

2002 Final Power Rate Proposal Revenue Requirement Study Documentation Volume 2

WP-02-FS-BPA-02B
May 2000



REVENUE REQUIREMENT STUDY DOCUMENTATION, VOLUME 2

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CHAPTER 1

**REPAYMENT STUDY INPUT FILES
CURRENT STUDY
FY 2002**

**The data in Computer File Form Used in
the FY 2002 Current Repayment Study
for Generation**

1INPUT CARDS ONLY

N1 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL
N2 OCTOBER 1,2001 - SEPTEMBER 30,2002 COST EVALUATION PERIOD
N3 REPAY 02 GI00 - GENERATION, 2002 FINAL RATE PROPOSAL
N0 GENERATION

11999 0 0 770437 200220522052
OHISTORICAL YEAR: 1999
HISTORICAL CUMULATIVE REVENUES: 0
HISTORICAL CUMULATIVE PURCHASE & EXCHANGE: 0
HISTORICAL CUMULATIVE IRRIGATION INVESTMENT: 770437
YEAR OF THE RATE CHANGE: 2002
LAST YEAR OF REPAYMENT PERIOD: 2052

INTEREST RATES OF INTEREST INCOME

1X06839 06827 06914 06931

INTEREST RATES OF NEW DEFERRALS

1Y07500 07625 07500 07250

OPERATING YEAR FACTORS

1F75000 75000 75000 75000

PROJECTED REVENUE

22000	1010505	1004996	1033376	1033376	1033376	1033376	1033376	7182381
22007	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22014	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22021	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22028	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22035	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22042	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22049	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
	8244137	8238628	8267008	8267008	8267008	8267008	8267008	57817805 = TOTAL FOR 2

PROJECTED IRRIGATION ASSISTANCE

	NEW INVESTMENT	NEW INVESTMENT	NEW INVESTMENT	
32000	0	0	0	0
32003	0	0	0	0
32006	0	0	0	0
32009	0	6942	6566	13508
32012	3476	19793	37530	60799
32015	5107	5394	35253	45754
32018	51187	10902	21258	83347
32021	39207	39049	29080	107336
32024	41806	20037	33228	95071
32027	32228	33386	44797	110411

32030	29963	29963	44797		104723
32033	40424	40424	29207		110055
32036	28549	28708	29310		86567
32039	29311	33835	33836		96982
32042	34694	34695	32941		102330
32045	32941	33099	39725		105765
32048	39883	39883	23256		103022
32051	23415	24346	31316		79077
32054	31316	31316	24194		86826
32057	24352	36906	37068		98326
32060	34318				34318
	522177	468678	0		1524217 = TOTAL FOR 3

CAPITALIZED CONTRACTUAL OBLIGATIONS

42000	647803	641433	567253	607002	595031	542149	575913	4176584
42007	592412	604796	587274	585491	605065	627264	384546	3986848
42014	379091	375036	365132	288805	126988	327516	327521	2190089
42021	324582	325080	325303	311838	310946	310390	310390	2218529
42028	310390	310390	309390	309390	309390	309390	309390	2167730
42035	309390	309390	309390	309390	309390	309390	309390	2165730
42042	309390	309390	309390	309390	309390	309390	309390	2165730
42049	309390	309390	309390	309390	0	0	0	1237560
	3182448	3184905	3082522	3030696	2566200	2735489	2526540	20308800 = TOTAL FOR 4

5	ALBE	ALBENI FALLS
5	BOIS	BOISE
5	BON2	BONNEVILLE - 2ND POWER HOUSE
5	BONN	BONNEVILLE
5	CHIE	CHIEF JOSEPH
5	COL3	COLUMBIA BASIN - 3RD PWR HOUSE
5	COLU	COLUMBIA BASIN
5	COUG	COUGAR
5	CRFB	COLUMBIA RIVER FISH MITIGATION
5	DETR	DETROIT-BIG CLIFF
5	DWOR	DWORSHAK
5	GREE	GREEN PETER-FOSTER
5	HILL	HILLS CREEK
5	HUNG	HUNGRY HORSE
5	ICEF	ICE HARBOR FISH BYPASS
5	ICEH	ICE HARBOR
5	JOHN	JOHN DAY
5	LIBB	LIBBY
5	LITF	LITTLE GOOSE FISH BYPASS
5	LITT	LITTLE GOOSE
5	LOGF	LOWER GRANITE FISH BYPASS
5	LOMF	LOWER MONUMENTAL FISH BYPASS
5	LOOK	LOOKOUT POINT-DEXTER
5	LOST	LOST CREEK
5	LOWG	LOWER GRANITE
5	LOWM	LOWER MONUMENTAL

5	LSFW	LOWER SNAKE F AND W
5	MCNA	MCNARY
5	MCNF	MCNARY FISH BYPASS
5	MINI	MINIDOKA
5	STRU	STRUBE
5	THED	THE DALLES
5	YAKC	YAKIMA-CHANDLER
5	YAKR	YAKIMA-ROZA
5	ZABF	BPA PROGRAM
5	ZACO	BPA CONSERVATION
5	ZADB	BUREAU DIRECT FUND
5	ZAFW	FISH, WILDLIFE & ENVIRONMENTAL
5	ZBPA	BONNEVILLE POWER ADMINISTRATION
5	ZIRR	IRRIGATION ASSISTANCE

HISTORICAL

	O & M	INTEREST		
5	ALBEX	46124	28741	74865
5	BOISX	37894	1219	39113
5	BONNX	159278	404368	563646
5	CHIEX	157353	341762	499115
5	COLUX	439614	523602	963216
5	COUGX	8325	14094	22419
5	CRFBX	0	10685	10685
5	DETRX	28066	36358	64424
5	DWORX	86776	181080	267856
5	GREEX	25086	36298	61384
5	HILLX	7982	14445	22427
5	HUNGX	35067	51482	86549
5	ICEHX	68783	103828	172611
5	JOHNX	130461	272420	402881
5	LIBBX	54613	267605	322218
5	LITTX	64213	154450	218663
5	LOOKX	32943	44304	77247
5	LOSTX	14656	16439	31095
5	LOWGX	86708	208147	294855
5	LOWMX	64436	168805	233241
5	LSFWX	109509	108916	218425
5	MCNAX	167850	243309	411159
5	MINIX	79765	2794	82559
5	THEDX	124576	233403	357979
5	YAKCX	19378	2916	22294
5	YAKRX	9178	824	10002
5	ZBPAX	0	0	0
5	ZACOX	0	0	0
	2058634	3472294		5530928 = TOTAL FOR 5

PROJECTED O & M

	0		0 = TOTAL FOR 6
61994ZABF	0		
	0		0 = TOTAL FOR 6

HISTORICAL FEDERAL INVESTMENTS

			ORIGINAL	CURRENT	INTEREST	DUE	INSERVICE	CALENDAR
	PROJECT		PRINCIPAL	PRINCIPAL	RATE	DATE	DATE	MONTH
6	1998	ALBE X	25494	16854	.06910	2005		1955
6	1998	ALBE X	11	11	.06910	2005 R		1956
6	1998	ALBE X	10	10	.06910	2005 R		1957
6	1998	ALBE X	11	11	.06910	2005 R		1958
6	1998	ALBE X	11	11	.06910	2005 R		1959
6	1998	ALBE X	10	10	.06910	2005 R		1960
6	1998	ALBE X	11	11	.06910	2005 R		1961
6	1998	ALBE X	11	11	.06910	2005 R		1962
6	1998	ALBE X	10	10	.06910	2005 R		1963
6	1998	ALBE X	11	11	.06910	2005 R		1964
6	1998	ALBE X	11	11	.06910	2005 R		1965
6	1998	ALBE X	10	10	.06910	2005 R		1966
6	1998	ALBE X	11	11	.06910	2005 R		1967
6	1998	ALBE X	11	11	.06910	2005 R		1968
6	1998	ALBE X	10	10	.06910	2005 R		1969
6	1998	ALBE X	11	11	.06910	2005 R		1970
6	1998	ALBE X	11	11	.06910	2005 R		1971
6	1998	ALBE X	10	10	.06910	2005 R		1972
6	1998	ALBE X	11	11	.06910	2005 R		1973
6	1998	ALBE X	11	11	.06910	2005 R		1974
6	1998	ALBE X	10	10	.06910	2005 R		1975
6	1998	ALBE X	11	11	.06910	2005 R		1976
6	1998	ALBE X	11	11	.06910	2005 R		1977
6	1998	ALBE X	10	10	.06910	2005 R		1978
6	1998	ALBE X	11	11	.06910	2005 R		1979
6	1998	ALBE X	11	11	.06910	2005 R		1980
6	1998	ALBE X	10	10	.06910	2005 R		1981
6	1998	ALBE X	11	11	.06910	2005 R		1982
6	1998	ALBE X	11	11	.06910	2005 R		1983
6	1998	ALBE X	7	7	.06910	2005		1985
6	1998	ALBE X	293	293	.06910	2005		1986
6	1998	ALBE X	15	0	.08875	2005 R		1987
6	1998	ALBE X	12	12	.06910	2005		1987
6	1998	ALBE X	328	0	.08500	2005 R		1988
6	1998	ALBE X	221	0	.09250	2005 R		1989
6	1998	ALBE X	1287	0	.08875	2005		1990
6	1998	ALBE X	43	0	.08750	2005 R		1991
6	1998	ALBE X	111	0	.08750	2005		1991
6	1998	ALBE X	7	0	.08500	2005 R		1992
6	1998	ALBE X	106	0	.08500	2005		1992
6	1998	ALBE X	714	0	.07875	2005 R		1993
6	1998	ALBE X	295	0	.07875	2005		1993
6	1998	ALBE X	61	0	.07125	2019 R		1994
6	1998	ALBE X	173	0	.07125	2019		1994
6	1998	ALBE X	17	17	.07090	2010		1995
6	1998	ALBE X	51	0	.07890	2010		1995

6	1998	ALBE X	443	443	.07150	2045	1995
6	1998	ALBE X	531	531	.07150	2045	1995
6	1998	ALBE X	1105	1105	.07150	2045	1995
6	1998	ALBE X	130	130	.07290	2016	1996
6	1998	ALBE X	477	477	.07150	2047	1997
6	1998	BOIS X	1249	0	.03000	1962	1912
6	1998	BOIS X	285	0	.03000	1962	1912
6	1998	BOIS X	832	0	.03000	1976	1926
6	1998	BOIS X	190	0	.03000	1976	1926
6	1998	BOIS X	416	0	.03000	2000	1950
6	1998	BOIS X	95	0	.03000	2000	1950
6	1998	BOIS X	1873	0	.03000	2001	1951
6	1998	BOIS X	428	0	.03000	2001	1951
6	1998	BOIS X	11	0	.03000	2001 R	1952
6	1998	BOIS X	3	0	.03000	2001 R	1952
6	1998	BOIS X	11	0	.03000	2001 R	1953
6	1998	BOIS X	3	0	.03000	2001 R	1953
6	1998	BOIS X	11	0	.03000	2001 R	1954
6	1998	BOIS X	3	0	.03000	2001 R	1954
6	1998	BOIS X	11	0	.03000	2001 R	1955
6	1998	BOIS X	3	0	.03000	2001 R	1955
6	1998	BOIS X	11	0	.03000	2001 R	1956
6	1998	BOIS X	3	0	.03000	2001 R	1956
6	1998	BOIS X	11	0	.03000	2001 R	1957
6	1998	BOIS X	3	0	.03000	2001 R	1957
6	1998	BOIS X	11	0	.03000	2001 R	1958
6	1998	BOIS X	3	0	.03000	2001 R	1958
6	1998	BOIS X	11	0	.03000	2001 R	1959
6	1998	BOIS X	3	0	.03000	2001 R	1959
6	1998	BOIS X	11	0	.03000	2001 R	1960
6	1998	BOIS X	3	0	.03000	2001 R	1960
6	1998	BOIS X	11	0	.03000	2001 R	1961
6	1998	BOIS X	3	0	.03000	2001 R	1961
6	1998	BOIS X	11	0	.03000	2001 R	1962
6	1998	BOIS X	3	0	.03000	2001 R	1962
6	1998	BOIS X	11	0	.03000	2001 R	1963
6	1998	BOIS X	3	0	.03000	2001 R	1963
6	1998	BOIS X	11	0	.03000	2001 R	1964
6	1998	BOIS X	3	0	.03000	2001 R	1964
6	1998	BOIS X	11	0	.03000	2001 R	1965
6	1998	BOIS X	3	0	.03000	2001 R	1965
6	1998	BOIS X	11	0	.03000	2001 R	1966
6	1998	BOIS X	3	0	.03000	2001 R	1966
6	1998	BOIS X	11	0	.03000	2001 R	1967
6	1998	BOIS X	3	0	.03000	2001 R	1967
6	1998	BOIS X	11	0	.03000	2001 R	1968
6	1998	BOIS X	3	0	.03000	2001 R	1968
6	1998	BOIS X	11	0	.03000	2001 R	1969
6	1998	BOIS X	3	0	.03000	2001 R	1969
6	1998	BOIS X	11	0	.03000	2001 R	1970
6	1998	BOIS X	3	0	.03000	2001 R	1970
6	1998	BOIS X	11	0	.03000	2001 R	1971
6	1998	BOIS X	3	0	.03000	2001 R	1971

6	1998	BOIS X	11	0	.03000	2001 R	1972
6	1998	BOIS X	3	0	.03000	2001 R	1972
6	1998	BOIS X	11	0	.03000	2001 R	1973
6	1998	BOIS X	3	0	.03000	2001 R	1973
6	1998	BOIS X	11	0	.03000	2001 R	1974
6	1998	BOIS X	3	0	.03000	2001 R	1974
6	1998	BOIS X	11	0	.03000	2001 R	1975
6	1998	BOIS X	3	0	.03000	2001 R	1975
6	1998	BOIS X	11	0	.03000	2001 R	1976
6	1998	BOIS X	3	0	.03000	2001 R	1976
6	1998	BOIS X	11	0	.03000	2001 R	1977
6	1998	BOIS X	3	0	.03000	2001 R	1977
6	1998	BOIS X	11	0	.03000	2001 R	1978
6	1998	BOIS X	3	0	.03000	2001 R	1978
6	1998	BOIS X	11	0	.03000	2001 R	1979
6	1998	BOIS X	3	0	.03000	2001 R	1979
6	1998	BOIS X	18	0	.03000	2001 R	1980
6	1998	BOIS X	4	0	.03000	2001 R	1980
6	1998	BOIS X	8	0	.03000	2001 R	1981
6	1998	BOIS X	2	0	.03000	2001 R	1981
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1325	0	.10750	2001 R	1984
6	1998	BOIS X	303	0	.10750	2001 R	1984
6	1998	BOIS X	94	89	.06710	2001	1986
6	1998	BOIS X	3	0	.08500	2001	1988
6	1998	BOIS X	3264	0	.09250	2001 R	1989
6	1998	BOIS X	38	0	.08875	2001 R	1990
6	1998	BOIS X	50	0	.08750	2001 R	1991
6	1998	BOIS X	418	0	.07875	2001	1993
6	1998	BOIS X	7	0	.07125	1999 R	1994
6	1998	BOIS X	450	450	.07150	2046	1996
6	1998	BOIS X	7	7	.06950	2006	1996
6	1998	BOIS X	656	656	.07150	2046	1996
6	1998	BOIS X	9	9	.06950	2007	1997
6	1998	BOIS X	2284	2284	.07150	2047	1997
6	1998	BON2 X	40964	40964	.07150	2031 A	1981
6	1998	BON2 X	455	455	.07150	2031 A	1981
6	1998	BON2 X	203535	203535	.07150	2032 A	1982
6	1998	BON2 X	2264	2264	.07150	2032 A	1982
6	1998	BON2 X	62409	62409	.07150	2033 A	1983
6	1998	BON2 X	694	694	.07150	2033 A	1983
6	1998	BON2 X	9138	9138	.07150	2033 A	1985
6	1998	BON2 X	30578	30578	.07150	2033 A	1986
6	1998	BON2 X	2801	2801	.07150	2033 A	1987
6	1998	BON2 X	1271	1271	.07150	2033 A	1988
6	1998	BON2 X	1232	1232	.07150	2033 A	1989
6	1998	BON2 X	1588	1588	.07150	2033 A	1990
6	1998	BON2 X	3998	0	.08750	2033 A	1991
6	1998	BON2 X	26	0	.08750	2033 R	1991
6	1998	BON2 X	2446	0	.08500	2033 A	1992

