payment Date Fiscal Year	(a)	(b)	(c)	(d)	(e)	(f)	(c+d+e-f)
	Principal	Interest	Total 1/ Gross Debt Service	Investment Income 2	R/R Funding Requirement	Reserve Free-ups	BPA Net Debt Service
1997-2	36,470,000	94,891,188	131,361,188	8,104,000	-1,233,000	581,200	121,289,488
1999-4	45,618,750	88,443,880	133,962,630	7,897,250	-196,800	454,900	124,663,380
1999-5	72,478,750	87,342,968	159,821,688	7,839,860	1,775,618	0	168,671,676
2000	75,917,440	84,412,261	160,329,641	8,124,566	49,918	0	168,279,415
2001	75,826,600	84,771,711	160,598,311	7,851,871	35,897	35,499	163,799,922
2002	75,857,250	81,865,384	157,722,634	7,700,407	-8,549	76,498	161,793,034
2003	75,876,423	83,891,888	159,768,311	7,494,799	-77,883	184,250	162,963,175
2004	63,600,963	62,872,968	126,473,931	7,176,848	-343,952	462,769	140,232,303
2005	64,701,458	60,982,486	125,683,944	7,079,968	-81,218	0	148,479,911
2006	64,082,548	58,949,752	123,032,300	6,965,988	-168,853	0	147,839,385
2007	60,696,869	58,891,311	119,588,180	6,812,091	-358,372	0	144,347,459
2008	62,432,883	58,187,388	120,620,271	6,764,842	11,908	229,761	144,676,771
2009	64,768,128	56,250,868	121,019,000	6,623,179	16,657	3,087,838	142,619,641
2010	71,138,294	61,678,062	132,816,356	6,396,963	201,268	7,195,744	140,361,330
2011	68,202,344	72,827,138	141,029,482	6,441,881	799,841	0	151,119,233
2012	67,637,571	70,703,689	138,341,260	6,601,747	748,408	0	145,419,931
2013	66,297,502	72,227,522	138,525,024	6,826,611	268,181	1,680,700	141,302,723
2014	66,124,869	62,894,666	129,019,535	6,486,428	17,424	4,982,100	138,329,421
2015	60,318,706	58,729,831	119,048,537	6,892,453	16,887	0	125,957,377
2016	60,682,118	55,674,473	116,356,591	6,906,390	-64,123	0	122,438,858
2017	60,225,365	56,253,188	116,478,553	6,649,426	-613,497	13,687,194	123,491,372
2018	61,332,061	56,333,188	117,665,249	2,842,411	4,062,964	43,821,883	124,532,505
Total	1,786,016,340	1,623,238,688	3,409,255,028	141,822,688	6,271,361	72,783,714	3,113,838,821

1) Gross debt service reflects 1972A variable rate refunding issued April 1, 1998.

2) Interest rate assumptions based on WEFA Co' 1997 Fourth Quarter Long Term Economic Outlook, Volume 1, Trend Growth Scenario.

3) Reflects Supply System FY 1999 budget prepared April 24, 1997 and BPA cash management staff estimates.

4) Principal and interest expense adjusted to reflect impact of anticipated Supply System budget amendment on BPA debt service expense. Adjustments to gross debt service reflect Supply System FY 1999 Budget prepared March 9, 1998. Columns may not add because of additional budget adjustments.

5) Principal and interest expense reflect BPA long term WNP debt service forecast. Adjustments to gross debt service reflect Supply System FY 1999 Long Term Statement of Funding Requirements prepared March 24, 1998.

Table 7
EWEB's SHARE OF TROJAN PROJECTED NET DEBT SERVICE STREAM
BPA FY 1999 - 2009

Payment Date	Principal	Interest	Total Gross Debt Service	Investment Income 1/	Reserve Account Freeups	Total Net Debt Service
1999	5,542,500	5,014,631	10,557,131	628,950	0	9,928,181
2000	5,871,250	4,689,615	10,560,865	638,663	0	9,922,203
2001	6,213,750	4,343,211	10,556,961	620,813	0	9,936,149
2002	6,581,250	3,976,600	10,557,850	610,313	0	9,947,538
2003	6,967,500	3,588,306	10,555,806	601,913	0	9,953,894
2004	7,380,000	3,177,224	10,557,224	593,250	0	9,963,974
2005	7,818,750	2,741,804	10,560,554	571,463	0	9,989,092
2006	8,278,750	2,280,498	10,559,248	549,938	0	10,009,311
2007	8,766,250	1,792,051	10,558,301	544,950	0	10,013,351
2008	9,283,750	1,274,843	10,558,593	549,675	0	10,008,918
2009	9,831,250	727,101	10,558,351	557,550	10,500,000	-499,199
2010	0	0	0	0	0	0
Total	82,535,000	33,605,884	116,140,884	6,467,475	10,500,000	99,173,409

1/ Reflects earnings on Debt Service Reserve Funds. Interest rate assumptions based on WEFA 1995 Third Quarter Long Term Economic Outlook, Volume 1, Trend Growth Scenario.

Table 8
EWEB CONSERVATION PROJECTED NET DEBT SERVICE STREAM
BPA FY 1999 - 2000

Payment Date (Fiscal Year)	Principal	Interest	Total Gross Debt Service	Investment Income	Reserve Account Freeups	Total Net Debt Service
1999	1,690,000	231,240	1,921,240	0	0	1,921,240
2000	1,800,000	119,700	1,919,700	0	0	1,919,700
Total	3,490,000	350,940	3,840,940	0	0	3,840,940

Table 9
IDAHO FALLS PROJECTED NET DEBT SERVICE STREAM
BPA FY 1999 - 2014

Payment Date (Fiscal Year)	Principal	Interest 1/	Total 1/ Gross Debt Service	Investment Income 2/	Reserve Account Freeups	Total Net Debt Service
1999	1,080,000	3,017,069	4,097,069	242,146	0	3,854,923
2000	1,185,000	2,910,021	4,095,021	245,885	0	3,849,136
2001	1,300,000	2,738,908	4,038,908	239,013	0	3,799,895
2002	1,420,000	2,554,835	3,974,835	234,971	0	3,739,864
2003	1,560,000	2,408,965	3,968,965	231,737	0	3,737,228
2004	1,725,000	2,247,900	3,972,900	228,402	0	3,744,498
2005	1,905,000	2,069,280	3,974,280	220,013	0	3,754,267
2006	2,095,000	1,875,797	3,970,797	211,726	0	3,759,071
2007	2,310,000	1,666,416	3,976,416	209,806	0	3,766,610
2008	2,525,000	1,437,120	3,962,120	211,625	0	3,750,495
2009	2,775,000	1,185,413	3,960,413	214,657	0	3,745,756
2010	2,795,000	933,766	3,728,766	217,588	0	3,511,178
2011	3,055,000	670,597	3,725,597	218,295	0	3,507,302
2012	3,335,000	383,236	3,718,236	217,386	0	3,500,850
2013	3,650,000	68,894	3,718,894	214,354	4,042,507	-537,967
2014	0	0	0	0	0	0
Total	32,715,000	26,168,217	58,883,217	3,357,605	4,042,507	51,483,105

- 1/ Reflects July 23, 1991, Memorandum of Understanding between Bonneville and the City of Idaho Falls to reduce BPA's debt service obligation.
- 2/ Reflects projected earnings from the Debt Service Reserve Fund, and Repair and Replacement Reserve Fund investments. Interest rates based on WEFA 1995 Third Quarter Long Term Economic Outlook, Volume 1, Trend Growth Scenario.