6	1998	BON2	X	3668	0	.07875	2033	A	1993
6	1998	BON2	X	5700	5700	.07150	2044	A	1994
6	1998	BON2	X	3791	3791	.07150	2045		1995
6	1998	BON2	X	376	376	.07150	2046		1996
6	1998	BONN	X	11726	0	.02500	1988		1938
6	1998	BONN	X	130	0	.02500	1988		1938
6	1998	BONN	X	17589	0	.02500	1991		1941
6	1998	BONN	X	196	0	.02500	1991		1941
6	1998	BONN	X	5863	0	.02500	1992		1942
6	1998	BONN	X	65	0	.02500	1992		1942
6	1998	BONN	X	17589	0	.02500	1993		1943
6	1998	BONN	X	196	0	.02500	1993		1943
6	1998	BONN	X	5860	0	.02500	1994		1944
6	1998	BONN	X	65	0	.02500	1994		1944
6	1998	BONN	X	82	0	.02500	1994	R	1945
6	1998	BONN	X	1	0	.02500	1994	R	1945
6	1998	BONN	X	81	0	.02500	1994	R	1946
6	1998	BONN	X	1	0	.02500	1994	R	1946
6	1998	BONN	X	82	0	.02500	1994	R	1947
6	1998	BONN	X	1	0	.02500	1994	R	1947
6	1998	BONN	X	81	0	.02500	1994	R	1948
6	1998	BONN	X	1	0	.02500	1994	R	1948
6	1998	BONN	X	82	0	.02500	1994	R	1949
6	1998	BONN	X	1	0	.02500	1994	R	1949
6	1998	BONN	X	81	0	.02500	1994	R	1950
6	1998	BONN	X	11	0	.02500	1994	R	1950
6	1998	BONN	X	81	0	.02500	1994	R	1951
6	1998	BONN	X	11	0	.02500	1994	R	1951
6	1998	BONN	X	82	0	.02500	1994	R	1952
6	1998	BONN	X	1	0	.02500	1994	R	1952
6	1998	BONN	X	81	0	.02500	1994	R	1953
6	1998	BONN	X	1	0	.02500	1994	R	1953
6	1998	BONN	X	82	0	.02500	1994	R	1954
6	1998	BONN	X	1	0	.02500	1994	R	1954
6	1998	BONN	X	81	0	.02500	1994	R	1955
6	1998	BONN	X	1	0	.02500	1994	R	1955
6	1998	BONN	X	81	0	.02500	1994	R	1956
6	1998	BONN	X	1	0	.02500	1994	R	1956
6	1998	BONN	X	82	0	.02500	1994	R	1957
6	1998	BONN	X	1	0	.02500	1994	R	1957
6	1998	BONN	X	81	0	.02500	1994	R	1958
6	1998	BONN	X	1	0	.02500	1994	R	1958
6	1998	BONN	X	82	0	.02500	1994	R	1959
6	1998	BONN	X	1	0	.02500	1994	R	1959
6	1998	BONN	X	81	0	.02500	1994	R	1960
6	1998	BONN	X	1	0	.02500	1994	R	1960
6	1998	BONN	X	81	0	.02500	1994	R	1961
6	1998	BONN	X	1	0	.02500	1994	R	1961
6	1998	BONN	X	82	0	.02500	1994	R	1962
6	1998	BONN	X	1	0	.02500	1994	R	1962
6	1998	BONN	X	81	0	.02500	1994	R	1963
6	1998	BONN	X	1	0	.02500	1994	R	1963
6	1998	BONN	X	82	0	.02500	1994	R	1964

6	1998	BONN	X	1	0	.02500	1994	R	1964
6	1998	BONN	X	81	0	.02500	1994	R	1965
6	1998	BONN	X	1	0	.02500	1994	R	1965
6	1998	BONN	X	81	0	.02500	1994	R	1966
6	1998	BONN	X	1	0	.02500	1994	R	1966
6	1998	BONN	X	82	0	.02500	1994	R	1967
6	1998	BONN	X	1	0	.02500	1994	R	1967
6	1998	BONN	X	81	0	.02500	1994	R	1968
6	1998	BONN	X	1	0	.02500	1994	R	1968
6	1998	BONN	X	82	0	.02500	1994	R	1969
6	1998	BONN	X	1	0	.02500	1994	R	1969
6	1998	BONN	X	81	0	.02500	1994	R	1970
6	1998	BONN	X	1	0	.02500	1994	R	1970
6	1998	BONN	X	81	0	.02500	1994	R	1971
6	1998	BONN	X	1	0	.02500	1994	R	1971
6	1998	BONN	X	82	0	.02500	1994	R	1972
6	1998	BONN	X	1	0	.02500	1994	R	1972
6	1998	BONN	X	81	0	.02500	1994	R	1973
6	1998	BONN	X	1	0	.02500	1994	R	1973
6	1998	BONN	X	82	0	.02500	1994	R	1974
6	1998	BONN	X	1	0	.02500	1994	R	1974
6	1998	BONN	X	81	0	.02500	1994	R	1975
6	1998	BONN	X	1	0	.02500	1994	R	1975
6	1998	BONN	X	81	0	.02500	1994	R	1976
6	1998	BONN	X	1	0	.02500	1994	R	1976
6	1998	BONN	X	15670	15670	.07150	2027	B	1977
6	1998	BONN	X	82	0	.02500	1994	R	1977
6	1998	BONN	X	1	0	.02500	1994	R	1977
6	1998	BONN	X	81	0	.02500	1994	R	1978
6	1998	BONN	X	1	0	.02500	1994	R	1978
6	1998	BONN	X	82	0	.02500	1994	R	1979
6	1998	BONN	X	1	0	.02500	1994	R	1979
6	1998	BONN	X	81	0	.02500	1994	R	1980
6	1998	BONN	X	1	0	.02500	1994	R	1980
6	1998	BONN	X	81	0	.02500	1994	R	1981
6	1998	BONN	X	1	0	.02500	1994	R	1981
6	1998	BONN	X	82	0	.02500	1994	R	1982
6	1998	BONN	X	2	0	.02500	1994	R	1982
6	1998	BONN	X	81	0	.02500	1994	R	1983
6	1998	BONN	X	1	0	.02500	1994	R	1983
6	1998	BONN	X	873	0	.10750	1994	R	1984
6	1998	BONN	X	10	0	.10750	1994	R	1984
6	1998	BONN	X	119	0	.02500	1994		1985
6	1998	BONN	X	454	0	.11375	1994	R	1986
6	1998	BONN	X	555	0	.02500	1994		1986
6	1998	BONN	X	26	0	.08875	1994	R	1987
6	1998	BONN	X	260	0	.02500	1994		1987
6	1998	BONN	X	4199	0	.08500	1994		1988
6	1998	BONN	X	10	0	.08500	1994	R	1988
6	1998	BONN	X	877	0	.09250	1994	R	1989
6	1998	BONN	X	519	0	.08875	1994	R	1990
6	1998	BONN	X	651	0	.08875	1994	A	1990
6	1998	BONN	X	35	0	.08750	1994	R	1991

6	1998	BONN	X	3193	0	.08750	1994	1991
6	1998	BONN	X	99	0	.08500	1994	R 1992
6	1998	BONN	X	25	0	.08500	1994	1992
6	1998	BONN	X	5011	0	.07875	2018	1993
6	1998	BONN	X	536	0	.07125	2029	A 1994
6	1998	BONN	X	8	0	.07330	2000	1995
6	1998	BONN	X	20	20	.07250	2020	1995
6	1998	BONN	X	22	22	.07250	2020	R 1995
6	1998	BONN	X	25	25	.07090	2010	R 1995
6	1998	BONN	X	53	0	.07860	2030	1995
6	1998	BONN	X	98	0	.07860	2035	1995
6	1998	BONN	X	327	243	.07150	2045	1995
6	1998	BONN	X	410	410	.07150	2045	R 1995
6	1998	BONN	X	374	0	.07860	2045	R 1995
6	1998	BONN	X	440	440	.07150	2045	R 1995
6	1998	BONN	X	18	18	.07150	2046	1996
6	1998	BONN	X	18	18	.07150	2046	1996
6	1998	BONN	X	22	22	.07150	2031	1996
6	1998	BONN	X	80	80	.07150	2046	1996
6	1998	BONN	X	109	109	.07150	2046	1996
6	1998	BONN	X	142	142	.07150	2046	1996
6	1998	BONN	X	223	223	.07150	2046	1996
6	1998	BONN	X	751	751	.07150	2046	1996
6	1998	BONN	X	834	834	.07290	2016	R 1996
6	1998	BONN	X	1322	1322	.07150	2046	R 1996
6	1998	BONN	X	122	122	.07230	2022	1997
6	1998	BONN	X	518	518	.07150	2032	1997
6	1998	BONN	X	161	161	.07150	2047	1997
6	1999	BONN	X	29984	29984	.05325	2044	1999
6	1998	CHIE	X	28313	2262	.06910	2005	1955
6	1998	CHIE	X	13643	13643	.06950	2006	1956
6	1998	CHIE	X	39586	39586	.06980	2007	1957
6	1998	CHIE	X	31901	31901	.07020	2008	1958
6	1998	CHIE	X	223	223	.07020	2008	R 1959
6	1998	CHIE	X	223	223	.07020	2008	R 1960
6	1998	CHIE	X	223	223	.07020	2008	R 1961
6	1998	CHIE	X	223	223	.07020	2008	R 1962
6	1998	CHIE	X	224	224	.07020	2008	R 1963
6	1998	CHIE	X	223	223	.07020	2008	R 1964
6	1998	CHIE	X	223	223	.07020	2008	R 1965
6	1998	CHIE	X	223	223	.07020	2008	R 1966
6	1998	CHIE	X	223	223	.07020	2008	R 1967
6	1998	CHIE	X	224	224	.07020	2008	R 1968
6	1998	CHIE	X	223	223	.07020	2008	R 1969
6	1998	CHIE	X	223	223	.07020	2008	R 1970
6	1998	CHIE	X	223	223	.07020	2008	R 1971
6	1998	CHIE	X	223	223	.07020	2008	R 1972
6	1998	CHIE	X	224	224	.07020	2008	R 1973
6	1998	CHIE	X	223	223	.07020	2008	R 1974
6	1998	CHIE	X	223	223	.07020	2008	R 1975
6	1998	CHIE	X	223	223	.07020	2008	R 1976
6	1998	CHIE	X	30512	30512	.07150	2027	A 1977
6	1998	CHIE	X	223	223	.07020	2008	R 1977

6	1998	CHIE X	75669	75669	.07150	2028 A	1978
6	1998	CHIE X	224	224	.07020	2008 R	1978
6	1998	CHIE X	60079	60079	.07150	2029 A	1979
6	1998	CHIE X	223	223	.07020	2008 R	1979
6	1998	CHIE X	223	223	.07020	2008 R	1980
6	1998	CHIE X	223	223	.07020	2008 R	1981
6	1998	CHIE X	223	223	.07020	2008 R	1982
6	1998	CHIE X	224	224	.07020	2008 R	1983
6	1998	CHIE X	909	0	.10750	2008 R	1984
6	1998	CHIE X	16372	16372	.07150	2029 A	1985
6	1998	CHIE X	46	46	.07020	2008	1985
6	1998	CHIE X	5363	5363	.07150	2029 A	1986
6	1998	CHIE X	104	0	.08875	2008 R	1987
6	1998	CHIE X	3036	3036	.07150	2029 A	1987
6	1998	CHIE X	2722	2722	.07150	2029 A	1988
6	1998	CHIE X	327	0	.09250	2008 R	1989
6	1998	CHIE X	2227	2227	.07150	2029 A	1989
6	1998	CHIE X	4505	4505	.07150	2029	1990
6	1998	CHIE X	1024	0	.08875	2008 A	1990
6	1998	CHIE X	3840	0	.08750	2029 A	1991
6	1998	CHIE X	34	0	.08750	2008 R	1991
6	1998	CHIE X	293	0	.08750	2008	1991
6	1998	CHIE X	2032	0	.08500	2029 A	1992
6	1998	CHIE X	142	0	.08500	2008 R	1992
6	1998	CHIE X	717	0	.08500	2008	1992
6	1998	CHIE X	42	0	.07875	2008 R	1993
6	1998	CHIE X	794	0	.07875	2008	1993
6	1998	CHIE X	1360	0	.07875	2029 A	1993
6	1998	CHIE X	129	0	.07125	2029	1994
6	1998	CHIE X	65	0	.07125	2029 R	1994
6	1998	CHIE X	4280	4017	.07150	2044 A	1994
6	1998	CHIE X	15	15	.07090	2010	1995
6	1998	CHIE X	147	147	.07150	2045	1995
6	1998	CHIE X	562	562	.07150	2045	1995
6	1998	CHIE X	712	712	.07150	2045 R	1995
6	1998	CHIE X	784	784	.07150	2045	1995
6	1998	CHIE X	3	3	.07150	2046 R	1996
6	1998	CHIE X	4	4	.07150	2046 R	1996
6	1998	CHIE X	27	27	.07150	2031 R	1996
6	1998	CHIE X	355	355	.07150	2046	1996
6	1998	CHIE X	729	729	.07150	2046	1996
6	1998	CHIE X	166	166	.07150	2032	1997
6	1998	CHIE X	657	657	.07150	2047	1997
6	1998	COL3 X	47328	36690	.07160	2025 A	1975
6	1998	COL3 X	8702	7435	.07160	2025 A	1975
6	1998	COL3 X	41330	41330	.07150	2026 A	1976
6	1998	COL3 X	8037	8037	.07150	2026 A	1976
6	1998	COL3 X	42764	42764	.07150	2027 A	1977
6	1998	COL3 X	7964	7964	.07150	2027 A	1977
6	1998	COL3 X	42399	42399	.07150	2028 A	1978
6	1998	COL3 X	7896	7896	.07150	2028 A	1978
6	1998	COL3 X	84118	84118	.07150	2029 A	1979
6	1998	COL3 X	15666	15666	.07150	2029 A	1979

6	1998	COL3	X	712	712	.07150	2033	B	1983
6	1998	COL3	X	13003	13003	.07150	2033	A	1983
6	1998	COL3	X	16965	16965	.07150	2033	A	1984
6	1998	COL3	X	13192	13192	.07150	2033	A	1984
6	1998	COL3	X	3160	3160	.07150	2033	A	1984
6	1998	COL3	X	41772	41772	.07150	2033	A	1985
6	1998	COL3	X	107	107	.07150	2033		1985
6	1998	COL3	X	2060	2060	.07150	2033		1985
6	1998	COL3	X	15538	15538	.07150	2033	A	1986
6	1998	COL3	X	1851	1851	.07150	2033	A	1986
6	1998	COL3	X	14439	14439	.07150	2033	A	1987
6	1998	COL3	X	1730	1730	.07150	2033	A	1987
6	1998	COL3	X	4351	4351	.07150	2033	A	1988
6	1998	COL3	X	2294	2294	.07150	2033	A	1988
6	1998	COL3	X	10902	10902	.07150	2033	A	1989
6	1998	COL3	X	6383	6383	.07150	2033	A	1990
6	1998	COL3	X	39	0	.08750	2033	A	1991
6	1998	COL3	X	1360	0	.08500	2033	A	1992
6	1998	COL3	X	12962	0	.07875	2033	A	1993
6	1998	COL3	X	12631	12631	.07150	2044	A	1994
6	1998	COLU	X	10919	0	.03000	1991		1941
6	1998	COLU	X	1505	0	.03000	1991		1941
6	1998	COLU	X	16165	0	.03000	1992		1942
6	1998	COLU	X	3011	0	.03000	1992		1942
6	1998	COLU	X	8083	0	.03000	1993		1943
6	1998	COLU	X	1505	0	.03000	1993		1943
6	1998	COLU	X	16165	0	.03000	1994		1944
6	1998	COLU	X	3011	0	.03000	1994		1944
6	1998	COLU	X	24247	0	.03000	1998		1948
6	1998	COLU	X	4516	0	.03000	1998		1948
6	1998	COLU	X	24247	0	.03000	1999		1949
6	1998	COLU	X	4516	0	.03000	1999		1949
6	1998	COLU	X	16165	0	.03000	2000		1950
6	1998	COLU	X	3011	0	.03000	2000		1950
6	1998	COLU	X	28255	7719	.06710	2001		1951
6	1998	COLU	X	5790	1437	.06710	2001		1951
6	1998	COLU	X	258	258	.06710	2001	R	1952
6	1998	COLU	X	48	48	.06710	2001	R	1952
6	1998	COLU	X	258	258	.06710	2001	R	1953
6	1998	COLU	X	48	48	.06710	2001	R	1953
6	1998	COLU	X	258	258	.06710	2001	R	1954
6	1998	COLU	X	48	48	.06710	2001	R	1954
6	1998	COLU	X	258	258	.06710	2001	R	1955
6	1998	COLU	X	48	48	.06710	2001	R	1955
6	1998	COLU	X	259	259	.06710	2001	R	1956
6	1998	COLU	X	48	48	.06710	2001	R	1956
6	1998	COLU	X	258	258	.06710	2001	R	1957
6	1998	COLU	X	48	48	.06710	2001	R	1957
6	1998	COLU	X	258	258	.06710	2001	R	1958
6	1998	COLU	X	48	48	.06710	2001	R	1958
6	1998	COLU	X	258	258	.06710	2001	R	1959
6	1998	COLU	X	48	48	.06710	2001	R	1959
6	1998	COLU	X	258	258	.06710	2001	R	1960

6	1998	COLU X	48	48	.06710	2001 R	1960
6	1998	COLU X	259	259	.06710	2001 R	1961
6	1998	COLU X	48	48	.06710	2001 R	1961
6	1998	COLU X	258	258	.06710	2001 R	1962
6	1998	COLU X	48	48	.06710	2001 R	1962
6	1998	COLU X	258	258	.06710	2001 R	1963
6	1998	COLU X	48	48	.06710	2001 R	1963
6	1998	COLU X	258	258	.06710	2001 R	1964
6	1998	COLU X	48	48	.06710	2001 R	1964
6	1998	COLU X	258	258	.06710	2001 R	1965
6	1998	COLU X	48	48	.06710	2001 R	1965
6	1998	COLU X	259	258	.06710	2001 R	1966
6	1998	COLU X	48	48	.06710	2001 R	1966
6	1998	COLU X	258	258	.06710	2001 R	1967
6	1998	COLU X	758	758	.07290	2017 B	1967
6	1998	COLU X	48	48	.06710	2001 R	1967
6	1998	COLU X	258	258	.06710	2001 R	1968
6	1998	COLU X	48	48	.06710	2001 R	1968
6	1998	COLU X	258	258	.06710	2001 R	1969
6	1998	COLU X	48	48	.06710	2001 R	1969
6	1998	COLU X	258	258	.06710	2001 R	1970
6	1998	COLU X	48	48	.06710	2001 R	1970
6	1998	COLU X	259	259	.06710	2001 R	1971
6	1998	COLU X	48	48	.06710	2001 R	1971
6	1998	COLU X	258	258	.06710	2001 R	1972
6	1998	COLU X	48	48	.06710	2001 R	1972
6	1998	COLU X	258	258	.06710	2001 R	1973
6	1998	COLU X	48	48	.06710	2001 R	1973
6	1998	COLU X	258	258	.06710	2001 R	1974
6	1998	COLU X	48	48	.06710	2001 R	1974
6	1998	COLU X	258	258	.06710	2001 R	1975
6	1998	COLU X	48	48	.06710	2001 R	1975
6	1998	COLU X	259	259	.06710	2001 R	1976
6	1998	COLU X	48	48	.06710	2001 R	1976
6	1998	COLU X	258	258	.06710	2001 R	1977
6	1998	COLU X	48	48	.06710	2001 R	1977
6	1998	COLU X	258	258	.06710	2001 R	1978
6	1998	COLU X	48	48	.06710	2001 R	1978
6	1998	COLU X	258	258	.06710	2001 R	1979
6	1998	COLU X	48	48	.06710	2001 R	1979
6	1998	COLU X	258	258	.06710	2001 R	1980
6	1998	COLU X	48	48	.06710	2001 R	1980
6	1998	COLU X	259	259	.06710	2001 R	1981
6	1998	COLU X	48	48	.06710	2001 R	1981
6	1998	COLU X	258	258	.06710	2001 R	1982
6	1998	COLU X	48	48	.06710	2001 R	1982
6	1998	COLU X	258	258	.06710	2001 R	1983
6	1998	COLU X	48	48	.06710	2001 R	1983
6	1998	COLU X	7815	0	.10750	2001 R	1984
6	1998	COLU X	1455	0	.10750	2001 R	1984
6	1998	COLU X	7338	0	.12375	2001 R	1985
6	1998	COLU X	236	236	.06710	2001	1985
6	1998	COLU X	362	0	.12375	2001	1985

6	1998	COLU X	11	11	.06710	2001	1985
6	1998	COLU X	127	127	.06710	2001	1986
6	1998	COLU X	13	13	.06710	2001	1987
6	1998	COLU X	184	0	.08500	2001 R	1988
6	1998	COLU X	2	0	.08500	2001 R	1988
6	1998	COLU X	1166	0	.09250	2001 R	1989
6	1998	COLU X	928	0	.08875	2001 R	1990
6	1998	COLU X	177	0	.08750	2001	1991
6	1998	COLU X	1661	0	.08750	2001 R	1991
6	1998	COLU X	445	0	.08500	2001 R	1992
6	1998	COLU X	652	0	.08500	2001 R	1992
6	1998	COLU X	795	45	.06710	2001	1993
6	1998	COLU X	20	0	.07860	2030	1995
6	1998	COLU X	25	25	.07150	2030	1995
6	1998	COLU X	25	25	.06620	2000	1995
6	1998	COLU X	206	0	.07250	2020	1995
6	1998	COLU X	270	0	.07860	2030	1995
6	1998	COLU X	321	0	.07860	2030 R	1995
6	1998	COLU X	323	0	.07860	2030 R	1995
6	1998	COLU X	450	0	.07860	2045 R	1995
6	1998	COLU X	292	292	.07150	2045 R	1995
6	1998	COLU X	2511	2453	.07150	2045	1995
6	1998	COLU X	76	76	.07150	2026	1996
6	1998	COLU X	109	109	.07150	2031	1996
6	1998	COLU X	251	251	.07150	2031	1996
6	1998	COLU X	426	426	.07150	2046	1996
6	1998	COLU X	368	368	.07150	2046	1996
6	1998	COLU X	3393	3393	.07150	2047	1997
6	1998	COUG X	10414	9042	.07230	2014	1964
6	1998	COUG X	20	20	.07230	2014 R	1965
6	1998	COUG X	20	20	.07230	2014 R	1966
6	1998	COUG X	20	20	.07230	2014 R	1967
6	1998	COUG X	20	20	.07230	2014 R	1968
6	1998	COUG X	20	20	.07230	2014 R	1969
6	1998	COUG X	20	20	.07230	2014 R	1970
6	1998	COUG X	20	20	.07230	2014 R	1971
6	1998	COUG X	20	20	.07230	2014 R	1972
6	1998	COUG X	20	20	.07230	2014 R	1973
6	1998	COUG X	19	19	.07230	2014 R	1974
6	1998	COUG X	20	20	.07230	2014 R	1975
6	1998	COUG X	20	20	.07230	2014 R	1976
6	1998	COUG X	20	20	.07230	2014 R	1977
6	1998	COUG X	20	20	.07230	2014 R	1978
6	1998	COUG X	20	20	.07230	2014 R	1979
6	1998	COUG X	20	20	.07230	2014 R	1980
6	1998	COUG X	20	20	.07230	2014 R	1981
6	1998	COUG X	20	20	.07230	2014 R	1982
6	1998	COUG X	20	20	.07230	2014 R	1983
6	1998	COUG X	1	0	.10750	2014 R	1984
6	1998	COUG X	1	1	.07230	2014	1985
6	1998	COUG X	55	0	.11375	2014 R	1986
6	1998	COUG X	104	104	.07230	2014	1986
6	1998	COUG X	45	45	.07230	2014	1987

6	1998	COUG X	2	0	.08500	2014	1988
6	1998	COUG X	6	0	.09250	2014 R	1989
6	1998	COUG X	10	0	.08875	2014 R	1990
6	1998	COUG X	1015	0	.08750	2014 R	1991
6	1998	COUG X	1	0	.08750	2014	1991
6	1998	COUG X	2	0	.08500	2014 R	1992
6	1998	COUG X	539	0	.07875	2014	1993
6	1998	COUG X	31	0	.07125	2019 A	1994
6	1998	COUG X	3	0	.07330	2000	1995
6	1998	COUG X	26	26	.07150	2047	1997
6	1998	CRFB X	3969	0	.08500	2041	1991
6	1998	CRFB X	874	0	.08500	2042	1992
6	1998	CRFB X	85846	0	.08500	2043	1993
6	1998	CRFB X	39454	0	.08500	2044	1994
6	1998	CRFB X	43343	703	.07150	2045	1995
6	1998	CRFB X	42357	42357	.07150	2046	1996
6	1999	CRFB X	20689	20689	.05325	2049	1999
6	1998	DETR X	12533	3078	.06840	2003	1953
6	1998	DETR X	20162	20162	.06880	2004	1954
6	1998	DETR X	18	18	.06880	2004 R	1955
6	1998	DETR X	19	19	.06880	2004 R	1956
6	1998	DETR X	18	18	.06880	2004 R	1957
6	1998	DETR X	19	19	.06880	2004 R	1958
6	1998	DETR X	18	18	.06880	2004 R	1959
6	1998	DETR X	19	19	.06880	2004 R	1960
6	1998	DETR X	18	18	.06880	2004 R	1961
6	1998	DETR X	19	19	.06880	2004 R	1962
6	1998	DETR X	18	18	.06880	2004 R	1963
6	1998	DETR X	19	19	.06880	2004 R	1964
6	1998	DETR X	18	18	.06880	2004 R	1965
6	1998	DETR X	19	19	.06880	2004 R	1966
6	1998	DETR X	18	18	.06880	2004 R	1967
6	1998	DETR X	19	19	.06880	2004 R	1968
6	1998	DETR X	18	18	.06880	2004 R	1969
6	1998	DETR X	19	19	.06880	2004 R	1970
6	1998	DETR X	18	18	.06880	2004 R	1971
6	1998	DETR X	19	19	.06880	2004 R	1972
6	1998	DETR X	18	18	.06880	2004 R	1973
6	1998	DETR X	19	19	.06880	2004 R	1974
6	1998	DETR X	18	18	.06880	2004 R	1975
6	1998	DETR X	19	19	.06880	2004 R	1976
6	1998	DETR X	18	18	.06880	2004 R	1977
6	1998	DETR X	19	19	.06880	2004 R	1978
6	1998	DETR X	18	18	.06880	2004 R	1979
6	1998	DETR X	19	19	.06880	2004 R	1980
6	1998	DETR X	18	18	.06880	2004 R	1981
6	1998	DETR X	19	19	.06880	2004 R	1982
6	1998	DETR X	18	18	.06880	2004 R	1983
6	1998	DETR X	21	0	.10750	2004 R	1984
6	1998	DETR X	6	6	.06880	2004	1985
6	1998	DETR X	38	0	.11375	2004 R	1986
6	1998	DETR X	233	0	.08875	2004 R	1987
6	1998	DETR X	3	3	.06880	2004	1987

6	1998	DETR	X	68	0	.08500	2004	R	1988
6	1998	DETR	X	26	0	.09250	2004	R	1989
6	1998	DETR	X	115	0	.08875	2004		1990
6	1998	DETR	X	9	0	.08750	2004	R	1991
6	1998	DETR	X	20	0	.08750	2004		1991
6	1998	DETR	X	8	0	.08500	2004		1992
6	1998	DETR	X	211	0	.07875	2004		1993
6	1998	DETR	X	7	0	.07125	1999	R	1994
6	1998	DETR	X	38	38	.07150	2045		1995
6	1998	DETR	X	13	0	.07330	2000		1995
6	1998	DETR	X	24	24	.06950	2006		1996
6	1998	DWOR	X	138443	132996	.07190	2023		1973
6	1998	DWOR	X	836	803	.07190	2023		1973
6	1998	DWOR	X	515	515	.07190	2023	R	1974
6	1998	DWOR	X	3	3	.07190	2023	R	1974
6	1998	DWOR	X	518	518	.07190	2023	R	1975
6	1998	DWOR	X	3	3	.07190	2023	R	1975
6	1998	DWOR	X	518	518	.07190	2023	R	1976
6	1998	DWOR	X	3	3	.07190	2023	R	1976
6	1998	DWOR	X	518	518	.07190	2023	R	1977
6	1998	DWOR	X	3	3	.07190	2023	R	1977
6	1998	DWOR	X	518	518	.07190	2023	R	1978
6	1998	DWOR	X	3	3	.07190	2023	R	1978
6	1998	DWOR	X	518	518	.07190	2023	R	1979
6	1998	DWOR	X	3	3	.07190	2023	R	1979
6	1998	DWOR	X	518	518	.07190	2023	R	1980
6	1998	DWOR	X	3	3	.07190	2023	R	1980
6	1998	DWOR	X	518	518	.07190	2023	R	1981
6	1998	DWOR	X	3	3	.07190	2023	R	1981
6	1998	DWOR	X	518	518	.07190	2023	R	1982
6	1998	DWOR	X	3	3	.07190	2023	R	1982
6	1998	DWOR	X	523	523	.07190	2023	R	1983
6	1998	DWOR	X	3	3	.07190	2023	R	1983
6	1998	DWOR	X	2499	0	.10750	2023	R	1984
6	1998	DWOR	X	15	0	.10750	2023	R	1984
6	1998	DWOR	X	1141	1141	.07190	2023		1985
6	1998	DWOR	X	197	197	.07190	2023		1986
6	1998	DWOR	X	65	0	.08875	2023	R	1987
6	1998	DWOR	X	30	5	.07190	2023		1987
6	1998	DWOR	X	61	0	.08500	2023	R	1988
6	1998	DWOR	X	63	0	.09250	2023	R	1989
6	1998	DWOR	X	245	0	.08875	2023	R	1990
6	1998	DWOR	X	24	0	.08875	2023		1990
6	1998	DWOR	X	224	0	.08750	2023		1991
6	1998	DWOR	X	4	0	.02625	2023		1992
6	1998	DWOR	X	28	0	.08500	2023	R	1992
6	1998	DWOR	X	24	0	.08500	2023		1992
6	1998	DWOR	X	41	0	.07875	2023	R	1993
6	1998	DWOR	X	1872	0	.07875	2023		1993
6	1998	DWOR	X	1351	0	.07125	2029	R	1994
6	1998	DWOR	X	964	0	.07125	2029	A	1994
6	1998	DWOR	X	55	0	.07930	2020		1995
6	1998	DWOR	X	218	218	.07150	2030		1995

6	1998	DWOR	X	1162	1162	.07150	2045	1995
6	1998	DWOR	X	3	3	.07150	2046	1996
6	1998	DWOR	X	4	4	.07150	2046	1996
6	1998	DWOR	X	6	6	.07150	2031	1996
6	1998	DWOR	X	26	26	.07230	2021	1996
6	1998	DWOR	X	46	46	.07150	2046	1996
6	1998	DWOR	X	107	107	.07130	2011	1996
6	1998	DWOR	X	184	184	.07230	2021	1996
6	1998	DWOR	X	203	203	.07150	2031	1996
6	1998	DWOR	X	7588	7588	.07150	2047	1997
6	1998	GREE	X	12892	11919	.07290	2017	1967
6	1998	GREE	X	12180	12180	.07280	2018	1968
6	1998	GREE	X	39	39	.07280	2018	R 1969
6	1998	GREE	X	40	40	.07280	2018	R 1970
6	1998	GREE	X	39	39	.07280	2018	R 1971
6	1998	GREE	X	39	39	.07280	2018	R 1972
6	1998	GREE	X	39	39	.07280	2018	R 1973
6	1998	GREE	X	39	39	.07280	2018	R 1974
6	1998	GREE	X	39	39	.07280	2018	R 1975
6	1998	GREE	X	39	39	.07280	2018	R 1976
6	1998	GREE	X	39	39	.07280	2018	R 1977
6	1998	GREE	X	39	39	.07280	2018	R 1978
6	1998	GREE	X	39	39	.07280	2018	R 1979
6	1998	GREE	X	40	40	.07280	2018	R 1980
6	1998	GREE	X	39	39	.07280	2018	R 1981
6	1998	GREE	X	39	39	.07280	2018	R 1982
6	1998	GREE	X	39	39	.07280	2018	R 1983
6	1998	GREE	X	15	0	.10750	2018	R 1984
6	1998	GREE	X	16	16	.07280	2018	1985
6	1998	GREE	X	3	0	.11375	2018	R 1986
6	1998	GREE	X	3	3	.07280	2018	1986
6	1998	GREE	X	2	0	.08875	2018	R 1987
6	1998	GREE	X	1	1	.07280	2018	1987
6	1998	GREE	X	13	0	.08500	2018	1988
6	1998	GREE	X	24	0	.09250	2018	R 1989
6	1998	GREE	X	5	0	.08875	2018	1990
6	1998	GREE	X	48	0	.08750	2018	1991
6	1998	GREE	X	2	0	.08500	2018	1992
6	1998	GREE	X	41	0	.07875	2018	1993
6	1998	GREE	X	6	0	.07125	1999	A 1994
6	1998	GREE	X	4	0	.07330	2000	1995
6	1998	GREE	X	11	11	.07250	2020	1995
6	1998	GREE	X	24	24	.07250	2020	1995
6	1998	GREE	X	26	26	.07150	2046	1996
6	1998	HILL	X	10353	9264	.07160	2012	1962
6	1998	HILL	X	12	12	.07160	2012	R 1963
6	1998	HILL	X	13	13	.07160	2012	R 1964
6	1998	HILL	X	13	13	.07160	2012	R 1965
6	1998	HILL	X	13	13	.07160	2012	R 1966
6	1998	HILL	X	13	13	.07160	2012	R 1967
6	1998	HILL	X	13	13	.07160	2012	R 1968
6	1998	HILL	X	13	13	.07160	2012	R 1969
6	1998	HILL	X	13	13	.07160	2012	R 1970

6	1998	HILL X	13	13	.07160	2012 R	1971
6	1998	HILL X	13	13	.07160	2012 R	1972
6	1998	HILL X	13	13	.07160	2012 R	1973
6	1998	HILL X	13	13	.07160	2012 R	1974
6	1998	HILL X	13	13	.07160	2012 R	1975
6	1998	HILL X	13	13	.07160	2012 R	1976
6	1998	HILL X	13	13	.07160	2012 R	1977
6	1998	HILL X	13	13	.07160	2012 R	1978
6	1998	HILL X	13	13	.07160	2012 R	1979
6	1998	HILL X	13	13	.07160	2012 R	1980
6	1998	HILL X	13	13	.07160	2012 R	1981
6	1998	HILL X	13	13	.07160	2012 R	1982
6	1998	HILL X	13	13	.07160	2012 R	1983
6	1998	HILL X	52	0	.10750	2012 R	1984
6	1998	HILL X	6	6	.07160	2012	1985
6	1998	HILL X	3	0	.08875	2012 R	1987
6	1998	HILL X	3	0	.08500	2012 R	1988
6	1998	HILL X	3	0	.08875	2012	1990
6	1998	HILL X	17	0	.08750	2012	1991
6	1998	HILL X	1	0	.08500	2012	1992
6	1998	HILL X	13	0	.07875	2012	1993
6	1998	HILL X	28	28	.07150	2046	1996
6	1998	HUNG X	71160	16359	.06840	2003	1953
6	1998	HUNG X	2126	490	.06840	2003	1953
6	1998	HUNG X	17	17	.06840	2003 R	1954
6	1998	HUNG X	1	1	.06840	2003 R	1954
6	1998	HUNG X	17	17	.06840	2003 R	1955
6	1998	HUNG X	1	1	.06840	2003 R	1955
6	1998	HUNG X	17	17	.06840	2003 R	1956
6	1998	HUNG X	1	1	.06840	2003 R	1956
6	1998	HUNG X	18	18	.06840	2003 R	1957
6	1998	HUNG X	1	1	.06840	2003 R	1957
6	1998	HUNG X	18	18	.06840	2003 R	1958
6	1998	HUNG X	1	1	.06840	2003 R	1958
6	1998	HUNG X	18	18	.06840	2003 R	1959
6	1998	HUNG X	1	1	.06840	2003 R	1959
6	1998	HUNG X	18	18	.06840	2003 R	1960
6	1998	HUNG X	1	1	.06840	2003 R	1960
6	1998	HUNG X	18	18	.06840	2003 R	1961
6	1998	HUNG X	1	1	.06840	2003 R	1961
6	1998	HUNG X	18	18	.06840	2003 R	1962
6	1998	HUNG X	1	1	.06840	2003 R	1962
6	1998	HUNG X	18	18	.06840	2003 R	1963
6	1998	HUNG X	1	1	.06840	2003 R	1963
6	1998	HUNG X	17	17	.06840	2003 R	1964
6	1998	HUNG X	1	1	.06840	2003 R	1964
6	1998	HUNG X	17	17	.06840	2003 R	1965
6	1998	HUNG X	1	1	.06840	2003 R	1965
6	1998	HUNG X	17	17	.06840	2003 R	1966
6	1998	HUNG X	1	1	.06840	2003 R	1966
6	1998	HUNG X	18	18	.06840	2003 R	1967
6	1998	HUNG X	1	1	.06840	2003 R	1967
6	1998	HUNG X	18	18	.06840	2003 R	1968