Table 10
COWLITZ FALLS PROJECTED NET DEBT SERVICE STREAM 1/
BPA FY 1999 - 2024

Payment Date (Fiscal Year)	Principal	Interest	Total 1/ Gross Debt Service	Investment Income	Reserve Account Freeups	Total Net Debt Service
1999	3,260,000	9,794,064	13,054,064	875,326	0	12,178,738
2000	3,445,000	9,606,774	13,051,774	875,326	0	12,176,448
2001	3,650,000	9,405,031	13,055,031	875,326	0	12,179,705
2002	3,865,000	9,187,693	13,052,693	875,326	0	12,177,367
2003	4,050,000	9,004,105	13,054,105	875,326	0	12,178,779
2004	4,245,000	8,806,668	13,051,668	875,326	0	12,176,342
2005	4,460,000	8,594,418	13,054,418	875,326	0	12,179,092
2006	4,690,000	8,365,843	13,055,843	875,326	0	12,180,517
2007	4,930,000	8,121,963	13,051,963	875,326	0	12,176,637
2008	5,190,000	7,863,138	13,053,138	875,326	0	12,177,812
2009	5,465,000	7,584,175	13,049,175	875,326	0	12,173,849
2010	5,765,000	7,283,600	13,048,600	875,326	0	12,173,274
2011	6,085,000	6,966,525	13,051,525	875,326	0	12,176,199
2012	6,425,000	6,631,850	13,056,850	875,326	0	12,181,524
2013	6,775,000	6,278,475	13,053,475	875,326	0	12,178,149
2014	7,150,000	5,905,850	13,055,850	875,326	0	12,180,524
2015	7,540,000	5,512,600	13,052,600	875,326	0	12,177,274
2016	7,950,000	5,097,900	13,047,900	875,326	0	12,172,574
2017	8,395,000	4,660,650	13,055,650	875,326	0	12,180,324
2018	8,855,000	4,198,925	13,053,925	875,326	0	12,178,599
2019	9,340,000	3,711,900	13,051,900	875,326	0	12,176,574
2020	9,855,000	3,198,200	13,053,200	875,326	0	12,177,874
2021	10,395,000	2,656,175	13,051,175	875,326	0	12,175,849
2022	10,970,000	2,084,450	13,054,450	875,326	0	12,179,124
2023	11,985,000	1,481,100	13,466,100	875,326	0	12,590,774
2024	12,700,000	762,000	13,462,000	875,326	13,466,550	-879,876
2025	0	0	0	0	0	0
Total	177,435,000	162,764,072	340,199,072	22,758,476	13,466,550	303,974,046

1/ Reflects 1993 refunding of 1991 Cowlitz Falls Hydroelectric Project Revenue Bonds.

Table 11
Northern Wasco Projected Net Debt Service Stream
BPA FY 1999 - 2025

Payment Date (Fiscal Year)	Principal	Interest	Total Gross Debt Service	Investment Income	Reserve Account Freeups	Total 1/ Net Debt Service
1999	628,750	1,596,965	2,225,715	0	0	2,225,715
2000	653,750	1,571,815	2,225,565	0	0	2,225,565
2001	682,500	1,544,428	2,226,928	0	0	2,226,928
2002	708,750	1,515,421	2,224,171	0	0	2,224,171
2003	741,250	1,483,959	2,225,209	0	0	2,225,209
2004	776,250	1,450,603	2,226,853	0	0	2,226,853
2005	811,250	1,414,494	2,225,744	0	0	2,225,744
2006	850,000	1,376,058	2,226,058	0	0	2,226,058
2007	890,000	1,335,683	2,225,683	0	0	2,225,683
2008	933,750	1,291,720	2,225,470	0	0	2,225,470
2009	982,500	1,244,324	2,226,824	0	0	2,226,824
2010	1,032,500	1,194,216	2,226,716	0	0	2,226,716
2011	1,082,500	1,141,559	2,224,059	0	0	2,224,059
2012	1,136,250	1,086,351	2,222,601	0	0	2,222,601
2013	1,195,000	1,028,403	2,223,403	0	0	2,223,403
2014	1,258,750	966,550	2,225,300	0	0	2,225,300
2015	1,323,750	901,095	2,224,845	0	0	2,224,845
2016	1,392,500	832,260	2,224,760	0	0	2,224,760
2017	1,466,250	759,850	2,226,100	0	0	2,226,100
2018	1,541,250	683,605	2,224,855	0	0	2,224,855
2019	1,620,000	603,460	2,223,460	0	0	2,223,460
2020	1,703,750	519,220	2,222,970	0	0	2,222,970
2021	1,792,500	430,625	2,223,125	0	0	2,223,125
2022	1,886,250	337,415	2,223,665	0	0	2,223,665
2023	1,985,000	239,330	2,224,330	0	0	2,224,330
2024	528,750	27,495	556,245	0	0	556,245
2025	0	0	0	0	0	0
Total	29,603,750	26,576,901	56,180,651	0	0	56,180,651

1/ Construction funds will be used to satisfy debt service obligation through BPA fiscal year 2011.

Table 12
EMERALD PROJECTED NET DET SERVICE STREAM
BPA FY 1999 - 2010

Pay Date	Principal	Interest	Gross Debt Service	Investment Income	Reserve Account Freeups	Total Net Debt Service
1999	125,528	127,812	253,340	0	0	253,340
2000	134,084	119,256	253,340	0	0	253,340
2001	143,275	110,064	253,340	0	0	253,340
2002	153,072	100,267	253,340	0	0	253,340
2003	163,541	89,799	253,340	0	0	253,340
2004	174,728	78,611	253,340	0	0	253,340
2005	186,683	66,656	253,340	0	0	253,340
2006	199,459	53,880	253,340	0	0	253,340
2007	213,112	40,228	253,340	0	0	253,340
2008	227,702	25,637	253,340	0	0	253,340
2009	234,748	10,044	244,793	0	0	244,793
2010	24,913	217	25,129	0	0	25,129
Total	1,980,846	822,471	2,803,317	0	0	2,803,317

Table 13
CONSERVATION AND RENEWABLE ENERGY SYSTEM PROJECTED
NET DEBT SERVICE STREAM
BPA FY 1999 - 2014

Payment Date (Fiscal Year)	Principal	Interest	Total Gross Debt Service	Investment Income	Reserve Account Freeups	Total Net Debt Service
1999	1,255,000	2,098,660	3,353,660	0	0	3,353,660
2000	1,320,000	2,035,282	3,355,282	0	0	3,355,282
2001	1,390,000	1,965,982	3,355,982	0	0	3,355,982
2002	1,465,000	1,891,617	3,356,617	0	0	3,356,617
2003	1,545,000	1,811,775	3,356,775	0	0	3,356,775
2004	1,630,000	1,726,027	3,356,027	0	0	3,356,027
2005	1,720,000	1,633,932	3,353,932	0	0	3,353,932
2006	1,820,000	1,535,032	3,355,032	0	0	3,355,032
2007	1,925,000	1,428,562	3,353,562	0	0	3,353,562
2008	2,040,000	1,313,062	3,353,062	0	0	3,353,062
2009	2,165,000	1,190,662	3,355,662	0	0	3,355,662
2010	2,300,000	1,056,432	3,356,432	0	0	3,356,432
2011	2,445,000	911,532	3,356,532	0	0	3,356,532
2012	2,600,000	756,275	3,356,275	0	0	3,356,275
2013	2,775,000	577,525	3,352,525	0	0	3,352,525
2014	2,960,000	397,150	3,357,150	0	0	3,357,150
2015	3,150,000	204,750	3,354,750	0	0	3,354,750
Total	34,505,000	22,534,257	57,039,257	0	0	57,039,257