6	1998	HUNG X	1	1	.06840	2003 R	1968
6	1998	HUNG X	18	18	.06840	2003 R	1969
6	1998	HUNG X	1	1	.06840	2003 R	1969
6	1998	HUNG X	18	18	.06840	2003 R	1970
6	1998	HUNG X	1	1	.06840	2003 R	1970
6	1998	HUNG X	18	18	.06840	2003 R	1971
6	1998	HUNG X	1	1	.06840	2003 R	1971
6	1998	HUNG X	18	18	.06840	2003 R	1972
6	1998	HUNG X	1	1	.06840	2003 R	1972
6	1998	HUNG X	18	18	.06840	2003 R	1973
6	1998	HUNG X	1	1	.06840	2003 R	1973
6	1998	HUNG X	17	17	.06840	2003 R	1974
6	1998	HUNG X	1	1	.06840	2003 R	1974
6	1998	HUNG X	17	17	.06840	2003 R	1975
6	1998	HUNG X	1	1	.06840	2003 R	1975
6	1998	HUNG X	10	10	.06840	2003 R	1976
6	1998	HUNG X	1	1	.06840	2003 R	1976
6	1998	HUNG X	18	18	.06840	2003 R	1977
6	1998	HUNG X	1	1	.06840	2003 R	1977
6	1998	HUNG X	18	18	.06840	2003 R	1978
6	1998	HUNG X	1	1	.06840	2003 R	1978
6	1998	HUNG X	18	18	.06840	2003 R	1979
6	1998	HUNG X	1	1	.06840	2003 R	1979
6	1998	HUNG X	18	18	.06840	2003 R	1980
6	1998	HUNG X	1	1	.06840	2003 R	1980
6	1998	HUNG X	22	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1982
6	1998	HUNG X	12	12	.06840	2003 R	1983
6	1998	HUNG X	1	1	.06840	2003 R	1983
6	1998	HUNG X	32	0	.10750	2003 R	1984
6	1998	HUNG X	1	0	.10750	2003 R	1984
6	1998	HUNG X	36	0	.12375	2003 R	1985
6	1998	HUNG X	37	0	.12375	2003 R	1985
6	1998	HUNG X	101	0	.09250	2003 R	1989
6	1998	HUNG X	58	0	.08875	2003 R	1990
6	1998	HUNG X	19	0	.08750	2003 R	1991
6	1998	HUNG X	9	0	.08500	2003	1992
6	1998	HUNG X	4136	0	.07875	2003 R	1993
6	1998	HUNG X	2	0	.07875	2003	1993
6	1998	HUNG X	56	0	.07125	2019 R	1994
6	1998	HUNG X	156	6	.06620	2000 R	1995
6	1998	HUNG X	450	0	.07930	2020 R	1995
6	1998	HUNG X	536	536	.07150	2030 R	1995
6	1998	HUNG X	1198	1195	.07150	2030 R	1995
6	1998	HUNG X	6190	6190	.07150	2045	1995
6	1998	HUNG X	84	84	.06620	2000	1995
6	1998	HUNG X	14354	0	.07860	2045	1995
6	1998	HUNG X	15	15	.07150	2046	1996
6	1998	HUNG X	2	2	.07150	2046	1996
6	1998	HUNG X	154	154	.06950	2007	1997
6	1998	HUNG X	216	216	.07150	2047	1997
6	1998	ICEH X	59669	44308	.07160	2012	1962

6	1996	ICEH X	664	493	.07160	2012	1962
6	1998	ICEH X	46	46	.07160	2012 R	1963
6	1998	ICEH X	1	1	.07160	2012 R	1963
6	1998	ICEH X	46	46	.07160	2012 R	1964
6	1998	ICEH X	1	1	.07160	2012 R	1964
6	1998	ICEH X	46	46	.07160	2012 R	1965
6	1998	ICEH X	1	1	.07160	2012 R	1965
6	1998	ICEH X	46	46	.07160	2012 R	1966
6	1998	ICEH X	1	1	.07160	2012 R	1966
6	1998	ICEH X	46	46	.07160	2012 R	1967
6	1998	ICEH X	1	1	.07160	2012 R	1967
6	1998	ICEH X	46	46	.07160	2012 R	1968
6	1998	ICEH X	1	1	.07160	2012 R	1968
6	1998	ICEH X	46	46	.07160	2012 R	1969
6	1998	ICEH X	1	1	.07160	2012 R	1969
6	1998	ICEH X	46	46	.07160	2012 R	1970
6	1998	ICEH X	1	1	.07160	2012 R	1970
6	1998	ICEH X	46	46	.07160	2012 R	1971
6	1998	ICEH X	1	1	.07160	2012 R	1971
6	1998	ICEH X	46	46	.07160	2012 R	1972
6	1998	ICEH X	1	1	.07160	2012 R	1972
6	1998	ICEH X	46	46	.07160	2012 R	1973
6	1998	ICEH X	1	1	.07160	2012 R	1973
6	1998	ICEH X	46	46	.07160	2012 R	1974
6	1998	ICEH X	1	1	.07160	2012 R	1974
6	1998	ICEH X	46	46	.07160	2012 R	1975
6	1998	ICEH X	1	1	.07160	2012 R	1975
6	1998	ICEH X	20472	20472	.07150	2026 A	1976
6	1998	ICEH X	46	46	.07160	2012 R	1976
6	1998	ICEH X	228	228	.07150	2026 A	1976
6	1998	ICEH X	1	1	.07160	2012 R	1976
6	1998	ICEH X	46	46	.07160	2012 R	1977
6	1998	ICEH X	1	1	.07160	2012 R	1977
6	1998	ICEH X	46	46	.07160	2012 R	1978
6	1998	ICEH X	1	1	.07160	2012 R	1978
6	1998	ICEH X	46	46	.07160	2012 R	1979
6	1998	ICEH X	1	1	.07160	2012 R	1979
6	1998	ICEH X	46	46	.07160	2012 R	1980
6	1998	ICEH X	1	1	.07160	2012 R	1980
6	1998	ICEH X	46	46	.07160	2012 R	1981
6	1998	ICEH X	1	1	.07160	2012 R	1981
6	1998	ICEH X	46	46	.07160	2012 R	1982
6	1998	ICEH X	1	1	.07160	2012 R	1982
6	1998	ICEH X	46	46	.07160	2012 R	1983
6	1998	ICEH X	1	1	.07160	2012 R	1983
6	1998	ICEH X	21	21	.07150	2026 A	1985
6	1998	ICEH X	41	41	.07160	2012	1985
6	1998	ICEH X	137	137	.07160	2012	1986
6	1998	ICEH X	71	0	.08875	2012 R	1987
6	1998	ICEH X	3	3	.07160	2012	1987
6	1998	ICEH X	1	0	.08875	2012	1987
6	1998	ICEH X	8	0	.08500	2012	1988
6	1998	ICEH X	57	0	.08500	2012 R	1988

6	1998	ICEH X	51	0	.09250	2012 R	1989
6	1998	ICEH X	427	0	.08875	2012 R	1990
6	1998	ICEH X	348	0	.08750	2012 R	1991
6	1998	ICEH X	177	0	.08500	2012	1992
6	1998	ICEH X	3192	0	.07875	2012 R	1993
6	1998	ICEH X	1645	0	.07875	2012	1993
6	1998	ICEH X	328	0	.07125	2029 R	1994
6	1998	ICEH X	520	0	.07125	2029 A	1994
6	1998	ICEH X	2	0	.07330	2000 R	1995
6	1998	ICEH X	84	84	.07270	2019	1995
6	1998	ICEH X	171	171	.07270	2019	1995
6	1998	ICEH X	849	849	.07270	2019	1995
6	1998	ICEH X	78	78	.07150	2031	1996
6	1998	ICEH X	371	371	.07150	2041 R	1996
6	1998	ICEH X	66	66	.07230	2022	1997
6	1998	ICEH X	67	67	.07150	2047	1997
6	1998	JOHN X	27254	21686	.07280	2018	1968
6	1998	JOHN X	96104	96104	.07270	2019	1969
6	1998	JOHN X	23656	23656	.07250	2020	1970
6	1998	JOHN X	34974	34974	.07230	2021	1971
6	1998	JOHN X	11502	11502	.07210	2022	1972
6	1998	JOHN X	3677	0	.10750	2022 R	1984
6	1998	JOHN X	1209	0	.12375	2022 R	1985
6	1998	JOHN X	6490	6490	.07210	2022	1985
6	1998	JOHN X	713	0	.11375	2022 R	1986
6	1998	JOHN X	3227	3227	.07210	2022	1986
6	1998	JOHN X	4353	0	.08875	2022 R	1987
6	1998	JOHN X	706	706	.07210	2022	1987
6	1998	JOHN X	332	0	.08500	2022	1988
6	1998	JOHN X	199	0	.08500	2022 R	1988
6	1998	JOHN X	377	0	.09250	2022 R	1989
6	1998	JOHN X	30	30	.07210	2022	1989
6	1998	JOHN X	37	37	.07210	2022	1990
6	1998	JOHN X	543	0	.08875	2022 R	1990
6	1998	JOHN X	13218	0	.08750	2022 R	1991
6	1998	JOHN X	144	0	.08750	2022	1991
6	1998	JOHN X	19	19	.07210	2022	1992
6	1998	JOHN X	95	0	.08500	2022	1992
6	1998	JOHN X	7810	0	.07875	2022 R	1993
6	1998	JOHN X	9585	0	.07875	2022	1993
6	1998	JOHN X	14	0	.07125	2019 R	1994
6	1998	JOHN X	1252	0	.07125	2029 A	1994
6	1998	JOHN X	2	0	.07330	2000	1995
6	1998	JOHN X	9	0	.07330	2000 R	1995
6	1998	JOHN X	22	22	.07150	2035	1995
6	1998	JOHN X	37	37	.07150	2045	1995
6	1998	JOHN X	52	52	.07150	2035	1995
6	1998	JOHN X	79	79	.07250	2020	1995
6	1998	JOHN X	121	121	.07150	2035	1995
6	1998	JOHN X	608	608	.07150	2045	1995
6	1998	JOHN X	7653	7653	.07150	2045 R	1995
6	1998	JOHN X	237	237	.07130	2011	1996
6	1998	JOHN X	1072	1072	.07290	2016	1996

6	1998	JOHN X	133	133	.07230	2022	1997
6	1998	JOHN X	179	179	.07150	2047	1997
6	1998	LIBB X	54644	48138	.07160	2025	1975
6	1998	LIBB X	153432	153432	.07150	2026	1976
6	1998	LIBB X	1465	1465	.07150	2026 R	1977
6	1998	LIBB X	1465	1465	.07150	2026 R	1978
6	1998	LIBB X	1465	1465	.07150	2026 R	1979
6	1998	LIBB X	1465	1465	.07150	2026 R	1980
6	1998	LIBB X	1465	1465	.07150	2026 R	1981
6	1998	LIBB X	1465	1465	.07150	2026 R	1982
6	1998	LIBB X	1465	1465	.07150	2026 R	1983
6	1998	LIBB X	104	0	.10750	2026 R	1984
6	1998	LIBB X	518	518	.07150	2026	1985
6	1998	LIBB X	283	283	.07150	2026	1986
6	1998	LIBB X	2	2	.07150	2026	1987
6	1998	LIBB X	18043	14781	.07150	2038 A	1988
6	1998	LIBB X	35	0	.08505	2026	1988
6	1998	LIBB X	131	0	.09250	2026 R	1989
6	1998	LIBB X	1	1	.07150	2026	1989
6	1998	LIBB X	11	0	.08875	2026	1990
6	1998	LIBB X	134	0	.08750	2026 R	1991
6	1998	LIBB X	100	0	.08500	2026 R	1992
6	1998	LIBB X	70	0	.08500	2026	1992
6	1998	LIBB X	600	0	.07875	2026	1993
6	1998	LIBB X	215	0	.07125	2029 R	1994
6	1998	LIBB X	286	152	.07150	2029 A	1994
6	1998	LIBB X	15	15	.07150	2030 R	1995
6	1998	LIBB X	41	41	.07150	2030	1995
6	1998	LIBB X	94	94	.07150	2030 R	1995
6	1998	LIBB X	432	432	.07230	2022	1997
6	1998	LIBB X	660	660	.07150	2047	1997
6	1998	LITT X	22326	21301	.07250	2020	1970
6	1998	LITT X	42962	42962	.07230	2021	1971
6	1998	LITT X	28	28	.07230	2021 R	1972
6	1998	LITT X	29	29	.07230	2021 R	1973
6	1998	LITT X	28	28	.07230	2021 R	1974
6	1998	LITT X	29	29	.07230	2021 R	1975
6	1998	LITT X	28	28	.07230	2021 R	1976
6	1998	LITT X	29	29	.07230	2021 R	1977
6	1998	LITT X	49578	49578	.07150	2028 A	1978
6	1998	LITT X	28	28	.07230	2021 R	1978
6	1998	LITT X	29	29	.07230	2021 R	1979
6	1998	LITT X	28	28	.07230	2021 R	1980
6	1998	LITT X	29	29	.07230	2021 R	1981
6	1998	LITT X	28	28	.07230	2021 R	1982
6	1998	LITT X	29	29	.07230	2021 R	1983
6	1998	LITT X	201	0	.10750	2021 R	1984
6	1998	LITT X	47	47	.07150	2028 A	1985
6	1998	LITT X	174	174	.07230	2021	1985
6	1998	LITT X	239	239	.07230	2021	1986
6	1998	LITT X	72	0	.08875	2021 R	1987
6	1998	LITT X	6	6	.07230	2021	1987
6	1998	LITT X	12	0	.08500	2021	1988

6	1998	LITT X	68	0	.08500	2021 R	1988
6	1998	LITT X	77	0	.09250	2021 R	1989
6	1998	LITT X	408	0	.08875	2021 R	1990
6	1998	LITT X	21	0	.08875	2021	1990
6	1998	LITT X	266	0	.08750	2021 R	1991
6	1998	LITT X	66	0	.08500	2021 R	1992
6	1998	LITT X	27	0	.08500	2021	1992
6	1998	LITT X	276	0	.07875	2021 R	1993
6	1998	LITT X	3359	0	.07875	2021	1993
6	1998	LITT X	37	0	.07125	2019 R	1994
6	1998	LITT X	2044	0	.07125	2029 A	1994
6	1998	LITT X	17	17	.07150	2040	1995
6	1998	LITT X	450	450	.07150	2040	1995
6	1998	LITT X	733	733	.07150	2040 R	1995
6	1998	LITT X	10	10	.07150	2046	1996
6	1998	LITT X	10	10	.07150	2046 R	1996
6	1998	LITT X	211	211	.07150	2046	1996
6	1998	LITT X	241	241	.07150	2046	1996
6	1998	LITT X	520	520	.07150	2046 R	1996
6	1998	LITT X	3909	3909	.07150	2046 R	1996
6	1998	LITT X	1	1	.07150	2047	1997
6	1998	LOOK X	34290	28417	.06910	2005	1955
6	1998	LOOK X	52	52	.06910	2005 R	1956
6	1998	LOOK X	51	51	.06910	2005 R	1957
6	1998	LOOK X	51	51	.06910	2005 R	1958
6	1998	LOOK X	51	51	.06910	2005 R	1959
6	1998	LOOK X	51	51	.06910	2005 R	1960
6	1998	LOOK X	52	52	.06910	2005 R	1961
6	1998	LOOK X	51	51	.06910	2005 R	1962
6	1998	LOOK X	51	51	.06910	2005 R	1963
6	1998	LOOK X	51	51	.06910	2005 R	1964
6	1998	LOOK X	51	51	.06910	2005 R	1965
6	1998	LOOK X	51	51	.06910	2005 R	1966
6	1998	LOOK X	52	52	.06910	2005 R	1967
6	1998	LOOK X	51	51	.06910	2005 R	1968
6	1998	LOOK X	51	51	.06910	2005 R	1969
6	1998	LOOK X	51	51	.06910	2005 R	1970
6	1998	LOOK X	51	51	.06910	2005 R	1971
6	1998	LOOK X	51	51	.06910	2005 R	1972
6	1998	LOOK X	52	52	.06910	2005 R	1973
6	1998	LOOK X	51	51	.06910	2005 R	1974
6	1998	LOOK X	51	51	.06910	2005 R	1975
6	1998	LOOK X	51	51	.06910	2005 R	1976
6	1998	LOOK X	51	51	.06910	2005 R	1977
6	1998	LOOK X	51	51	.06910	2005 R	1978
6	1998	LOOK X	52	52	.06910	2005 R	1979
6	1998	LOOK X	51	51	.06910	2005 R	1980
6	1998	LOOK X	51	51	.06910	2005 R	1981
6	1998	LOOK X	51	51	.06910	2005 R	1982
6	1998	LOOK X	51	51	.06910	2005 R	1983
6	1998	LOOK X	185	0	.10750	2005 R	1984
6	1998	LOOK X	52	52	.06910	2005	1985
6	1998	LOOK X	42	42	.06910	2005	1986