Table 14
TACOMA PROJECTED NET DEBT SERVICE STREAM
BPA FY 1999-2015

Principal	Interest	Total Gross Debt Service	Investment Income	Reserve Account Freeups	Total Net Debt Service
695,000	1,267,179	1,962,179	0	0	1,962,179
735,000	1,227,782	1,962,782	0	0	1,962,782
775,000	1,185,295	1,960,295	0	0	1,960,295
822,500	1,139,547	1,962,047	0	0	1,962,047
872,500	1,090,159	1,962,659	0	0	1,962,659
926,250	1,036,847	1,963,097	0	0	1,963,097
981,250	979,359	1,960,609	0	0	1,960,609
1,043,750	917,317	1,961,067	0	0	1,961,067
1,112,500	850,174	1,962,674	0	0	1,962,674
1,182,500	777,564	1,960,064	0	0	1,960,064
1,260,000	699,065	1,959,065	0	0	1,959,065
1,347,500	614,471	1,961,971	0	0	1,961,971
1,437,500	523,959	1,961,459	0	0	1,961,459
1,531,250	427,475	1,958,725	0	0	1,958,725
1,637,500	323,866	1,961,366	0	0	1,961,366
1,747,500	212,355	1,959,855	0	0	1,959,855
1,868,750	93,019	1,961,769	0	0	1,961,769
19,976,250	13,365,431	33,341,681	0	0	33,341,681

Section 6

IRRIGATION ASSISTANCE

I. Introduction

This section documents the amount of irrigation construction costs for Federal reclamation projects in the Pacific Northwest allocated to irrigation use that the FCRPS has an obligation to repay. These payments are known as irrigation assistance.

Background

In an effort to encourage settlement of the arid and semiarid lands of the Western United States, the 1902 Reclamation Act created the Reclamation to develop water resources for irrigation. The 1902 Reclamation Act provided that irrigators using the reclamation projects had 10 years to repay the construction costs of such projects. Title to the reclamation projects, however, remained with the Federal government even after all construction costs were repaid.

By the 1920s, a 10-year repayment period for irrigators was determined to be economically unrealistic. After several leniency acts and extensions, Congress passed the 1939 Reclamation Act, which changed the repayment period on reclamation projects to 40 years after a 10-year development period. Later revisions and project-specific legislation extended repayment periods for most reclamation projects to 50 years after a 10-year development period. However, the Kennewick project has a 66-year repayment period.

Originally, irrigators were responsible for repaying all project construction costs without interest. However, hydropower is a by-product of many reclamation projects and not all of the power generated is needed for irrigation works. As early as the Town Sites and

Power Development Act (April 16, 1906, ch. 1631, 34 Stat. 116) Congress authorized Reclamation to lease surplus power and use the proceeds to repay part of the costs of the reclamation projects.

The concept of power revenues contributing to the repayment of Reclamation's multipurpose projects evolved to the current policy, in which power revenues are used to repay that portion of the project construction costs allocated to irrigation use that are beyond the irrigators' "ability to repay." Moreover, the costs to be repaid by power revenues, known as irrigation assistance, are to be repaid without interest. Reclamation has the responsibility to make the determination of the amount that is beyond the irrigators' "ability to repay" through a farm budget analysis. The results of this analysis are used to establish the irrigators' repayment responsibility. The irrigators, as an irrigation district, and Reclamation formalize this repayment responsibility in irrigation contracts.

II. Irrigation Repayment

In the Pacific Northwest, the Third Powerplant, Grand Coulee Dam legislation, P.L. 89-448, authorized repayment of the irrigation assistance costs from net revenues of the entire FCRPS. There are, however, limitations on the FCRPS's repayment responsibility. These limitations were added in amendment to the Third Powerplant, Grand Coulee Dam legislation, P.L. 89-561, and apply to reclamation projects, including projects not previously receiving similar assistance, which are authorized to receive such assistance, for which construction was authorized after September 7, 1966.

The limitations are:

- The irrigation assistance for such projects is to be paid only from net revenues of the power system. Net revenues are defined as those revenues over and above the amount

needed to recover all costs allocated to power, including the cost of acquiring power by purchase or exchange, and previously authorized irrigation assistance.

- The construction of such projects shall be scheduled so that the repayment of the irrigation assistance associated with such projects from power revenues will not require an increase in the BPA power rate level.
- The total of all irrigation assistance to be repaid from power revenues shall not average more than \$30 million per year in any period of 20 consecutive years.

Reclamation provides BPA with data on the irrigation assistance to be repaid from each reclamation project, and estimates for future additions to such projects. The generation repayment study includes information provided in August 1998. Because irrigation assistance costs are repaid without interest and BPA repays highest interest-bearing investment first, irrigation assistance is generally scheduled to be repaid in the last year of the repayment period on each reclamation project. BPA made its first payment of \$25,143 thousand in 1997. A payment of \$16,650 thousand was paid in 2001. A single payment totaling \$739 thousand is due during the 2002-2006 rate period, in FY 2004.

In December 2002, BPA received updated data from Reclamation. This updated data is attached herein. The Final Proposal will reflect the updated irrigation assistance.

Boise Project

The irrigation assistance data provided by Reclamation for the Boise project reflects unsold space, in the Cascade and Deadwood reservoirs, as a source of future revenues. Previously, Reclamation proposed to sell 380,000 acre-feet of conservation pool space in these reservoirs to the State of Idaho. The Memorandum of Agreement (MOA) between Reclamation and the State of Idaho was never signed due to the State's objection to language in the MOA that pertained to endangered species issues. Reclamation no longer

considers the storage space to be available for sale, and instead, is using the space to store water to address salmon issues. Although the current data does not reflect this change, the Reclamation anticipates some future adjustment in the irrigation assistance data. BPA is including the unadjusted data, provided by Reclamation, in the revenue requirement study since BPA has no basis to project revised costs.

Columbia Basin Project and Green Springs Project

At Columbia Basin, Reclamation completed an examination of project purposes that resulted in a reallocation to power of plant previously associated with irrigation (directly as irrigation or indirectly as common general plant). As a result, the investment at the project for which power rates are responsible increased by \$69.226 million, and there was a decrease in irrigation assistance of \$98.345 million. In addition, Green Springs (Rogue River Irrigation Project), a project in southern Oregon, with investment of \$11.17 million, was added to the FCRPS. Irrigation assistance was increased by \$9.9 million for this project.

The following letter from the Bureau of Reclamation including the enclosed tables, reflects the Columbia Basin reallocation included in the current repayment studies.



IN REPLY REFER TO:
D-5200

United States Department of the Interior

BUREAU OF RECLAMATION
Washington, D.C. 20240

JUL 10 2000

MEMORANDUM

To: Regional Director, Boise, Idaho
Attention: PN-1000

From: Eluid L. Martinez
Commissioner

Subject: Approval Memorandum for Cost Reallocation Interim Report, Columbia Basin Project, Washington

This is in response to your memorandum of May 17, 2000, in which you requested approval of the subject report entitled "Interim Cost Reallocation Report, Columbia Basin Project, Washington, May 2000." This cost reallocation is considered "interim" because the project has not been completed. The original authorization has not been amended and remains in place.