6	1998	LOOK X	12	0	.08875	2005 R	1987
6	1998	LOOK X	9	9	.06910	2005	1987
6	1998	LOOK X	46	0	.08500	2005	1988
6	1998	LOOK X	17	0	.08500	2005 R	1988
6	1998	LOOK X	23	0	.09250	2005 R	1989
6	1998	LOOK X	147	0	.08875	2005 R	1990
6	1998	LOOK X	4	0	.08875	2005	1990
6	1998	LOOK X	6	0	.08750	2005 R	1991
6	1998	LOOK X	50	0	.08750	2005	1991
6	1998	LOOK X	181	0	.08500	2005 R	1992
6	1998	LOOK X	4	0	.08500	2005	1992
6	1998	LOOK X	18	0	.07875	2005 R	1993
6	1998	LOOK X	189	0	.07875	2005	1993
6	1998	LOOK X	73	0	.07125	2019 A	1994
6	1998	LOOK X	9	0	.07860	2045	1995
6	1998	LOOK X	15	0	.07860	2045	1995
6	1998	LOOK X	31	0	.07860	2045	1995
6	1998	LOOK X	33	33	.07150	2045	1995
6	1998	LOOK X	80	39	.07150	2045	1995
6	1998	LOOK X	157	0	.07860	2045	1995
6	1998	LOST X	13505	13413	.07150	2027	1977
6	1998	LOST X	58	58	.07150	2027 R	1978
6	1998	LOST X	60	60	.07150	2027 R	1979
6	1998	LOST X	60	60	.07150	2027 R	1980
6	1998	LOST X	60	60	.07150	2027 R	1981
6	1998	LOST X	60	60	.07150	2027 R	1982
6	1998	LOST X	60	60	.07150	2027 R	1983
6	1998	LOST X	243	0	.10750	2027 R	1984
6	1998	LOST X	12	12	.07150	2027	1985
6	1998	LOST X	5	0	.11375	2027 R	1986
6	1998	LOST X	6	6	.07150	2027	1986
6	1998	LOST X	3	0	.08875	2027 R	1987
6	1998	LOST X	4	4	.07150	2027	1987
6	1998	LOST X	7	0	.08500	2027	1988
6	1998	LOST X	9	0	.09250	2027 R	1989
6	1998	LOST X	1	0	.08875	2027	1990
6	1998	LOST X	31	0	.08750	2027	1991
6	1998	LOST X	1	0	.08500	2027 R	1992
6	1998	LOST X	1	0	.08500	2027	1992
6	1998	LOST X	1	0	.07875	2027 R	1993
6	1998	LOST X	14	0	.07875	2027	1993
6	1998	LOST X	4	0	.07330	2000	1995
6	1998	LOST X	94	94	.07150	2045	1995
6	1998	LOST X	24	24	.07150	2046	1996
6	1998	LOST X	31	31	.07150	2031	1996
6	1998	LOWG X	119237	117645	.07160	2025	1975
6	1998	LOWG X	510	510	.07160	2025 R	1976
6	1998	LOWG X	510	510	.07160	2025 R	1977
6	1998	LOWG X	40611	40611	.07150	2028 A	1978
6	1998	LOWG X	510	510	.07160	2025 R	1978
6	1998	LOWG X	510	510	.07160	2025 R	1979
6	1998	LOWG X	510	510	.07160	2025 R	1980
6	1998	LOWG X	510	510	.07160	2025 R	1981

6	1998	LOWG X	510	510	.07160	2025 R	1982
6	1998	LOWG X	510	510	.07160	2025 R	1983
6	1998	LOWG X	311	0	.10750	2025 R	1984
6	1998	LOWG X	328	328	.07160	2025	1985
6	1998	LOWG X	4	0	.11375	2025 R	1986
6	1998	LOWG X	215	215	.07160	2025	1986
6	1998	LOWG X	60	0	.08875	2025 R	1987
6	1998	LOWG X	8	8	.07160	2025	1987
6	1998	LOWG X	22	0	.08500	2025	1988
6	1998	LOWG X	95	0	.08500	2025 R	1988
6	1998	LOWG X	112	0	.09250	2025 R	1989
6	1998	LOWG X	392	0	.08875	2025 R	1990
6	1998	LOWG X	281	0	.08750	2025 R	1991
6	1998	LOWG X	6	0	.08750	2025	1991
6	1998	LOWG X	83	0	.08500	2025 R	1992
6	1998	LOWG X	121	0	.08500	2025	1992
6	1998	LOWG X	26	0	.07875	2025 R	1993
6	1998	LOWG X	3272	0	.07875	2025	1993
6	1998	LOWG X	38	0	.07125	2019 R	1994
6	1998	LOWG X	3543	1551	.07150	2029 A	1994
6	1998	LOWG X	77	77	.07290	2017 R	1995
6	1998	LOWG X	96	96	.07160	2025	1995
6	1998	LOWG X	388	388	.07290	2017	1995
6	1998	LOWG X	458	458	.07290	2017	1995
6	1998	LOWG X	9	9	.07150	2046 R	1996
6	1998	LOWG X	206	206	.07150	2031	1996
6	1998	LOWG X	255	255	.07130	2011	1996
6	1998	LOWG X	625	625	.07150	2046	1996
6	1998	LOWG X	677	677	.07150	2047	1997
6	1998	LOWM X	26974	25083	.07270	2019	1969
6	1998	LOWM X	51218	51218	.07250	2020	1970
6	1998	LOWM X	214	214	.07250	2020 R	1971
6	1998	LOWM X	214	214	.07250	2020 R	1972
6	1998	LOWM X	214	214	.07250	2020 R	1973
6	1998	LOWM X	214	214	.07250	2020 R	1974
6	1998	LOWM X	214	214	.07250	2020 R	1975
6	1998	LOWM X	214	214	.07250	2020 R	1976
6	1998	LOWM X	214	214	.07250	2020 R	1977
6	1998	LOWM X	214	214	.07250	2020 R	1978
6	1998	LOWM X	40669	40669	.07150	2029 A	1979
6	1998	LOWM X	214	214	.07250	2020 R	1979
6	1998	LOWM X	214	214	.07250	2020 R	1980
6	1998	LOWM X	214	214	.07250	2020 R	1981
6	1998	LOWM X	214	214	.07250	2020 R	1982
6	1998	LOWM X	214	214	.07250	2020 R	1983
6	1998	LOWM X	256	256	.07150	2029 A	1985
6	1998	LOWM X	8	8	.07250	2020	1985
6	1998	LOWM X	132	132	.07250	2020	1986
6	1998	LOWM X	50	0	.08875	2020 R	1987
6	1998	LOWM X	3	3	.07250	2020	1987
6	1998	LOWM X	1	0	.08500	2020	1988
6	1998	LOWM X	58	0	.08500	2020 R	1988
6	1998	LOWM X	93	0	.09250	2020 R	1989

6	1998	LOWM	X	358	0	.08875	2020	R	1990
6	1998	LOWM	X	594	0	.08750	2020		1991
6	1998	LOWM	X	4484	0	.08500	2020		1992
6	1998	LOWM	X	24	0	.07875	2020	R	1993
6	1998	LOWM	X	2175	0	.07875	2020		1993
6	1998	LOWM	X	107	0	.07125	2019	R	1994
6	1998	LOWM	X	2167	0	.07125	2029	A	1994
6	1998	LOWM	X	6	0	.07330	2000		1995
6	1998	LOWM	X	41	41	.07150	2045		1995
6	1998	LOWM	X	99	99	.07150	2045		1995
6	1998	LOWM	X	624	624	.07150	2045		1995
6	1998	LOWM	X	1122	1122	.07150	2045	R	1995
6	1998	LOWM	X	10	10	.07150	2046		1996
6	1998	LOWM	X	37	37	.07230	2021		1996
6	1998	LOWM	X	51	51	.07230	2021		1996
6	1998	LOWM	X	264	264	.07150	2036	R	1996
6	1998	LOWM	X	668	668	.07290	2016		1996
6	1998	LSFW	X	30983	9967	.07150	2033		1983
6	1998	LSFW	X	47921	47921	.07150	2035		1985
6	1998	LSFW	X	72536	72536	.07150	2037		1987
6	1998	LSFW	X	805	805	.07150	2038		1988
6	1998	LSFW	X	1557	1557	.07150	2040		1990
6	1998	LSFW	X	4411	4411	.07150	2041		1991
6	1998	LSFW	X	71632	71632	.07150	2043		1993
6	1998	LSFW	X	4619	4619	.07150	2044		1994
6	1998	LSFW	X	2162	2162	.07150	2045		1995
6	1998	LSFW	X	10185	10185	.07150	2046		1996
6	1998	LSFW	X	2173	2173	.07150	2047		1997
6	1998	MCNA	X	80256	35757	.06880	2004		1954
6	1998	MCNA	X	53493	53493	.06910	2005		1955
6	1998	MCNA	X	38748	38748	.06950	2006		1956
6	1998	MCNA	X	24985	24985	.06980	2007		1957
6	1998	MCNA	X	468	468	.06980	2007	R	1958
6	1998	MCNA	X	468	468	.06980	2007	R	1959
6	1998	MCNA	X	468	468	.06980	2007	R	1960
6	1998	MCNA	X	468	468	.06980	2007	R	1961
6	1998	MCNA	X	467	467	.06980	2007	R	1962
6	1998	MCNA	X	468	468	.06980	2007	R	1963
6	1998	MCNA	X	468	468	.06980	2007	R	1964
6	1998	MCNA	X	468	468	.06980	2007	R	1965
6	1998	MCNA	X	468	468	.06980	2007	R	1966
6	1998	MCNA	X	467	467	.06980	2007	R	1967
6	1998	MCNA	X	468	468	.06980	2007	R	1968
6	1998	MCNA	X	468	468	.06980	2007	R	1969
6	1998	MCNA	X	468	468	.06980	2007	R	1970
6	1998	MCNA	X	468	468	.06980	2007	R	1971
6	1998	MCNA	X	468	468	.06980	2007	R	1972
6	1998	MCNA	X	467	467	.06980	2007	R	1973
6	1998	MCNA	X	468	468	.06980	2007	R	1974
6	1998	MCNA	X	468	468	.06980	2007	R	1975
6	1998	MCNA	X	468	468	.06980	2007	R	1976
6	1998	MCNA	X	467	467	.06980	2007	R	1977
6	1998	MCNA	X	468	468	.06980	2007	R	1978

6	1998	MCNA X	468	468	.06980	2007 R	1979
6	1998	MCNA X	468	468	.06980	2007 R	1980
6	1998	MCNA X	468	468	.06980	2007 R	1981
6	1998	MCNA X	467	467	.06980	2007 R	1982
6	1998	MCNA X	468	468	.06980	2007 R	1983
6	1998	MCNA X	557	557	.06980	2007	1985
6	1998	MCNA X	454	454	.06980	2007	1986
6	1998	MCNA X	35	0	.08875	2007 R	1987
6	1998	MCNA X	24	24	.06980	2007	1987
6	1998	MCNA X	20	0	.08500	2007	1988
6	1998	MCNA X	50	0	.08500	2007 R	1988
6	1998	MCNA X	130	0	.09250	2007 R	1989
6	1998	MCNA X	2228	0	.08875	2007 R	1990
6	1998	MCNA X	14	0	.08875	2007	1990
6	1998	MCNA X	66	0	.08750	2007 R	1991
6	1998	MCNA X	76	0	.08750	2007	1991
6	1998	MCNA X	222	0	.08500	2007 R	1992
6	1998	MCNA X	125	0	.08500	2007	1992
6	1998	MCNA X	34	0	.07875	2007 R	1993
6	1998	MCNA X	1462	0	.07875	2007	1993
6	1998	MCNA X	1521	0	.07125	2029 A	1994
6	1998	MCNA X	68	0	.07125	2019 R	1994
6	1998	MCNA X	16	16	.07150	2045	1995
6	1998	MCNA X	509	509	.07090	2010	1995
6	1998	MCNA X	3	3	.07130	2011	1996
6	1998	MCNA X	74	74	.07150	2026	1996
6	1998	MCNA X	277	277	.07150	2026	1996
6	1998	MCNA X	619	619	.07150	2046	1996
6	1998	MCNA X	778	778	.06950	2006	1996
6	1998	MCNA X	30	30	.07150	2032	1997
6	1998	MINI X	854	0	.03000	1959	1909
6	1998	MINI X	226	0	.03000	1959	1909
6	1998	MINI X	1709	0	.03000	1960	1910
6	1998	MINI X	451	0	.03000	1960	1910
6	1998	MINI X	1709	0	.03000	1961	1911
6	1998	MINI X	451	0	.03000	1961	1911
6	1998	MINI X	854	0	.03000	1977	1927
6	1998	MINI X	226	0	.03000	1977	1927
6	1998	MINI X	854	0	.03000	1992	1942
6	1998	MINI X	226	0	.03000	1992	1942
6	1998	MINI X	2561	0	.03000	2007	1957
6	1998	MINI X	677	0	.03000	2007	1957
6	1998	MINI X	854	0	.03000	2008	1958
6	1998	MINI X	226	0	.03000	2008	1958
6	1998	MINI X	108	0	.03000	2008 R	1959
6	1998	MINI X	28	0	.03000	2008 R	1959
6	1998	MINI X	108	0	.03000	2008 R	1960
6	1998	MINI X	29	0	.03000	2008 R	1960
6	1998	MINI X	108	0	.03000	2008 R	1961
6	1998	MINI X	29	0	.03000	2008 R	1961
6	1998	MINI X	108	0	.03000	2008 R	1962
6	1998	MINI X	28	0	.03000	2008 R	1962
6	1998	MINI X	108	0	.03000	2008 R	1963

6	1998	MINI X	29	0	.03000	2008 R	1963
6	1998	MINI X	108	0	.03000	2008 R	1964
6	1998	MINI X	28	0	.03000	2008 R	1964
6	1998	MINI X	108	0	.03000	2008 R	1965
6	1998	MINI X	29	0	.03000	2008 R	1965
6	1998	MINI X	108	0	.03000	2008 R	1966
6	1998	MINI X	29	0	.03000	2008 R	1966
6	1998	MINI X	108	0	.03000	2008 R	1967
6	1998	MINI X	28	0	.03000	2008 R	1967
6	1998	MINI X	108	0	.03000	2008 R	1968
6	1998	MINI X	29	0	.03000	2008 R	1968
6	1998	MINI X	3	0	.03000	2008 R	1969
6	1998	MINI X	28	0	.03000	2008 R	1969
6	1998	MINI X	108	0	.03000	2008 R	1970
6	1998	MINI X	29	0	.03000	2008 R	1970
6	1998	MINI X	108	0	.03000	2008 R	1971
6	1998	MINI X	29	0	.03000	2008 R	1971
6	1998	MINI X	108	0	.03000	2008 R	1972
6	1998	MINI X	28	0	.03000	2008 R	1972
6	1998	MINI X	108	0	.03000	2008 R	1973
6	1998	MINI X	29	0	.03000	2008 R	1973
6	1998	MINI X	108	0	.03000	2008 R	1974
6	1998	MINI X	28	0	.03000	2008 R	1974
6	1998	MINI X	108	0	.03000	2008 R	1975
6	1998	MINI X	29	0	.03000	2008 R	1975
6	1998	MINI X	108	0	.03000	2008 R	1976
6	1998	MINI X	29	0	.03000	2008 R	1976
6	1998	MINI X	83	56	.07020	2008 R	1977
6	1998	MINI X	28	0	.07020	2008 R	1977
6	1998	MINI X	75	75	.07020	2008 R	1978
6	1998	MINI X	20	20	.07020	2008 R	1978
6	1998	MINI X	75	75	.07020	2008 R	1979
6	1998	MINI X	19	19	.07020	2008 R	1979
6	1998	MINI X	75	75	.07020	2008 R	1980
6	1998	MINI X	20	20	.07020	2008 R	1980
6	1998	MINI X	75	75	.07020	2008 R	1981
6	1998	MINI X	20	20	.07020	2008 R	1981
6	1998	MINI X	75	75	.07020	2008 R	1982
6	1998	MINI X	19	19	.07020	2008 R	1982
6	1998	MINI X	65	65	.07020	2008 R	1983
6	1998	MINI X	20	20	.07020	2008 R	1983
6	1998	MINI X	44	0	.10750	2008 R	1984
6	1998	MINI X	11	0	.10750	2008 R	1984
6	1998	MINI X	21	21	.07020	2008	1985
6	1998	MINI X	48	0	.11375	2008 R	1986
6	1998	MINI X	21	21	.07020	2008	1986
6	1998	MINI X	16	16	.07020	2008	1987
6	1998	MINI X	31	0	.08500	2008	1988
6	1998	MINI X	20	0	.09250	2008 R	1989
6	1998	MINI X	33	0	.08875	2008 R	1990
6	1998	MINI X	62	0	.08750	2008 R	1991
6	1998	MINI X	11	0	.08750	2008	1991
6	1998	MINI X	32	0	.08750	2008 R	1991

6	1998	MINI X	6	0	.08500	2008 R	1992
6	1998	MINI X	351	0	.07125	2029	1994
6	1998	MINI X	6	0	.07330	2000	1995
6	1998	MINI X	40	0	.07890	2010 R	1995
6	1998	MINI X	54	54	.07130	2011	1996
6	1998	MINI X	66	66	.06950	2007	1997
6	1998	MINI X	51558	51558	.07150	2047	1997
6	1998	THED X	15908	0	.02500	2007	1957
6	1998	THED X	45837	33988	.07020	2008	1958
6	1998	THED X	40415	40415	.07060	2009	1959
6	1998	THED X	39179	39179	.07090	2010	1960
6	1998	THED X	9492	9492	.07130	2011	1961
6	1998	THED X	56	56	.07130	2011 R	1962
6	1998	THED X	57	57	.07130	2011 R	1963
6	1998	THED X	57	57	.07130	2011 R	1964
6	1998	THED X	56	56	.07130	2011 R	1965
6	1998	THED X	57	57	.07130	2011 R	1966
6	1998	THED X	57	57	.07130	2011 R	1967
6	1998	THED X	56	56	.07130	2011 R	1968
6	1998	THED X	57	57	.07130	2011 R	1969
6	1998	THED X	57	57	.07130	2011 R	1970
6	1998	THED X	56	56	.07130	2011 R	1971
6	1998	THED X	57	57	.07130	2011 R	1972
6	1998	THED X	21983	21983	.07190	2023 A	1973
6	1998	THED X	57	57	.07130	2011 R	1973
6	1998	THED X	7268	7268	.07170	2024 A	1974
6	1998	THED X	56	56	.07130	2011 R	1974
6	1998	THED X	57	57	.07130	2011 R	1975
6	1998	THED X	57	57	.07130	2011 R	1976
6	1998	THED X	56	56	.07130	2011 R	1977
6	1998	THED X	57	57	.07130	2011 R	1978
6	1998	THED X	57	57	.07130	2011 R	1979
6	1998	THED X	56	56	.07130	2011 R	1980
6	1998	THED X	57	57	.07130	2011 R	1981
6	1998	THED X	57	57	.07130	2011 R	1982
6	1998	THED X	56	56	.07130	2011 R	1983
6	1998	THED X	961	0	.10750	2011 R	1984
6	1998	THED X	280	0	.12375	2011 R	1985
6	1998	THED X	95	95	.07130	2011	1985
6	1998	THED X	4	0	.11375	2011 R	1986
6	1998	THED X	95	95	.07130	2011	1986
6	1998	THED X	81	0	.08875	2011 R	1987
6	1998	THED X	1417	1417	.07130	2011	1987
6	1998	THED X	685	0	.08500	2011	1988
6	1998	THED X	1	0	.08500	2011 R	1988
6	1998	THED X	898	0	.09250	2011 R	1989
6	1998	THED X	319	0	.08875	2011 R	1990
6	1998	THED X	745	0	.08875	2011	1990
6	1998	THED X	89	0	.08750	2011 R	1991
6	1998	THED X	2452	0	.08750	2011	1991
6	1998	THED X	57	0	.08500	2011 R	1992
6	1998	THED X	130	0	.08500	2011	1992
6	1998	THED X	2028	0	.07875	2011 R	1993

6	1998	THED X	2929	0	.07875	2011	1993
6	1998	THED X	1425	0	.07125	2029 A	1994
6	1998	THED X	196	196	.07020	2008	1996
6	1998	THED X	457	457	.07130	2011	1996
6	1998	THED X	1991	1991	.07150	2046	1996
6	1998	YAKC X	1068	193	.07210	2022	1956
6	1998	YAKC X	481	216	.07210	2022	1956
6	1998	YAKC X	1	1	.07210	2022 R	1959
6	1998	YAKC X	1	1	.07210	2022 R	1960
6	1998	YAKC X	1	1	.07210	2022 R	1961
6	1998	YAKC X	35	0	.10750	2022 R	1984
6	1998	YAKC X	10	0	.10750	2022 R	1984
6	1998	YAKC X	357	0	.12375	2022 R	1985
6	1998	YAKC X	7	0	.11375	2022 R	1986
6	1998	YAKC X	456	455	.07210	2022	1986
6	1998	YAKC X	126	0	.08875	2022 R	1987
6	1998	YAKC X	18	0	.09250	2022 R	1989
6	1998	YAKC X	40	0	.08875	2022 R	1990
6	1998	YAKC X	109	0	.08750	2022	1991
6	1998	YAKR X	961	533	.07020	2008	1958
6	1998	YAKR X	292	161	.07020	2008	1958
6	1998	YAKR X	17	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.12375	2008 R	1985
6	1998	YAKR X	69	69	.07020	2008	1985
6	1998	YAKR X	6	6	.07020	2008	1986
6	1998	YAKR X	9	0	.08875	2008 R	1987
6	1998	YAKR X	2	2	.07020	2008	1987
6	1998	YAKR X	11	0	.08500	2008	1988
6	1998	YAKR X	17	0	.09250	2008 R	1989
6	1998	YAKR X	76	0	.08750	2008 R	1991

3993273	3102498	908.36050	2668464
		2715584	

890775 = TOTAL FOR 6

6	1998	ZABF X	38	0	.08350	2032	1992	10
6	1998	ZABF X	67	67	.07700	2025	1995	07 05
6	1998	ZABF X	5622	5622	.05900	2003	1996	08 T
6	1998	ZABF X	7400	7400	.06800	2004	1997	01 T
6	1999	ZABF X	11080	11080	.05900	2014	1999	02 T
6	1998	ZACO X	140000	0	.12200	2003	1983	09
6	1998	ZACO X	150000	0	.13050	2004	1984	09
6	1998	ZACO X	-120000	0	.13050	2004	1989	09
6	1998	ZACO X	50000	0	.10150	1990	1985	09 T
6	1998	ZACO X	50000	0	.08150	1996	1986	03 T
6	1998	ZACO X	50000	0	.07800	1991	1986	03 T
6	1998	ZACO X	75000	0	.09300	2007	1987	04
6	1998	ZACO X	-75000	0	.09300	2007	1992	04
6	1998	ZACO X	50000	0	.08350	1992	1987	06 T
6	1998	ZACO X	90000	0	.09900	2008	1988	04
6	1998	ZACO X	40000	40000	.08550	2009	1989	07 T
6	1998	ZACO X	66000	0	.08600	1995	1989	09 T

6	1998	ZACO X	66000	66000	.08650	2002	1989	09	T	
6	1998	ZACO X	100000	0	.07140	2007	1992	07		
6	1998	ZACO X	-100000	0	.07140	2007	1998	09		
6	1998	ZACO X	80200	0	.05800	1997	1992	07	T	
6	1998	ZACO X	50000	0	.08050	2012	1992	10		
6	1998	ZACO X	50000	0	.07400	2013	1993	02		
6	1998	ZACO X	-50000	0	.07400	2013	1998	09		
6	1998	ZACO X	40000	40000	.06750	2013	1993	08		
6	1998	ZACO X	50000	50000	.06750	2014	1994	01		
6	1998	ZACO X	50000	0	.07100	1998	1994	05	01	P
6	1998	ZACO X	85000	85000	.07500	2015	1995	05	05	
6	1998	ZACO X	30000	30000	.06700	2011	1996	01	05	
6	1998	ZACO X	40000	40000	.07200	2017	1996	11	05	
6	1998	ZACO X	37700	37700	.06000	2009	1998	05	T	
6	1998	ZACO X	52800	52800	.05600	2013	1998	09	T	
6	1998	ZACO X	104300	104300	.05300	2008	1998	09	T	
6	1999	ZACO X	6000	6000	.07470	2019	1999	03		
6	1998	ZADB X	35000	35000	.07500	2015	1995	05	05	
6	1998	ZADB X	50000	50000	.06500	2000	1997	05	T	
6	1998	ZADB X	25000	25000	.06000	2008	1998	04		
6	1999	ZADB X	20000	20000	.06400	2004	1999	09	T	
6	1998	ZAFW X	25000	00	.08950	1999	1989	05	T	
6	1998	ZAFW X	50000	0	.07950	1996	1991	05	T	
6	1998	ZAFW X	20000	20000	.06950	2008	1993	02		
6	1998	ZAFW X	20000	0	.07650	1999	1994	09	01	P
6	1998	ZAFW X	22900	22900	.07200	2010	1995	08	05	
6	1998	ZAFW X	60000	60000	.06100	2013	1998	01		
6	1999	ZAFW X	20000	20000	.06300	2003	1999	09	T	
			1630107	828869						
				34.85000			89687			
					90307					

801238 = TOTAL FOR 6

6	1998	ZIRR X	25143	0	.00000	1997	1997			
6	1998	ZIRR X	16560	16560	.00000	2001	1997			
6	1998	ZIRR X	184	184	.00000	2004	1997			
6	1998	ZIRR X	208	208	.00000	2004	1997			
6	1998	ZIRR X	347	347	.00000	2004	1997			
6	1998	ZIRR X	2950	2950	.00000	2008	1997			
6	1998	ZIRR X	5702	5702	.00000	2009	1997			
6	1998	ZIRR X	2007	2007	.00000	2009	1997			
6	1998	ZIRR X	811	811	.00000	2012	1997			
6	1998	ZIRR X	49796	49796	.00000	2013	1997			
6	1998	ZIRR X	48554	48554	.00000	2014	1997			
6	1998	ZIRR X	54101	54101	.00000	2015	1997			
6	1998	ZIRR X	64264	64264	.00000	2016	1997			
6	1998	ZIRR X	60457	60457	.00000	2017	1997			
6	1998	ZIRR X	1071	1071	.00000	2017	1997			
6	1998	ZIRR X	718	718	.00000	2017	1997			
6	1998	ZIRR X	24267	24267	.00000	2018	1997			
6	1998	ZIRR X	680	680	.00000	2018	1997			
6	1998	ZIRR X	513	513	.00000	2018	1997			
6	1998	ZIRR X	61343	61343	.00000	2019	1997			

6	1998	ZIRR X	1125	1125	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	375	375	.00000	2019	1997
6	1998	ZIRR X	34108	34108	.00000	2020	1997
6	1998	ZIRR X	2635	2635	.00000	2020	1997
6	1998	ZIRR X	15436	15436	.00000	2021	1997
6	1998	ZIRR X	1390	1390	.00000	2021	1997
6	1998	ZIRR X	15416	15416	.00000	2022	1997
6	1998	ZIRR X	415	415	.00000	2022	1997
6	1998	ZIRR X	9663	9663	.00000	2023	1997
6	1998	ZIRR X	14088	14088	.00000	2024	1997
6	1998	ZIRR X	1943	1943	.00000	2024	1997
6	1998	ZIRR X	5041	5041	.00000	2024	1997
6	1998	ZIRR X	17104	17104	.00000	2025	1997
6	1998	ZIRR X	1184	1184	.00000	2025	1997
6	1998	ZIRR X	3810	3810	.00000	2026	1997
6	1998	ZIRR X	11994	11994	.00000	2026	1997
6	1998	ZIRR X	953	953	.00000	2026	1997
6	1998	ZIRR X	2119	2119	.00000	2026	1997
6	1998	ZIRR X	8171	8171	.00000	2027	1997
6	1998	ZIRR X	14159	14159	.00000	2028	1997
6	1998	ZIRR X	4204	4204	.00000	2028	1997
6	1998	ZIRR X	4092	4092	.00000	2029	1997
6	1998	ZIRR X	2432	2432	.00000	2030	1997
6	1998	ZIRR X	15606	15606	.00000	2031	1997
6	1998	ZIRR X	12038	12038	.00000	2035	1997
6	1998	ZIRR X	3660	3660	.00000	2036	1997
6	1998	ZIRR X	16163	16163	.00000	2036	1997
6	1998	ZIRR X	9986	9986	.00000	2036	1997
6	1998	ZIRR X	4720	4720	.00000	2037	1997
6	1998	ZIRR X	22069	22069	.00000	2037	1997
6	1998	ZIRR X	15619	15619	.00000	2039	1997
6	1998	ZIRR X	73699	73699	.00000	2042	1997
6	1998	ZIRR X	26329	26329	.00000	2045	1997
			795580	770437			
					.00000		109835
							111197

25143 = TOTAL FOR 6

PROJECTED FEDERAL INVESTMENTS

			ORIGINAL	CURRENT	INTEREST	DUE	INSERVICE	CALENDAR
	PROJECT		PRINCIPAL	PRINCIPAL	RATE	DATE	DATE	MONTH
6	2000	BONN X	23476	23476	.06125	2050	2000	
6	2000	COLU X	1185	1185	.06125	2050	2000	
6	2000	COLU X	817	817	.06125	2050	2000	
6	2000	CRFB X	4541	4541	.06125	2050	2000	
6	2000	ICEH X	696	696	.06125	2050	2000	
6	2000	JOHN X	17643	17643	.06125	2050	2000	
6	2000	LOWG X	1261	1261	.06125	2050	2000	

6	2000	LOWM X	521	521	.06125	2050	2000
6	2000	MCNA X	937	937	.06125	2050	2000
6	2000	MINI X	81	81	.06520	2010	2000
6	2001	BOIS X	27	27	.06190	2011	2001
6	2001	BOIS X	4	4	.06190	2011	2001
6	2001	BONN X	17820	17820	.06390	2051	2001
6	2001	COLU X	3557	3557	.06390	2051	2001
6	2001	COLU X	1163	1163	.06390	2051	2001
6	2001	CRFB X	457474	457474	.06180	2051	2001
6	2001	LSFW X	7649	7649	.05990	2051	2001
6	2001	MINI X	80	80	.06190	2011	2001
6	2001	THED X	12528	12528	.06390	2051	2001
6	2002	BOIS X	27	27	.05940	2012	2002
6	2002	BONN X	8910	8910	.06180	2052	2002
6	2002	COLU X	507	507	.06120	2027	2002
6	2002	COLU X	1162	1162	.06180	2052	2002
6	2002	CRFB X	111042	111042	.06180	2052	2002
6	2002	LSFW X	794	794	.06180	2052	2002
6	2002	MINI X	80	80	.05940	2012	2002
6	2002	THED X	12528	12528	.06180	2052	2002
			686510	686510			
				16.68450			54025
							55110

0 = TOTAL FOR 6

6	2000	ZABF X	4100	4100	.07540	2045	2000	03
6	2000	ZACO X	32555	32555	.07400	2020	2000	03
6	2000	ZADB X	95369	95369	.07540	2045	2000	03
6	2000	ZAFW X	27000	27000	.07240	2015	2000	03
6	2001	ZABF X	7600	7600	.07290	2046	2001	03
6	2001	ZACO X	1000	1000	.07110	2021	2001	03
6	2001	ZADB X	76100	76100	.07290	2046	2001	03
6	2001	ZAFW X	27000	27000	.06920	2016	2001	03
6	2002	ZABF X	2100	2100	.07080	2047	2002	03
6	2002	ZADB X	89855	89855	.07080	2047	2002	03
6	2002	ZAFW X	34732	34732	.06690	2017	2002	03
			397411	397411				
				7.91800			22010	
							22365	

0 = TOTAL FOR 6

CHAPTER 2

**REPAYMENT STUDY RESULTS
CURRENT STUDY
FY 2002**

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**Summary of Interest Expense
Generation
FY 2002 Current Repayment Study**

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BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	222,012	236,125	252,003	253,166	250,304	246,519	237,679	229,385	225,079	225,079
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BPA BORROWING

BPA PROGRAM	1,649	2,075	2,426	2,501	2,169	1,666	1,357	1,357	1,357	1,357
BPA CONSERVATION	38,869	40,109	40,144	34,435	34,435	34,435	34,435	34,435	34,435	28,907
FISH, WILDLIFE & ENV	8,936	10,848	12,944	14,106	12,846	12,846	12,846	12,846	11,456	11,456
BUREAU DIRECT FUND	12,250	15,370	21,325	24,506	24,506	23,226	22,379	22,379	20,879	20,879
IRRIGATION ASSISTANC										
PREMIUMS	4					1,027		243		127
0LESS										
0 AFUDC										
0 INTEREST INCOME	11,449	11,311	13,367	11,968	12,411	14,274	13,124	12,552	12,173	12,876
0TOTAL BPA BORROWING	50,259	57,091	63,472	63,580	61,545	58,926	57,893	58,708	55,954	49,850
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTALS	272,271	293,216	315,475	316,746	311,849	305,445	295,572	288,093	281,033	274,929

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
BUREAU OF RECLAMATION										
BOISE	246	246	244	242	242	242	242	268	295	295
COLUMBIA BASIN	1,055	1,055	1,055	2,778	4,501	4,501	4,501	5,746	13,170	19,328
COLUMBIA BASIN - 3RD	32,564	32,564	32,564	32,564	32,564	32,564	29,405	25,875	17,606	9,530
HUNGRY HORSE	582	582	582	633	684	684	684	684	684	561
MINIDOKA	3,705	3,700	3,691	3,686	3,686	3,686	3,686	3,916	4,147	4,147
YAKIMA-CHANDLER	63	63	63	63	63		8	15	15	15
YAKIMA-ROZA										
TOTAL BUREAU	38,215	38,210	38,199	39,966	41,740	41,677	38,526	36,504	35,917	33,876
CORPS OF ENGINEERS										
ALBENI FALLS	184	183	183	183	183	218	252	252	252	252
BONNEVILLE	6,178	11,205	16,266	16,425	16,550	16,541	18,602	19,062	20,963	20,106
BONNEVILLE - 2ND POW	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	1,673
CHIEF JOSEPH	14,919	14,918	14,918	17,105	19,291	19,291	19,291	19,402	13,146	8,004
COUGAR	686	686	686	686	6	10	10	10	10	10
COLUMBIA RIVER FISH	39,593	39,593	39,593	39,593	39,593	39,593	39,593	39,593	39,593	39,593
DETROIT-BIG CLIFF	3	3	3	3	890	1,777	1,777	1,777	1,777	1,777
DWORSHAK	10,770	10,770	10,762	11,116	11,455	1,366	1,367	1,367	1,456	1,514
GREEN PETER-FOSTER	5	5	67	183	233	233	234	240	246	248
HILLS CREEK	686	686	686	2	2	2	2	2	2	2
ICE HARBOR FISH BYPA										
ICE HARBOR	4,851	5,821	7,763	5,455	5,455	5,450	5,592	4,655	5,228	4,664
JOHN DAY	10,339	10,339	7,550	7,551	4,474	2,674	3,644	3,644	3,645	3,648
LIBBY	16,366	16,697	17,028	17,028	17,028	17,003	13,161	3,204	2,830	2,806
LITTLE GOOSE FISH BY										
LITTLE GOOSE	8,687	9,946	11,205	10,930	7,151	7,117	8,049	8,981	5,746	6,129
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	5	5	6	6	6	39	73	73	73	73
LOST CREEK	995	995	996	996	996	996	996	1,046	111	109
LOWER GRANITE	11,984	11,985	11,967	12,280	12,592	10,718	6,526	6,527	3,876	4,002
LOWER MONUMENTAL	7,052	7,053	5,511	3,131	4,315	5,502	5,502	5,572	5,645	3,099
MCNARY	165	132	135	135	135	3,448	6,761	6,761	6,737	6,736
MCNARY FISH BYPASS										
STRUBE										
THE DALLES	7,510	4,732	3,819	3,826	3,834	1,737	1,741	1,741	1,983	2,303
TOTAL CORPS	167,205	171,981	175,371	172,861	170,416	159,942	159,400	150,136	139,546	106,748
LOWER SNAKE F AND W	16,806	16,823	16,840	16,975	17,113	17,116	17,119	17,119	17,173	16,493

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	222,226	227,014	230,410	229,802	229,269	218,735	215,045	203,759	192,636	157,117
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BPA BORROWING