The principal purposes of a cost allocation are to assign specific and separable costs to individual project purposes and to determine an equitable allocation of the remaining joint costs to those same authorized project purposes. Several methodologies are available to perform the allocation, including the alternative justifiable expenditure (AJE) method. This method was used for the allocations completed in 1945 and 1963, and for consistency and because it appeared to be appropriate, this method was used in the subject interim allocation as well.

The last interim allocation of costs was completed in 1963, and significant changes have occurred since then that would influence the allocation of the project investment costs. The 1963 analysis preceded the addition of the third powerplant and pump-generating units and also assumed development of the full 1,029,000 acres for irrigation. The subject interim allocation utilized only the 671,000 acres that are currently in service. These specific changes along with the recommendation from the Office of Inspector General (OIG) resulted in a decision to perform a new interim allocation of project investment costs. In part, the recommendation of the OIG states "that the Commissioner, Bureau of Reclamation, ensure that the Pacific Northwest Region prepares an interim cost allocation for the Columbia Basin Project that reflects the Project as currently developed."

Rather than allocate directly to irrigation in this allocation, costs were first allocated to the water supply purposes. These costs were then further suballocated to irrigation, and municipal and industrial (M&I) water supply. This procedure permitted costs to be allocated to M&I, which had not been done in previous allocations. It should be noted that M&I service is not specifically

identified as a project purpose in the authorizing legislation, but allocating costs to this purpose will allow these costs to be recovered through existing or future M&I contracts. Costs allocated to power were also suballocated with a portion of the costs being allocated back to irrigation, since part of the power production is used to pump water for this purpose.

Flood control is an authorized project purpose; however, estimates of flood control benefits attributable to project facilities were reduced in absolute and relative terms compared to the previous allocations. This occurs because of additional storage constructed elsewhere in the basin and the addition of levees downstream from the project. Navigation was initially considered to be a project purpose with benefits attributed to the reduction in the cost of annual maintenance dredging. The Corps of Engineers has now found the benefits derived from the facilities to be minimal due to downstream channel deepening, construction of upstream dams, and the use of pile dikes in the lower reaches of the river to train the river flows. Thus, no costs have been allocated to this purpose.

These changes in assumptions and computational procedures resulted in the following proposed interim allocation contained in the subject report. This allocation is compared here to the 1963 allocation for background purposes.

	<u>1963 allocation</u>	<u>Proposed allocation</u>
Power	\$172,582,000	\$1,129,541,983
Irrigation	738,325,000	543,948,761
M&I	-	1,984,232
Flood control	48,798,000	26,912,074
Navigation	1,000,000	-
Other	499,000	-
Total	\$961,204,000	\$1,702,387,050

The subject interim reallocation report is approved with the following understandings:

1. The interim reallocation will be put into effect on October 1, 2000, and will not be applied retroactively (i.e., it will not apply to past payments made by the Bonneville Power Administration (BPA) pursuant to the 1963 interim reallocation report).

2. The reallocation results in an increase in reimbursable investment costs allocated to commercial power. The repayment of such costs is the responsibility of the Federal Columbia River Power System (FCRPS). The payment of the investment will be in accordance with the Project authorizations and BPA's payment priority under applicable authority for repaying FCRPS costs and its associated agreements with Treasury.

3. Interest will accumulate on any unpaid investment. In other words, interest will begin accruing on the interest bearing components of the interim reallocation beginning on October 1, 2000, at the appropriate authorized project interest rates or other rates applicable to

FCRPS costs. However, it is recognized that BPA may choose from among several methods to repay the commercial power investment obligation to the U.S. Treasury within the prescribed 50-year period, including lump sum, periodic payments, or deferred payments.

4. The interim reallocation includes allocations to flood control and to water supply which, in turn, was suballocated to irrigation and M&I. Allocations to these purposes will also be implemented October 1, 2000. As the irrigation repayment and water service contracts specify fixed obligations, the irrigation assistance from the FCRPS will be adjusted accordingly. Investment cost allocated to M&I will be recovered via existing and future M&I contracts.

5. The new allocation for operations and maintenance (O&M) will be implemented on October 1, 2000. This will increase the proportion of Grand Coulee Dam and Reservoir O&M costs paid by BPA from 69.87 % to 92.054 %. However, I understand that there will be no impact to the O&M costs which the project irrigation districts pay since these costs are established under a separate process. Under this process, Reclamation recovers irrigation O&M costs through a 5-year, fixed-rate per acre-foot charge for water delivered to the irrigation districts which charge is established by criteria in article 36 of the December 1968 arduatory contracts, i.e., the Diversion Rate. A new irrigation O&M rate was recently established for the period 2000-2004 with the execution of a Diversion Rate agreement.

If you have any questions, please contact Larry Schluntz at 303-445-2901 or via the LAN.

FCRPS Percent of Joint Costs Allocated to Power

	Joint %	MWH	
BUREAU PROJECTS:			
BOISE	8.7	5,871	51,078
COLUMBIA BASIN	79.7	710,836	56,660,738
HUNGRY HORSE	70.0	36,275	2,539,250
MINIDOKA-PALISADES	1.4	21,576	30,206
YAKIMA	22.9	19,878	455,206
TOTAL BUREAU	75.2	794,436	59,736,478
CORPS PROJECTS:			
ALBENI FALLS	97.5	67,732	6,603,870
BONNEVILLE	50.0	489,308	24,465,400
CHIEF JOSEPH	100.0	485,479	48,547,900
COUGAR	23.0	22,251	511,773
DETROIT-BIG CLIFF	40.5	69,520	2,815,560
DWORSHAK	87.4	248,890	21,752,986
GREEN PETER-FOSTER	49.5	57,279	2,835,311
HILLS CREEK	24.5	22,779	558,086
ICE HARBOR	78.6	185,132	14,551,375
JOHN DAY	77.5	386,886	29,983,665
LIBBY	78.0	282,925	22,068,150
LITTLE GOOSE	93.3	214,463	20,009,398
LOOKOUT POINT-DEXTER	31.0	77,484	2,402,004
LOST CREEK	5.5	23,751	130,631
LOWER GRANITE	98.4	267,964	26,367,658
LOWER MONUMENTAL	94.1	232,751	21,901,869
MCNARY	81.3	452,934	36,823,534
THE DALLES	74.0	389,344	28,811,456
TOTAL CORPS	78.2	3,976,872	311,140,625
TOTAL GENERATING PROJECTS	77.7	4,771,308	370,877,102
Non-Power Share	22.3		

The following letter from the Bureau of Reclamation, including the enclosed tables, reflects the Irrigation Assistance included in the current repayment studies.



IN REPLY
REFER TO:
PN-3324
WTR-4.00

United States Department of the Interior

BUREAU OF RECLAMATION
Pacific Northwest Region
1150 North Curtis Road, Suite 100
Boise, Idaho 83706-1254

AUG 28 1998

Mr. Tom Thompson
Manager of Financial Operations, CR-2
Department of Energy
Bonneville Power Administration
PO Box 3621
Portland OR 97208-3621

Subject: Federal Columbia River Power System, Assistance To Authorized Reclamation
Irrigation Projects in the Pacific Northwest, Fiscal Year 1997

Dear Mr. Thompson:

Enclosed are three tables which summarize the schedule for repayment of irrigation assistance from the Federal Columbia River Power System (FCRPS) to authorized irrigation projects. This information is being furnished as requested by your letter of September 7, 1966, and your agency's annual call for project cost data on Reclamation projects that are part of the FCRPS.

Table 1 is a summary, in chronological order, for all authorized projects. Table 2 contains more detailed data for all projects except the Columbia Basin Project. Table 3 contains the detailed information for the Columbia Basin Project. The data on irrigation assistance reflects the latest Reclamation cost data for fiscal year 1997.

The data furnished for fiscal year 1997 contains several noteworthy details. As shown, data for the Boise Project reflects that irrigation assistance was due and paid by the Bonneville Power Administration (BPA) in 1997. Public Law 105-9, April 14, 1997, titled the Oroville-Tonasket Claim Settlement And Conveyance Act, transferred title of the irrigation works of the Oroville-Tonasket Project to the Oroville-Tonasket Irrigation District. Section 5 (c) of the Act provided that the transfer of title shall not affect the timing and amount of the irrigation assistance obligation of BPA as determined by the Secretary of the Interior. And finally, data for the Columbia Basin Project reflects the current developed platted acreage (558,106 acres). Although the project is authorized to serve over a million acres, Reclamation is currently not requesting Congressional appropriations for construction of the "second half" of the project. Should conditions change, the "second half" of the project could be added to the list.

Also, as you are aware, Reclamation is currently engaged in a reallocation study of the costs of the Columbia Basin Project. The reallocation, an interim allocation, will reflect the current developed acreage, inclusion of the Third Powerplant, Pump/Generators, and will also reflect changes in operational aspects of the project. The reallocation will be completed in fiscal year 1999.

Four authorized projects are excluded from the list. These projects are: The Salmon Falls Division of the Upper Snake River Project; the Rogue River Basin Project, Merlin Division; the Walla Walla Project, Touchet Division; and the Yakima Project, Kennewick Division Extension. If these projects become active in the future, they will be rescheduled and added to the list.

If you have any questions about this data, please call Al Reiners at (208) 378-5344.

Sincerely,



for Steven R. Clark
Acting Regional Director

Enclosures

cc: Bonneville Power Administration
3550 Americana Terrace Ste 360
Boise ID 83702

TABLE 1. --SUMMARY OF FINANCIAL ASSISTANCE TO IRRIGATION - FY 1997
 FEDERAL COLUMBIA RIVER POWER SYSTEM (FCRPS)
 Authorized Projects, Thru Sept. 30, 1997

PROJECT	FISCAL YEAR DUE	Assistance Required		
		AMOUNT (\$1,000)	CUMULATIVE (\$1,000)	
BOISE	1997	24,999	24,999	paid
PALISADES	2001	16,560	41,559	
AVONDALE	2004	184	41,743	
DALTON GARDENS	2004	206	41,951	
RATHDRUM PRAIRIE, HAYDEN LAKE	2004	347	42,298	
MANN CREEK	2008	2,950	45,248	
COLUMBIA BASIN	2009	5,702	50,950	
SPOKANE VALLEY	2009	2,007	52,957	
COLUMBIA BASIN	2012	811	53,768	
COLUMBIA BASIN	2013	49,796	103,564	
COLUMBIA BASIN	2014	48,554	152,118	
COLUMBIA BASIN	2015	54,101	206,219	
COLUMBIA BASIN	2016	64,264	270,483	
COLUMBIA BASIN	2017	60,457	330,940	
CHIEF JOSEPH DAM, GREATER WENATCHEE	2017	1,071	332,011	
YAKIMA, ROZA	2017	718	332,729	
COLUMBIA BASIN	2018	24,267	358,996	
CHIEF JOSEPH DAM, FOSTER CREEK	2018	680	357,676	
YAKIMA, ROZA	2018	513	358,189	
COLUMBIA BASIN	2019	61,343	419,532	
CHIEF JOSEPH DAM, FOSTER CREEK	2019	1,125	420,657	
MICHAUD FLATS	2019	2,079	422,736	
MICHAUD-FORT HALL	2019	2,079	424,815	
YAKIMA, ROZA	2019	375	425,190	
COLUMBIA BASIN	2020	34,108	459,298	
CROOKED RIVER	2020	2,835	461,933	
COLUMBIA BASIN	2021	15,436	477,369	
YAKIMA, ROZA	2021	1,390	478,759	
COLUMBIA BASIN	2022	15,416	494,175	
YAKIMA, ROZA	2022	415	494,590	
COLUMBIA BASIN	2023	9,663	504,253	
COLUMBIA BASIN	2024	14,088	518,341	
CHIEF JOSEPH DAM, GREATER WENATCHEE	2024	1,943	520,284	
YAKIMA, KENNEWICK	2024	5,041	525,325	
COLUMBIA BASIN	2025	17,104	542,429	
CROOKED RIVER EXT	2025	1,184	543,613	
CHIEF JOSEPH DAM, WHITESTONE COULEE UNIT	2026	3,810	547,423	
COLUMBIA BASIN	2026	11,994	559,417	
CHIEF JOSEPH DAM, GREATER WENATCHEE	2026	953	560,370	
YAKIMA, ROZA	2026	2,119	562,489	
COLUMBIA BASIN	2027	8,171	570,660	
LOWER TETON	2027	17,793	588,453	
COLUMBIA BASIN	2028	14,159	602,612	
THE DALLES	2028	4,204	606,816	
BAKER	2029	4,092	610,908	
LOWER TETON	2029	9,705	620,613	
RATHDRUM PRAIRIE, EAST GREENACRES	2030	2,432	623,045	
COLUMBIA BASIN	2031	15,606	638,651	
COLUMBIA BASIN	2035	12,038	650,689	
CHIEF JOSEPH DAM, WHITESTONE COULEE UNIT	2036	3,660	654,349	
CHIEF JOSEPH DAM, MANSON UNIT	2036	16,163	670,512	
TUALATIN	2036	9,986	680,498	
RATHDRUM PRAIRIE, EAST GREENACRES	2037	4,720	685,218	
COLUMBIA BASIN	2037	22,069	707,287	
TUALATIN	2039	15,619	722,906	
LOWER TETON	2041	5,931	728,837	
CHIEF JOSEPH DAM, OROVILLE TONASKET	2042	73,699	802,536	
LOWER TETON	2042	6,470	809,006	
LOWER TETON	2043	7,009	816,015	
LOWER TETON	2044	7,009	823,024	
COLUMBIA BASIN	2045	26,329	849,353	

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Table 2 - Irrigation Assistance - Fiscal Year 1997
(All Projects Except Columbia Basin Project)