BPA PROGRAM	1,357	1,357	1,357	1,357	1,357	703	703	703	703	703
BPA CONSERVATION	23,225	23,225	21,215	21,215	15,558	12,183	5,808	5,808	2,928	2,928
FISH, WILDLIFE & ENV	11,456	9,807	9,807	9,807	6,147	6,147	4,192	2,324		
BUREAU DIRECT FUND	20,721	15,778	14,535	14,535	14,535	14,535	11,910	11,910	11,910	11,910
IRRIGATION ASSISTANC										
PREMIUMS	3,844	939								
0LESS										
0 AFUDC										
0 INTEREST INCOME	12,812	12,475	11,762	18,873	20,524	20,734	20,046	23,945	29,643	21,957
0TOTAL BPA BORROWING	47,791	38,631	35,152	28,041	17,073	12,834	2,567	-3,200	-14,102	-6,416
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTALS	270,017	265,645	265,562	257,843	246,342	231,569	217,612	200,559	178,534	150,701

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
BUREAU OF RECLAMATION										
BOISE	216	49	49	1	1			923		
COLUMBIA BASIN	19,132	16,700	5,680	5,335	459			1,514	5,196	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE	118	72	72	177	29				348	
MINIDOKA	4,147	455	555	159	37			23		
YAKIMA-CHANDLER	15	11	11	11	11		17			
YAKIMA-ROZA									2	
TOTAL BUREAU	23,628	17,287	6,367	5,683	537		17	2,460	5,546	
CORPS OF ENGINEERS										
ALBENI FALLS	103	69	69	69	69	269		4		
BONNEVILLE	20,029	18,149	17,561	9,704	7,554	822	1,901	73		120
BONNEVILLE - 2ND POW	27									
CHIEF JOSEPH	7,559	7,435	267	273	279			1,803	397	
COUGAR	10	8	8	8	3					
COLUMBIA RIVER FISH	39,096	36,514	36,514	23,887	1,102					
DETROIT-BIG CLIFF	1,774	1,735	1,735	1,735	1,775		1			725
DWORSHAK	1,428	888	405	695	195					1
GREEN PETER-FOSTER	248	246	15	15	3			45	29	
HILLS CREEK	2		11							
ICE HARBOR FISH BYPA										
ICE HARBOR	4,637	4,228	4,961	4,088	3,947	767	249	401		
JOHN DAY	3,059	3,066	3,066	1,257	136		1			
LIBBY	1,994	1,592	177	177	177	249	189			
LITTLE GOOSE FISH BY										
LITTLE GOOSE	6,059	5,905	4,221	4,001	2,082			2	86	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	68	68	68	68	68	3		1		
LOST CREEK	100	99	40	2	2			20		
LOWER GRANITE	4,487	4,969	3,901	3,427	3,358	83			56	
LOWER MONUMENTAL	3,325	3,325	2,731	2,042	1,961	2				1,954
MCNARY	6,733	6,689	6,689	6,689	6,632	3,745		869		
MCNARY FISH BYPASS										
STRUBE										
THE DALLEs	2,380	1,489	1,543	1,179	390					2,205
TOTAL CORPS	103,118	96,474	83,982	59,316	29,733	5,940	2,341	3,218	568	5,005
LOWER SNAKE F AND W	1,806	784	713	1,133	985	17			69	

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	128,552	114,545	91,062	66,132	31,255	5,957	2,358	5,678	6,183	5,005
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BPA BORROWING

BPA PROGRAM	703									
BPA CONSERVATION	2,480									
FISH, WILDLIFE & ENV										
BUREAU DIRECT FUND	11,910									
IRRIGATION ASSISTANC										
PREMIUMS	7,435									
0LESS										
0 AFUDC										
0 INTEREST INCOME	22,701	23,065	22,040	23,040	23,506	22,386	23,556	23,556	22,004	23,556
0TOTAL BPA BORROWING	-173	-23,065	-22,040	-23,040	-23,506	-22,386	-23,556	-23,556	-22,004	-23,556
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TOTALS	128,379	91,480	69,022	43,092	7,749	-16,429	-21,198	-17,878	-15,821	-18,551

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
BUREAU OF RECLAMATION										
BOISE			31							
COLUMBIA BASIN								1,546	278	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				215						
MINIDOKA			77					268		
YAKIMA-CHANDLER		30					20			
YAKIMA-ROZA				3					4	
TOTAL BUREAU		30	108	218			20	1,814	282	
CORPS OF ENGINEERS										
ALBENI FALLS	81					49				4
BONNEVILLE		2,018	1,377				1,901	124		818
BONNEVILLE - 2ND POW										
CHIEF JOSEPH			173					936	28	
COUGAR					81					5
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF					602				1	
DWORSHAK				202				1		
GREEN PETER-FOSTER								1		
HILLS CREEK										
ICE HARBOR FISH BYPA										
ICE HARBOR			2,097		355		6	450		767
JOHN DAY	239			1						
LIBBY	6		2			200	80			2
LITTLE GOOSE FISH BY										
LITTLE GOOSE		1,936			1	1			37	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	31					421				1
LOST CREEK								6		
LOWER GRANITE		2				1,680			21	1
LOWER MONUMENTAL			1	1						334
M McNARY	674		1			2,819				868
M McNARY FISH BYPASS										
STRUBE										
THE DALLES		2		726	120		1			1,432
TOTAL CORPS	1,031	3,958	3,651	930	1,159	5,170	1,988	1,518	87	4,232

LOWER SNAKE F AND W		19	17	588					1	20
BONNEVILLE POWER ADM										
TOTAL APPROPRIATIONS	1,031	4,007	3,776	1,736	1,159	5,170	2,008	3,332	370	4,252
BPA BORROWING										
BPA PROGRAM										
BPA CONSERVATION										
FISH, WILDLIFE & ENV										
BUREAU DIRECT FUND										
IRRIGATION ASSISTANC										
PREMIUMS										
0 LESS										
0 AFUDC										
0 INTEREST INCOME	23,591	22,039	23,591	23,591	22,579	23,591	23,591	22,575	23,591	23,591
0 TOTAL BPA BORROWING	-23,591	-22,039	-23,591	-23,591	-22,579	-23,591	-23,591	-22,575	-23,591	-23,591
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TOTALS	-22,560	-18,032	-19,815	-21,855	-21,420	-18,421	-21,583	-19,243	-23,221	-19,339

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
BUREAU OF RECLAMATION										
BOISE								31		
COLUMBIA BASIN								5,976	1,723	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				241						
MINIDOKA			61					133		
YAKIMA-CHANDLER							29			
YAKIMA-ROZA									7	
TOTAL BUREAU			61	241			29	6,140	1,730	
CORPS OF ENGINEERS										
ALBENI FALLS						2				
BONNEVILLE		2,680	34			120	5,105			4
BONNEVILLE - 2ND POW										
CHIEF JOSEPH								44	2,187	
COUGAR					50					
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF		18			890					
DWORSHAK				395		3				318
GREEN PETER-FOSTER			4	2				151	552	
HILLS CREEK			55							
ICE HARBOR FISH BYPA										
ICE HARBOR			1,419				1,116	401		
JOHN DAY	18		1			86		1		
LIBBY						6	333			
LITTLE GOOSE FISH BY										
LITTLE GOOSE		395		70			962		339	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER						264				
LOST CREEK								1		
LOWER GRANITE						293		2	313	
LOWER MONUMENTAL		70			923		1			1,556
MCNARY				2		2,408	1			
MCNARY FISH BYPASS										
STRUBE										
THE DALLES				492	1	52		2	60	40
TOTAL CORPS	18	3,163	1,513	961	1,864	3,234	7,518	602	3,769	1,600

LOWER SNAKE F AND W				311			17	3	1	
BONNEVILLE POWER ADM										
TOTAL APPROPRIATIONS	18	3,163	1,574	1,513	1,864	3,234	7,564	6,745	5,500	1,600
BPA BORROWING										
BPA PROGRAM										
BPA CONSERVATION										
FISH, WILDLIFE & ENV										
BUREAU DIRECT FUND										
IRRIGATION ASSISTANC										
PREMIUMS										
0 LESS										
0 AFUDC										
0 INTEREST INCOME	22,418	23,591	23,591	22,449	23,591	23,591	22,214	23,591	23,591	22,785
0 TOTAL BPA BORROWING	-22,418	-23,591	-23,591	-22,449	-23,591	-23,591	-22,214	-23,591	-23,591	-22,785
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TOTALS	-22,400	-20,428	-22,017	-20,936	-21,727	-20,357	-14,650	-16,846	-18,091	-21,185

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2050	2051	2052
BUREAU OF RECLAMATION			
BOISE			672
COLUMBIA BASIN			1,271
COLUMBIA BASIN - 3RD			
HUNGRY HORSE			
MINIDOKA			196
YAKIMA-CHANDLER			
YAKIMA-ROZA			
TOTAL BUREAU			2,139
CORPS OF ENGINEERS			
ALBENI FALLS		4	
BONNEVILLE		1,904	2,203
BONNEVILLE - 2ND POW			
CHIEF JOSEPH			
COUGAR			
COLUMBIA RIVER FISH			
DETROIT-BIG CLIFF	1		
DWORSHAK			
GREEN PETER-FOSTER			
HILLS CREEK			29
ICE HARBOR FISH BYPA			
ICE HARBOR	209	1	819
JOHN DAY	1,512		
LIBBY		140	
LITTLE GOOSE FISH BY			
LITTLE GOOSE		1,259	
LOWER GRANITE FISH B			
LOWER MONUMENTAL FIS			
LOOKOUT POINT-DEXTER		1	
LOST CREEK			2
LOWER GRANITE	537		1
LOWER MONUMENTAL			
MENARY		869	
MENARY FISH BYPASS			
STRUBE			
THE DALLES	1		
TOTAL CORPS	2,260	4,178	3,054
LOWER SNAKE F AND W			

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	2,260	4,178	5,193
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BPA BORROWING

BPA PROGRAM
BPA CONSERVATION
FISH, WILDLIFE & ENV
BUREAU DIRECT FUND
IRRIGATION ASSISTANC
PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	23,591	23,591	22,506
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0TOTAL BPA BORROWING	-23,591	-23,591	-22,506
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TOTALS	-21,331	-19,413	-17,313

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

	TOTALS
BUREAU OF RECLAMATION	
BOISE	7,007
COLUMBIA BASIN	134,905
COLUMBIA BASIN - 3RD	603,440
HUNGRY HORSE	18,270
MINIDOKA	81,486
YAKIMA-CHANDLER	1,153
YAKIMA-ROZA	334
TOTAL BUREAU	846,595
CORPS OF ENGINEERS	
ALBENI FALLS	12,067
BONNEVILLE	314,134
BONNEVILLE - 2ND POW	500,013
CHIEF JOSEPH	378,623
COUGAR	9,833
COLUMBIA RIVER FISH	869,271
DETROIT-BIG CLIFF	28,742
DWORSHAK	174,174
GREEN PETER-FOSTER	5,623
HILLS CREEK	9,029
ICE HARBOR FISH BYPA	
ICE HARBOR	134,500
JOHN DAY	188,478
LIBBY	292,135
LITTLE GOOSE FISH BY	
LITTLE GOOSE	198,167
LOWER GRANITE FISH B	
LOWER MONUMENTAL FIS	
LOOKOUT POINT-DEXTER	13,975
LOST CREEK	18,458
LOWER GRANITE	235,457
LOWER MONUMENTAL	144,984
MCNARY	152,325
MCNARY FISH BYPASS	
STRUBE	
THE DALLES	161,443
TOTAL CORPS	3,841,431
LOWER SNAKE F AND W	343,312
TOTAL APPROPRIATIONS	5,031,338

BONNEVILLE POWER ADM

BPA BORROWING

BPA PROGRAM	28,917
BPA CONSERVATION	491,212
FISH, WILDLIFE & ENV	180,817
BUREAU DIRECT FUND	361,888
IRRIGATION ASSISTANC	
PREMIUMS	13,619
0LESS	
0 AFUDC	
0 INTEREST INCOME	1,081,116
0TOTAL BPA BORROWING	-4,663

TOTALS	5,026,675

**Application of Amortization
Generation
FY 2002 Current Repayment Study**

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2001	COLUMBIA BASIN	1956	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1956	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1957	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1957	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1958	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1958	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1959	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1959	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1960	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1960	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1961	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1961	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1962	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1962	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1963	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1963	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1964	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1964	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1965	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1965	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1966	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1966	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1967	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1967	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1968	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1968	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1969	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1969	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1970	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1970	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1971	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1971	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1972	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1972	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1973	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1973	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1974	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1974	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1975	2001	258	258	.06710	R	258

APPLICATION OF AMORTIZATION GENERATION FY 2002 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR -----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2002	BPA CONSERVATION	1989	2002	66,000	66,000	.08650		66,000
	LOWER MONUMENTAL	1969	2019	25,083	2,402	.07270		2,402
	JOHN DAY	1969	2019	96,104	96,104	.07270		38,999
	TOTAL							----- 107,401
2003	BPA PROGRAM	1996	2003	5,622	5,622	.05900		5,622
	FISH, WILDLIFE & ENVIRONMENTAL	1999	2003	20,000	20,000	.06300		20,000
	HUNGRY HORSE	1955	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	1	1	.06840	R	1
	HUNGRY HORSE	1957	2003	18	18	.06840	R	18
	HUNGRY HORSE	1957	2003	1	1	.06840	R	1
	HUNGRY HORSE	1958	2003	18	18	.06840	R	18
	HUNGRY HORSE	1958	2003	1	1	.06840	R	1
	HUNGRY HORSE	1959	2003	18	18	.06840	R	18
	HUNGRY HORSE	1959	2003	1	1	.06840	R	1
	HUNGRY HORSE	1960	2003	18	18	.06840	R	18
	HUNGRY HORSE	1960	2003	1	1	.06840	R	1
	HUNGRY HORSE	1961	2003	18	18	.06840	R	18
	HUNGRY HORSE	1961	2003	1	1	.06840	R	1
	HUNGRY HORSE	1962	2003	18	18	.06840	R	18
	HUNGRY HORSE	1962	2003	1	1	.06840	R	1
	HUNGRY HORSE	1963	2003	18	18	.06840	R	18
	HUNGRY HORSE	1963	2003	1	1	.06840	R	1
	HUNGRY HORSE	1953	2003	490	490	.06840		490
	HUNGRY HORSE	1953	2003	16,359	16,359	.06840		16,359
	DETROIT-BIG CLIFF	1953	2003	3,078	3,078	.06840		3,078
	HUNGRY HORSE	1964	2003	17	17	.06840	R	17
	HUNGRY HORSE	1964	2003	1	1	.06840	R	1
	HUNGRY HORSE	1965	2003	17	17	.06840	R	17
	HUNGRY HORSE	1965	2003	1	1	.06840	R	1
	HUNGRY HORSE	1966	2003	17	17	.06840	R	17
	HUNGRY HORSE	1966	2003	1	1	.06840	R	1
	HUNGRY HORSE	1967	2003	18	18	.06840	R	18
	HUNGRY HORSE	1967	2003	1	1	.06840	R	1
	HUNGRY HORSE	1968	2003	18	18	.06840	R	18
	HUNGRY HORSE	1968	2003	1	1	.06840	R	1
	HUNGRY HORSE	1969	2003	18	18	.06840	R	18

APPLICATION OF AMORTIZATION

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
HUNGRY HORSE	1969	2003	1	1	.06840	R	1
HUNGRY HORSE	1955	2003	1	1	.06840	R	1
HUNGRY HORSE	1970	2003	18	18	.06840	R	18
HUNGRY HORSE	1970	2003	1	1	.06840	R	1
HUNGRY HORSE	1971	2003	18	18	.06840	R	18
HUNGRY HORSE	1971	2003	1	1	.06840	R	1
HUNGRY HORSE	1972	2003	18	18	.06840	R	18
HUNGRY HORSE	1972	2003	1	1	.06840	R	1
HUNGRY HORSE	1973	2003	18	18	.06840	R	18
HUNGRY HORSE	1973	2003	1	1	.06840	R	1
HUNGRY HORSE	1974	2003	17	17	.06840	R	17
HUNGRY HORSE	1974	2003	1	1	.06840	R	1
HUNGRY HORSE	1975	2003	17	17	.06840	R	17
HUNGRY HORSE	1975	2003	1	1	.06840	R	1
HUNGRY HORSE	1976	2003	10	10	.06840	R	10
HUNGRY HORSE	1976	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	17	17	.06840	R	17
HUNGRY HORSE	1977	2003	18	18	.06840	R	18
HUNGRY HORSE	1977	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	1	1	.06840	R	1
HUNGRY HORSE	1978	2003	18	18	.06840	R	18
HUNGRY HORSE	1978	2003	1	1	.06840	R	1
HUNGRY HORSE	1979	2003	18	18	.06840	R	18
HUNGRY HORSE	1979	2003	1	1	.06840	R	1
HUNGRY HORSE	1980	2003	18	18	.06840	R	18
HUNGRY HORSE	1980	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1982	2003	1	1	.06840	R	1
HUNGRY HORSE	1983	2003	12	12	.06840	R	12
HUNGRY HORSE	1983	2003	1	1	.06840	R	1
JOHN DAY	1969	2019	96,104	57,105	.07270		18,964
DETROIT-BIG CLIFF	1955	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1987	2004	3	3	.06880		3
DETROIT-BIG CLIFF	1985	2004	6	6	.06880		6
DETROIT-BIG CLIFF	1983	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1982	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1981	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1980	2004	19	19	.06880	R	19

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APPLICATION OF AMORTIZATION

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
MCNARY	1954	2004	35,757	35,757	.06880		1,254
TOTAL							66,381
2004 BPA PROGRAM	1997	2004	7,400	7,400	.06800		7,400
BUREAU DIRECT FUND	1999	2004	20,000	20,000	.06400		20,000
DETROIT-BIG CLIFF	1956	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1957	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1958	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1959	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1960	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1961	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1962	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1963	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1964	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1965	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1966	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1967	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1968	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1969	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1970	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1971	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1972	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1973	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1974	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1975	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1976	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1954	2004	20,162	20,162	.06880		20,162
DETROIT-BIG CLIFF	1977	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1978	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1979	2004	18	18	.06880	R	18
MCNARY	1954	2004	35,757	34,503	.06880		34,503
JOHN DAY	1969	2019	96,104	38,141	.07270		1
TOTAL							82,510