Project	Irrigated Acres	Initial Testing Year Calendar Year	Development Period Calendar Year	Water Users Repayment Period Calendar Year	Total Irrigation Allocation (\$1,000)	Irrigation Assistance Required From FCRPS (\$1,000)	Year Assistance Is Due Fiscal Year
In Service as of Sept. 30, 1997							
Boise Project	390,126	--	--	--	69,455	24,999	Pd in 1997
Palisades	528,397	--	--	1961-2000	26,287	16,560	2001
Avondale	922	--	--	1964-2003	573	184	2004
Dalton Gardens	944	--	--	1964-2003	564	208	2004
Rathdrum Prairie, Hayden Lake	5,010	--	None	1964-2003	1,730	347	2004
Mann Creek Project	5,110	1967	None	1968-2007	3,763	2,950	2008
Spokane Valley Project	7,241	1966-68	None	1969-2008	5,132	2,007	2009
Yakima Project, Roza Division							
Block 1	9,292	--	--	1942-2016	--	718	2017
Block 2	6,628	--	--	1943-2017	--	513	2018
Block 3	4,858	--	--	1944-2018	--	375	2019
Block 4	17,976	--	--	1946-2020	--	1,390	2021
Blocks 5 & 6	5,362	--	--	1947-2021	--	415	2022
Block 7	27,395	--	--	1951-2025	--	2,119	2026
Total	71,511				24,519	5,530	
Chief Joseph Dam Project							
Greater Wenas Division							
Block 1 East Unit	--	1963	1964-66	1967-2016	--	1,071	2017
Blocks 2&3 East & Howard Flat	--	1963	1964-73	1974-2023	--	1,943	2024
Block 4 Brays Landing	--	1965	1966-75	1976-2025	--	953	2026
Total	7,104				8,664	3,967	
Chief Joseph Dam Project							
Foster Creek Division							
Bridgeport Bar Dist.	--	1957	1958-67	1968-2017	780	680	2018
Brewster Flat Dist.	--	1958	1959-68	1969-2018	2,591	1,125	2019
Total	2,854				3,371	1,805	
Michaud Flats Project	11,000	1958	1959-68	1969-2018	5,009	2,079	2019
Michaud-Fort Hall	--	--	--	--	--	2,079	2019
Crooked River Project	20,410	--	1963-69	1970-2019	5,524	2,635	2020
Yakima Project, Kennewick Div.	19,171	1957	1958-67	1968-2023	11,798	5,041	2024
Crooked River Project							
Crooked River Extension	2,890	1967	1968-74	1975-2024	1,684	1,184	2025

Table 2 (continued)

Project	Irrigated Acres	Initial Testing Year Calendar Year	Development Period Calendar Year	Water Users Repayment Period Calendar Year	Total Irrigation Allocation (\$1,000)	Irrigation Assistance Required From FCRRPS (\$1,000)	Year Assistance Is Due Fiscal Year
The Dalles Project Western Division	5,420	1965	1965-77	1976-2007	6,624	4,204	2028
Baker Project, Upper Division	18,000	1968	1969-78	1979-2028	5,451	4,092	2029
Chief Joseph Dam Project Chelan Division, Manson Unit	6,055	1975	1976-85	1986-2035	18,823	16,163	2036
Rathdrum Prairie Project East Greensand Unit Block 2	1,780	1976	1977-79	1980-2029	--	2,432	2030
Block 2	3,530	1976	1977-86	1987-2036	--	4,720	2037
Total	5,310				8,211	7,152	
Chief Joseph Dam Project Whitestone Coulee Unit Block 1	1,270	1975	None	1976-2025	4,274	3,810	2026
Block 2	1,220	1975	1976-85	1986-2035	4,106	3,660	2036
Total	2,490				8,380	7,470	
Tualatin Project Block 1	6,670	1975	1976-85	1986-2035	--	9,986	2036
Block 2	10,330	1978	1979-88	1989-2038	--	15,619	2039
Total	17,000				31,479	25,605	
Chief Joseph Dam Project 1/ Oroville-Tonasket Unit Ext.	10,000	1987	--	1992-2041	86,054	1/ 73,699	2041
Teton Basin Project Lower Teton Division 2/ Block 1	--	1976	None	1977-2026	--	2/ 17,793	2027
Block 2	--	1978	None	1979-2028	--	9,705	2029
Block 3	--	1980	1981-90	1991-2040	--	5,931	2041
Block 4	--	1981	1982-91	1992-2041	--	6,470	2042
Block 5	--	1982	1983-92	1993-2042	--	7,009	2043
Block 6	--	1983	1984-93	1994-2043	--	7,009	2044
Total	148,210				74,720	53,817	

1/ Public Law 105-9, April 14, 1997, transferred title of the project irrigation works to the Oroville Tonasket Irrigation District. Per Section 5(c), the amount or timing of the irrigation assistance obligation by BPA is not changed.

2/ Due to the failure of Teton Dam, all construction work on the project has been terminated. Data reflect the project as scoped prior to failure. The final determination of project cost repayment has not been made.

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**TABLE 3
COLUMBIA BASIN PROJECT - Fy 1997
ASSISTANCE FROM FEDERAL COLUMBIA RIVER POWER SYSTEM (FCRPS)**

IRRIGATION BLOCKS	FIRST DEVELOPMENT YEAR	FIRST YEAR OF REPAYMENT	IRRIGABLE ACRES	COST ALLOCATED TO BLOCK	REPAYMENT FROM FCRPS	
	(Cal Year)	(Cal Year)			AMOUNT	YEAR DUE
				\$	\$	(Fiscal Year)
1	1949	1959	5,790	6,627,000	5,702,000	2009
2	1952	1962	1,319	1,022,000	811,000	2012
40,41,70,701,71,72	1953	1963	65,544	60,288,000	49,796,000	2013
11,42,49,73	1954	1964	58,506	57,905,000	48,554,000	2014
12,15,43,74,75	1955	1965	58,017	63,374,000	54,101,000	2015
13,16,44,76,78	1956	1966	67,866	75,111,000	64,264,000	2016
19,45,86,87	1957	1967	54,823	69,220,000	60,457,000	2017
421,47,89	1958	1968	29,073	28,914,000	24,267,000	2018
3,14,18,401,46,77,79	1959	1969	57,210	70,487,000	61,343,000	2019
20,85	1960	1970	24,738	38,062,000	34,108,000	2020
62,881	1961	1971	11,295	17,241,000	15,436,000	2021
201,63,88	1962	1972	15,330	17,866,000	15,416,000	2022
80	1963	1973	11,000	11,421,000	9,663,000	2023
23	1964	1974	8,770	15,490,000	14,088,000	2024
17	1965	1975	14,006	19,343,000	17,104,000	2025
741,81	1966	1976	14,527	14,316,000	11,994,000	2026
161	1967	1977	4,425	8,878,000	8,171,000	2027
21,48	1968	1978	7,874	15,417,000	14,159,000	2028
NONE	1969	1979	0	0	0	2029
NONE	1970	1980	0	0	0	2030
25	1971	1981	11,867	17503000	15,606,000	2031
NONE	1972	1982	0	0	0	2032
NONE	1973	1983	0	0	0	2033
NONE	1974	1984	0	0	0	2034
251	1975	1985	8,752	13437000	12,038,000	2035
NONE	1976	1986	0	0	0	2036
253,24	1977	1987	13,607	24244000	22,009,000	2037
NONE	1978	1988	0	0	0	2038
NONE	1979	1989	0	0	0	2039
NONE	1980	1990	0	0	0	2040
NONE	1981	1991	0	0	0	2041
NONE	1982	1992	0	0	0	2042
NONE	1983	1993	0	0	0	2043
NONE	1984	1994	0	0	0	2044
26,461(PART 1)	1985	1995	13,668	28,515,000	26,329,000	2045
TOTALS			558,106	674,681,000	585,476,000	

<u>Allocation and Assistance Summary</u>	<u>\$ Amount</u>
Total Cost Allocated To Irrigation, adjusted for MWSC	674,681,427
Less Repayments	
Irrigation	
Base Contract Charge + Part Time Farms	73,946,750
Other Repayment	
State of Washington and misc. contributions	15,259,000

Equals Assistance Required (FCRPS)	585,475,677
rounded	585,476,000

FCRPS/CBIAT397.wb3

The following letter from the Bureau of Reclamation, including the enclosed tables, reflects the Irrigation Assistance that will be included in repayment studies for Final Proposal.



FOR REPLY
REFER TO:

PN-3324
WTR-4.00

United States Department of the Interior

BUREAU OF RECLAMATION
Pacific Northwest Region
1130 North Curtis Road, Suite 100
Boise, Idaho 83706-1254

DEC 11 2002

Mr. Steve Wright, Administrator
Attention: Mr. Jerry Dinan, KSRD-2
Bonneville Power Administration
P.O. Box 3621
Portland, OR 97208-3621

Subject: Federal Columbia River Power System, Assistance to Authorized Bureau of
Reclamation Irrigation Projects in the Pacific Northwest, Fiscal Year 2001

Dear Mr. Wright:

Enclosed are three tables which summarize the schedule for repayment of irrigation assistance from the Federal Columbia River Power System (FCRPS) to authorized irrigation projects in the Pacific Northwest Region of the Bureau of Reclamation. This information is being furnished as requested by your letter of September 7, 1966, and your agency's annual call for project cost data on Reclamation projects that are part of the FCRPS.

Table 1 is a summary, in chronological order, for all authorized projects. Table 2 contains more detailed data for all projects except the Columbia Basin Project. Table 3 contains the detailed information for the Columbia Basin Project. The data on irrigation assistance reflects Reclamation cost data for fiscal year 2001.

The data furnished for fiscal year 2001 contains several noteworthy details. As shown, data for the Boise and Palisades Projects reflects that irrigation assistance was due and paid by the Bonneville Power Administration (BPA) in 1977 and 2001, respectively. Public Law 105-9, April 14, 1997, titled the Oroville-Tonasket Claim Settlement and Conveyance Act, transferred title of the irrigation works of the Oroville-Tonasket Project to the Oroville-Tonasket Irrigation District. Section 5(c) of the Act provided that the transfer of title shall not affect the timing and amount of the irrigation assistance obligation of BPA as determined by the Secretary of the Interior. Finally, data for the Columbia Basin Project reflects the current developed platted acreage (558,106 acres). Although the project is authorized to serve over a million acres, Reclamation is currently not requesting Congressional appropriations for construction of the "second half" of the project. Should conditions change, the "second half" of the project could be added to the list.

Four authorized projects are excluded from the list. These projects are the Salmon Falls Division of the Upper Snake River Project; the Rogue River Basin Project, Merlin Division; the Walla Walla Project, Touchet Division; and the Yakima Project, Kennewick Division Extension. If these projects become active in the future, they will be rescheduled and added to the list.

If you have any questions about this data, please call Al Reiners at 208-378-5344.

Sincerely,

A handwritten signature in black ink that reads "J. William McDonald". The signature is written in a cursive style with a large, looping "J" and "M".

J. William McDonald
Regional Director

Enclosures - 3

TABLE 1. --SUMMARY OF FINANCIAL ASSISTANCE TO IRRIGATION - FY 2001
FEDERAL COLUMBIA RIVER POWER SYSTEM (FCRPS)
 Authorized Projects, Thru Sept. 30, 2001

PROJECT	FISCAL YEAR DUE	Assistance Required	
		AMOUNT (\$1,000)	CUMULATIVE (\$1,000)
BOISE	paid - 1997	24,999	24,999
PALISADES	paid - 2001	16,943	41,942
AVONDALE	2004	184	42,126
DALTON GARDENS	2004	208	42,334
RATHDRUM PRAIRIE	2004	347	42,681
MANN CREEK	2008	2,950	45,631
COLUMBIA BASIN	2009	5,408	51,037
SPOKANE VALLEY	2009	2,007	53,044
COLUMBIA BASIN	2012	776	53,820
COLUMBIA BASIN	2013	45,911	99,731
COLUMBIA BASIN	2014	44,207	143,938
COLUMBIA BASIN	2015	45,250	189,188
COLUMBIA BASIN	2016	57,929	247,117
COLUMBIA BASIN	2017	53,790	300,907
GREATER WENATCHEE	2017	1,071	301,978
YAKIMA,ROZA	2017	1,018	302,996
COLUMBIA BASIN	2018	22,299	325,294
FOSTER CREEK	2018	674	325,968
YAKIMA,ROZA	2018	705	326,673
COLUMBIA BASIN	2019	53,402	380,075
FOSTER CREEK	2019	1,125	381,200
MICHAUD FLATS	2019	2,079	383,279
MICHAUD-FORT HALL	2019	2,079	385,358
YAKIMA,ROZA	2019	548	385,906
COLUMBIA BASIN	2020	31,318	417,224
CROOKED RIVER	2020	2,563	419,787
COLUMBIA BASIN	2021	13,189	432,976
YAKIMA,ROZA	2021	1,959	434,935
COLUMBIA BASIN	2022	13,069	448,004
YAKIMA,ROZA	2022	627	448,631
COLUMBIA BASIN	2023	8,710	457,341
COLUMBIA BASIN	2024	13,476	470,817
GREATER WENATCHEE	2024	1,943	472,760
YAKIMA,KENNEWICK	2024	6,621	479,381
COLUMBIA BASIN	2025	10,406	489,787
CROOKED RIVER EXT	2025	1,184	490,971
WHITESTONE COULEE UNIT	2026	3,810	494,781
COLUMBIA BASIN	2026	10,718	505,499
GREATER WENATCHEE	2026	953	506,452
YAKIMA,ROZA	2026	2,979	509,431
COLUMBIA BASIN	2027	4,153	513,584
LOWER TETON	2027	17,793	531,377
COLUMBIA BASIN	2028	8,716	540,093
THE DALLES	2028	4,203	544,296
BAKER	2029	4,092	548,388
LOWER TETON	2029	9,705	558,093
EAST GREENACRES	2030	2,358	560,451
COLUMBIA BASIN	2031	12,369	572,820
COLUMBIA BASIN	2035	8,692	581,512
WHITESTONE COULEE UNIT	2036	3,660	585,172
MANSON UNIT	2036	16,163	601,335
TUALATIN	2036	10,005	611,340
EAST GREENACRES	2037	4,576	615,916
COLUMBIA BASIN	2037	17,555	633,471
TUALATIN	2039	15,651	649,122
LOWER TETON	2041	5,931	655,053
DROVILLE TONASKET	2042	73,699	728,752
LOWER TETON	2042	6,470	735,222
LOWER TETON	2043	7,009	742,231
LOWER TETON	2044	7,009	749,240
COLUMBIA BASIN	2045	22,123	771,363

Note: Bonneville does not include the \$53,917,000 assistance for Lower Teton which was never completed and has never produced electricity, therefore has no obligation to recover those costs

Table 2 -- Irrigation Assistance -- Fiscal Year 2001
(All Projects Except Columbia Basin Project)

Project	Irrigated Acres	Initial Testing Year Calendar Year	Development Period Calendar Year	Water Users Repayment Period Calendar Year	Total Irrigation Allocation (\$1,000)	Irrigation Assistance Required From FCRPS (\$1,000)	Year Assistance Is Due Fiscal Year
In Service as of Sept. 30, 2001							
Boise Project	390,126	--	--	--	69,629	24,999	Pd in 1997
Palisades	528,397	--	--	1961-2000	30,725	16,943	Pd in 2001
Avondale	922	--	--	1964-2003	573	184	2004
Dalton Gardens	944	--	--	1964-2003	564	208	2004
Rathdrum Prairie, Hayden Lake	5,010	--	None	1964-2003	1,730	347	2004
Mann Creek Project	5,110	1967	None	1968-2007	3,763	2,950	2008
Spokane Valley Project	7,241	1965-68	None	1969-2008	5,132	2,007	2009
Yakima Project, Roza Division							
Block 1	9,292	--	--	1942-2016	--	1,018	2017
Block 2	6,628	--	--	1943-2017	--	705	2018
Block 3	4,858	--	--	1944-2018	--	548	2019
Block 4	17,976	--	--	1946-2020	--	1,959	2021
Blocks 5 & 6	5,362	--	--	1947-2021	--	627	2022
Block 7	27,395	--	--	1951-2025	--	2,979	2025
Total	71,511				26,510	7,836	
Chief Joseph Dam Project							
Greater Wenatchee Division							
Block 1 East Unit	--	1963	1964-66	1967-2016	--	1,071	2017
Blocks 2&3 East & Howard Flat	--	1963	1964-73	1974-2023	--	1,943	2024
Block 4 Brays Landing	--	1965	1966-75	1976-2025	--	953	2025
Total	7,104				8,664	3,967	
Chief Joseph Dam Project							
Foster Creek Division							
Bridgeport Bar Dist.	--	1957	1958-67	1968-2017	760	674	2018
Brewster Flat Dist.	--	1958	1959-68	1969-2018	2,591	1,125	2019
Total	2,854				3,371	1,799	
Michaud Flats Project	11,000	1958	1959-68	1969-2018	5,009	2,079	2019
Michaud-Fort Hall	--	--	--	--	--	2,079	2019
Crooked River Project	20,410	--	1963-69	1970-2019	7,438	2,563	2020
Yakima Project, Kennewick Div.	19,171	1957	1958-67	1958-2023	11,680	6,621	2024
Crooked River Project							
Crooked River Extension	2,890	1967	1968-74	1975-2024	1,684		2025

Table 2 (continued)

Project	Irrigated Acres	Initial Testing Year Calendar Year	Development Period Calendar Year	Water Users Repayment Period Calendar Year	Total Irrigation Allocation (\$1,000)	Irrigation Assistance Required From FCRPS (\$1,000)	Year Assistance Is Due Fiscal Year
The Dalles Project Western Division	5,420	1965	1968-77	1978-2007	6,824	4,203	2028
Baker Project, Upper Division	18,000	1968	1969-78	1979-2028	5,225	4,092	2029
Chief Joseph Dam Project Chelan Division, Manson Unit	6,055	1975	1976-85	1986-2035	10,823	16,163	2036
Rathdrum Prairie Project East Greenacres Unit							
Block 1	1,780	1976	1977-79	1980-2029		2,358	
Block 2	3,530	1976	1977-86	1987-2036	--	4,576	
Total	5,310				8,211	6,934	
Chief Joseph Dam Project Whitestone Coulee Unit							
Block 1	1,270	1975	None	1976-2025	4,274	3,810	
Block 2	1,220	1975	1976-85	1986-2035	4,106	3,690	
Total	2,490				8,380	7,470	
Tualatin Project							
Block 1	6,670	1975	1976-85	1986-2035	--	10,005	
Block 2	10,330	1978	1979-88	1989-2038	--	15,651	
Total	17,000				31,529	25,656	
Chief Joseph Dam Project 1/ Oroville-Tonasket Unit Ext.	10,000	1987		1992-2041	85,054	73,699	
Teton Basin Project Lower Teton Division 2/							
Block 1	--	1976	None	1977-2026	--	17,793	2027
Block 2	--	1978	None	1979-2028	--	9,705	2029
Block 3	--	1980	1981-90	1991-2040	--	5,931	2041
Block 4	--	1981	1982-91	1992-2041	--	6,470	2042
Block 5	--	1982	1983-92	1993-2042	--	7,009	2043
Block 6	--	1983	1984-93	1994-2043	--	7,009	2044
Total	148,210				74,720	53,917	

1/ Public Law 105-9, April 14, 1997, transferred title of the project irrigation works to the Oroville-Tonasket Irrigation District. Per Section 5(c), the amount or timing of the irrigation assistance obligation by BPA is not changed.

2/ Due to the failure of Teton Dam, all construction work on the project has been terminated. Data reflect the project as scoped prior to failure. The final determination of project cost repayment has not been made.

Table 3
Columbia Basin Project - Fiscal Year 2001
Assistance To Irrigation From Federal Columbia River Power System

Block	First Develop. Year (Cal. Year)	First Year of Repayment (Cal. Year)	Irrigable Acres	Cost Allocated To Block \$	Repayment From FCRPS	
					Amount \$	Year Due (Fiscal Year)
1	1949	1959	5,790	6,330,999	5,406,545	2,009
2	1952	1962	1,319	987,056	776,232	2,012
40,41,70,701,71,72	1953	1963	65,844	56,403,274	45,910,963	2,013
11,42,49,73	1954	1964	58,506	53,558,640	44,207,242	2,014
12,15,43,74,75	1955	1965	58,017	54,523,373	45,250,136	2,015
13,16,44,76,78	1956	1966	67,866	68,776,479	57,929,011	2,016
19,45,86,87	1957	1967	54,823	62,552,612	53,789,892	2,017
421,47,89	1958	1968	29,073	26,944,568	22,297,640	2,018
3,14,18,401,46,77,79	1959	1969	57,210	62,548,570	53,402,321	2,019
20,85	1960	1970	24,738	35,272,005	31,317,968	2,020
82,881	1961	1971	11,285	14,994,724	13,189,370	2,021
201,83,88	1962	1972	15,330	15,519,596	13,069,302	2,022
80	1963	1973	11,000	10,467,745	8,709,543	2,023
23	1964	1974	8,770	14,877,335	13,475,568	2,024
17	1965	1975	14,008	12,645,014	10,406,399	2,025
741,81	1966	1976	14,527	13,040,217	10,718,239	2,026
161	1967	1977	4,425	4,860,741	4,153,496	2,027
21,48	1968	1978	7,874	9,974,546	8,716,057	2,028
NONE	1969	1979	0	0	0	2,029
NONE	1970	1980	0	0	0	2,030
25	1971	1981	11,867	14,265,302	12,368,586	2,031
NONE	1972	1982	0	0	0	2,032
NONE	1973	1983	0	0	0	2,033
NONE	1974	1984	0	0	0	2,034
251	1975	1985	8,752	10,080,530	8,891,577	2,035
NONE	1976	1986	0	0	0	2,036
253,24	1977	1987	13,607	19,729,738	17,554,874	2,037
NONE	1978	1988	0	0	0	2,038
NONE	1979	1989	0	0	0	2,039
NONE	1980	1990	0	0	0	2,040
NONE	1981	1991	0	0	0	2,041
NONE	1982	1992	0	0	0	2,042
NONE	1983	1993	0	0	0	2,043
NONE	1984	1994	0	0	0	2,044
26,461(PART 1)	1985	1995	13,668	24,307,909	22,123,280	2,045
TOTALS			558,106	582,668,973	500,463,181	

Allocation and Assistance Summary

Allocation To Irrigation	\$642,164,657
Less: Master Water Service Contract Costs	-\$49,495,697
Equals: Total Irrigation Costs Subject To Irrigation Assistance	\$592,668,970
Less: Part Time Farm Units	-\$500,000
Less: Average Repayment of \$131.60 Per Acre	-\$73,446,789
Less: State of Washington and Misc. Contributions	-\$15,259,000
Total Assistance Required	\$503,463,181