APPLICATION OF AMORTIZATION

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2005	LOOKOUT POINT-DEXTER	1955	2005	28,417	28,417	.06910		28,417
	MCNARY	1955	2005	53,493	53,493	.06910		53,493
	ALBENI FALLS	1956	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1956	2005	52	52	.06910	R	52
	ALBENI FALLS	1957	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1957	2005	51	51	.06910	R	51
	ALBENI FALLS	1958	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1958	2005	51	51	.06910	R	51
	ALBENI FALLS	1959	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1959	2005	51	51	.06910	R	51
	ALBENI FALLS	1960	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1960	2005	51	51	.06910	R	51
	ALBENI FALLS	1961	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1961	2005	52	52	.06910	R	52
	ALBENI FALLS	1962	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1962	2005	51	51	.06910	R	51
	ALBENI FALLS	1963	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1963	2005	51	51	.06910	R	51
	ALBENI FALLS	1964	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1964	2005	51	51	.06910	R	51
	ALBENI FALLS	1965	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1965	2005	51	51	.06910	R	51
	ALBENI FALLS	1966	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1966	2005	51	51	.06910	R	51
	ALBENI FALLS	1967	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1967	2005	52	52	.06910	R	52
	ALBENI FALLS	1968	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1968	2005	51	51	.06910	R	51
	ALBENI FALLS	1969	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1969	2005	51	51	.06910	R	51
	ALBENI FALLS	1970	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1970	2005	51	51	.06910	R	51
	ALBENI FALLS	1971	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1971	2005	51	51	.06910	R	51
	ALBENI FALLS	1972	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1972	2005	51	51	.06910	R	51
	ALBENI FALLS	1973	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1973	2005	52	52	.06910	R	52
	ALBENI FALLS	1974	2005	11	11	.06910	R	11

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LOOKOUT POINT-DEXTER	1974	2005	51	51	.06910	R	51
ALBENI FALLS	1975	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1975	2005	51	51	.06910	R	51
ALBENI FALLS	1976	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1976	2005	51	51	.06910	R	51
ALBENI FALLS	1977	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1977	2005	51	51	.06910	R	51
ALBENI FALLS	1978	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1978	2005	51	51	.06910	R	51
ALBENI FALLS	1979	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1979	2005	52	52	.06910	R	52
ALBENI FALLS	1980	2005	11	11	.06910	R	11
ALBENI FALLS	1955	2005	16,854	16,854	.06910		16,854
LOOKOUT POINT-DEXTER	1980	2005	51	51	.06910	R	51
ALBENI FALLS	1981	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1981	2005	51	51	.06910	R	51
ALBENI FALLS	1982	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1982	2005	51	51	.06910	R	51
ALBENI FALLS	1983	2005	11	11	.06910	R	11
CHIEF JOSEPH	1955	2005	2,262	2,262	.06910		2,262
LOOKOUT POINT-DEXTER	1983	2005	51	51	.06910	R	51
ALBENI FALLS	1985	2005	7	7	.06910		7
LOOKOUT POINT-DEXTER	1985	2005	52	52	.06910		52
ALBENI FALLS	1986	2005	293	293	.06910		293
LOOKOUT POINT-DEXTER	1986	2005	42	42	.06910		42
ALBENI FALLS	1987	2005	12	12	.06910		12
LOOKOUT POINT-DEXTER	1987	2005	9	9	.06910		9
BPA PROGRAM	2000	2045	4,100	4,100	.07540		4,100
BUREAU DIRECT FUND	2000	2045	95,369	95,369	.07540		11,225
YAKIMA-ROZA	1987	2008	2	2	.07020		2
MINIDOKA	1987	2008	16	16	.07020		16
YAKIMA-ROZA	1986	2008	6	6	.07020		6
MINIDOKA	1986	2008	21	21	.07020		21
YAKIMA-ROZA	1985	2008	69	69	.07020		69
MINIDOKA	1985	2008	21	21	.07020		21
CHIEF JOSEPH	1985	2008	46	46	.07020		46
MINIDOKA	1983	2008	20	20	.07020	R	20
MINIDOKA	1983	2008	65	65	.07020	R	65
CHIEF JOSEPH	1983	2008	224	224	.07020	R	224

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MINIDOKA	1982	2008	19	19	.07020	R	19
MINIDOKA	1982	2008	75	75	.07020	R	75
CHIEF JOSEPH	1982	2008	223	223	.07020	R	223
MINIDOKA	1981	2008	20	20	.07020	R	20
MINIDOKA	1981	2008	75	75	.07020	R	75
CHIEF JOSEPH	1981	2008	223	223	.07020	R	223
MINIDOKA	1980	2008	20	20	.07020	R	20
MINIDOKA	1980	2008	75	75	.07020	R	75
CHIEF JOSEPH	1980	2008	223	223	.07020	R	223
MINIDOKA	1979	2008	19	19	.07020	R	19
MINIDOKA	1979	2008	75	75	.07020	R	75
CHIEF JOSEPH	1979	2008	223	223	.07020	R	223
MINIDOKA	1978	2008	20	20	.07020	R	20
MINIDOKA	1978	2008	75	75	.07020	R	75
CHIEF JOSEPH	1978	2008	224	224	.07020	R	224
MINIDOKA	1977	2008	56	56	.07020	R	56
CHIEF JOSEPH	1977	2008	223	223	.07020	R	223
CHIEF JOSEPH	1976	2008	223	223	.07020	R	223
CHIEF JOSEPH	1975	2008	223	223	.07020	R	223
CHIEF JOSEPH	1974	2008	223	223	.07020	R	223
CHIEF JOSEPH	1973	2008	224	224	.07020	R	224
CHIEF JOSEPH	1972	2008	223	223	.07020	R	223
CHIEF JOSEPH	1971	2008	223	223	.07020	R	223
CHIEF JOSEPH	1970	2008	223	223	.07020	R	223
CHIEF JOSEPH	1969	2008	223	223	.07020	R	223
CHIEF JOSEPH	1968	2008	224	224	.07020	R	224
CHIEF JOSEPH	1967	2008	223	223	.07020	R	223
CHIEF JOSEPH	1966	2008	223	223	.07020	R	223
CHIEF JOSEPH	1965	2008	223	223	.07020	R	223
THE DALLES	1996	2008	196	196	.07020		196
CHIEF JOSEPH	1964	2008	223	223	.07020	R	223
CHIEF JOSEPH	1963	2008	224	224	.07020	R	224
CHIEF JOSEPH	1962	2008	223	223	.07020	R	223
CHIEF JOSEPH	1961	2008	223	223	.07020	R	223
CHIEF JOSEPH	1960	2008	223	223	.07020	R	223
CHIEF JOSEPH	1959	2008	223	223	.07020	R	223
YAKIMA-ROZA	1958	2008	161	161	.07020		161
YAKIMA-ROZA	1958	2008	533	533	.07020		533
THE DALLES	1958	2008	33,988	33,988	.07020		16,772

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT

TOTAL							142,535
2006	CHIEF JOSEPH	1956	2006	13,643	13,643	.06950	13,643
	MCNARY	1956	2006	38,748	38,748	.06950	38,748
	MCNARY	1996	2006	778	778	.06950	778
	BOISE	1996	2006	7	7	.06950	7
	DETROIT-BIG CLIFF	1996	2006	24	24	.06950	24
	THE DALLES	1958	2008	33,988	17,216	.07020	17,216
	CHIEF JOSEPH	1958	2008	31,901	31,901	.07020	31,901
	MCNARY	1985	2007	557	557	.06980	557
	MCNARY	1983	2007	468	468	.06980	R 468
	MCNARY	1982	2007	467	467	.06980	R 467
	MCNARY	1981	2007	468	468	.06980	R 468
	MCNARY	1980	2007	468	468	.06980	R 468
	MCNARY	1979	2007	468	468	.06980	R 468
	MCNARY	1987	2007	24	24	.06980	24
	MCNARY	1978	2007	468	468	.06980	R 468
	MCNARY	1977	2007	467	467	.06980	R 467
	MCNARY	1976	2007	468	468	.06980	R 468
	MCNARY	1975	2007	468	468	.06980	R 468
	MCNARY	1974	2007	468	468	.06980	R 468
	MCNARY	1973	2007	467	467	.06980	R 467
	MCNARY	1972	2007	468	468	.06980	R 468
	MCNARY	1971	2007	468	468	.06980	R 468
	MCNARY	1970	2007	468	468	.06980	R 468
	MCNARY	1969	2007	468	468	.06980	R 468
	MCNARY	1968	2007	468	468	.06980	R 468
	MCNARY	1967	2007	467	467	.06980	R 467
	MCNARY	1966	2007	468	468	.06980	R 468
	MCNARY	1965	2007	468	468	.06980	R 468
	MCNARY	1964	2007	468	468	.06980	R 468
	MCNARY	1963	2007	468	468	.06980	R 468
	MCNARY	1962	2007	467	467	.06980	R 467
	MCNARY	1961	2007	468	468	.06980	R 468
	MCNARY	1960	2007	468	468	.06980	R 468
	MCNARY	1959	2007	468	468	.06980	R 468
	MCNARY	1986	2007	454	454	.06980	454
	MCNARY	1958	2007	468	468	.06980	R 468
	MCNARY	1957	2007	24,985	24,985	.06980	3,129

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YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	TOTAL							118,644
2007	CHIEF JOSEPH	1957	2007	39,586	39,586	.06980		39,586
	MCNARY	1957	2007	24,985	21,856	.06980		21,856
	BOISE	1997	2007	9	9	.06950		9
	HUNGRY HORSE	1997	2007	154	154	.06950		154
	MINIDOKA	1997	2007	66	66	.06950		66
	BUREAU DIRECT FUND	2000	2045	95,369	84,144	.07540		1
	FISH, WILDLIFE & ENVIRONMENTAL	1993	2008	20,000	20,000	.06950		20,000
	BUREAU DIRECT FUND	1998	2008	25,000	25,000	.06000		25,000
	TOTAL							106,672
2008	BPA CONSERVATION	1998	2008	104,300	104,300	.05300		104,300
	TOTAL							104,300
2009	BPA CONSERVATION	1998	2009	37,700	37,700	.06000		37,700
	BPA CONSERVATION	1989	2009	40,000	40,000	.08550		40,000
	THE DALLES	1959	2009	40,415	40,415	.07060		40,415
	BUREAU DIRECT FUND	2000	2045	95,369	84,143	.07540		2,102
	TOTAL							120,217
2010	MINIDOKA	2000	2010	81	81	.06520		81
	THE DALLES	1960	2010	39,179	39,179	.07090		39,179
	FISH, WILDLIFE & ENVIRONMENTAL	1995	2010	22,900	22,900	.07200		22,900
	CHIEF JOSEPH	1995	2010	15	15	.07090		15
	MCNARY	1995	2010	509	509	.07090		509
	BONNEVILLE	1995	2010	25	25	.07090	R	25
	ALBENI FALLS	1995	2010	17	17	.07090		17
	BUREAU DIRECT FUND	2000	2045	95,369	82,041	.07540		65,556
	TOTAL							128,282
2011	BPA CONSERVATION	1996	2011	30,000	30,000	.06700		30,000
	MINIDOKA	2001	2011	80	80	.06190		80
	THE DALLES	1986	2011	95	95	.07130		95
	BOISE	2001	2011	4	4	.06190		4
	THE DALLES	1961	2011	9,492	9,492	.07130		9,492
	BOISE	2001	2011	27	27	.06190		27
	THE DALLES	1962	2011	56	56	.07130	R	56
	THE DALLES	1963	2011	57	57	.07130	R	57

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
THE DALLES	1996	2011	457	457	.07130		457
THE DALLES	1964	2011	57	57	.07130	R	57
MINIDOKA	1996	2011	54	54	.07130		54
THE DALLES	1965	2011	56	56	.07130	R	56
THE DALLES	1966	2011	57	57	.07130	R	57
MCNARY	1996	2011	3	3	.07130		3
THE DALLES	1967	2011	57	57	.07130	R	57
THE DALLES	1968	2011	56	56	.07130	R	56
THE DALLES	1969	2011	57	57	.07130	R	57
THE DALLES	1970	2011	57	57	.07130	R	57
LOWER GRANITE	1996	2011	255	255	.07130		255
THE DALLES	1971	2011	56	56	.07130	R	56
THE DALLES	1972	2011	57	57	.07130	R	57
THE DALLES	1973	2011	57	57	.07130	R	57
THE DALLES	1974	2011	56	56	.07130	R	56
THE DALLES	1985	2011	95	95	.07130		95
THE DALLES	1975	2011	57	57	.07130	R	57
THE DALLES	1976	2011	57	57	.07130	R	57
JOHN DAY	1996	2011	237	237	.07130		237
THE DALLES	1977	2011	56	56	.07130	R	56
THE DALLES	1978	2011	57	57	.07130	R	57
THE DALLES	1987	2011	1,417	1,417	.07130		1,417
THE DALLES	1979	2011	57	57	.07130	R	57
DWORSHAK	1996	2011	107	107	.07130		107
THE DALLES	1980	2011	56	56	.07130	R	56
THE DALLES	1981	2011	57	57	.07130	R	57
THE DALLES	1983	2011	56	56	.07130	R	56
THE DALLES	1982	2011	57	57	.07130	R	57
BUREAU DIRECT FUND	2000	2045	95,369	16,485	.07540		16,485
JOHN DAY	1969	2019	96,104	38,140	.07270		38,140
LOWER MONUMENTAL	1982	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1981	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1980	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1979	2020	214	214	.07250	R	214
BONNEVILLE	1995	2020	20	20	.07250		20
LOWER MONUMENTAL	1987	2020	3	3	.07250		3
LOWER MONUMENTAL	1978	2020	214	214	.07250	R	214
BONNEVILLE	1995	2020	22	22	.07250	R	22
LOWER MONUMENTAL	1977	2020	214	214	.07250	R	214

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
LOWER MONUMENTAL	1983	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1976	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1975	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1974	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1973	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1972	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1985	2020	8	8	.07250		8
LOWER MONUMENTAL	1971	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1970	2020	51,218	51,218	.07250		18,390
TOTAL							119,419
2012							
MINIDOKA	2002	2012	80	80	.05940		80
BOISE	2002	2012	27	27	.05940		27
ICE HARBOR	1986	2012	137	137	.07160		137
HILLS CREEK	1985	2012	6	6	.07160		6
HILLS CREEK	1962	2012	9,264	9,264	.07160		9,264
ICE HARBOR	1962	2012	44,308	44,308	.07160		44,308
ICE HARBOR	1962	2012	493	493	.07160		493
ICE HARBOR	1985	2012	41	41	.07160		41
HILLS CREEK	1963	2012	12	12	.07160	R	12
ICE HARBOR	1963	2012	46	46	.07160	R	46
ICE HARBOR	1963	2012	1	1	.07160	R	1
HILLS CREEK	1964	2012	13	13	.07160	R	13
ICE HARBOR	1964	2012	46	46	.07160	R	46
ICE HARBOR	1964	2012	1	1	.07160	R	1
HILLS CREEK	1965	2012	13	13	.07160	R	13
ICE HARBOR	1965	2012	46	46	.07160	R	46
ICE HARBOR	1965	2012	1	1	.07160	R	1
HILLS CREEK	1966	2012	13	13	.07160	R	13
ICE HARBOR	1966	2012	46	46	.07160	R	46
ICE HARBOR	1966	2012	1	1	.07160	R	1
HILLS CREEK	1967	2012	13	13	.07160	R	13
ICE HARBOR	1967	2012	46	46	.07160	R	46
ICE HARBOR	1967	2012	1	1	.07160	R	1
HILLS CREEK	1968	2012	13	13	.07160	R	13
ICE HARBOR	1968	2012	46	46	.07160	R	46
ICE HARBOR	1968	2012	1	1	.07160	R	1
HILLS CREEK	1969	2012	13	13	.07160	R	13
ICE HARBOR	1969	2012	46	46	.07160	R	46

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ICE HARBOR	1969	2012	1	1	.07160	R	1
HILLS CREEK	1970	2012	13	13	.07160	R	13
ICE HARBOR	1970	2012	46	46	.07160	R	46
ICE HARBOR	1970	2012	1	1	.07160	R	1
ICE HARBOR	1981	2012	1	1	.07160	R	1
ICE HARBOR	1981	2012	46	46	.07160	R	46
HILLS CREEK	1971	2012	13	13	.07160	R	13
ICE HARBOR	1971	2012	46	46	.07160	R	46
HILLS CREEK	1981	2012	13	13	.07160	R	13
ICE HARBOR	1971	2012	1	1	.07160	R	1
HILLS CREEK	1982	2012	13	13	.07160	R	13
HILLS CREEK	1972	2012	13	13	.07160	R	13
ICE HARBOR	1972	2012	46	46	.07160	R	46
ICE HARBOR	1972	2012	1	1	.07160	R	1
ICE HARBOR	1987	2012	3	3	.07160		3
HILLS CREEK	1973	2012	13	13	.07160	R	13
ICE HARBOR	1973	2012	46	46	.07160	R	46
ICE HARBOR	1973	2012	1	1	.07160	R	1
ICE HARBOR	1982	2012	46	46	.07160	R	46
HILLS CREEK	1974	2012	13	13	.07160	R	13
ICE HARBOR	1974	2012	46	46	.07160	R	46
ICE HARBOR	1974	2012	1	1	.07160	R	1
ICE HARBOR	1982	2012	1	1	.07160	R	1
ICE HARBOR	1983	2012	1	1	.07160	R	1
HILLS CREEK	1975	2012	13	13	.07160	R	13
ICE HARBOR	1975	2012	46	46	.07160	R	46
ICE HARBOR	1975	2012	1	1	.07160	R	1
ICE HARBOR	1983	2012	46	46	.07160	R	46
HILLS CREEK	1976	2012	13	13	.07160	R	13
ICE HARBOR	1980	2012	1	1	.07160	R	1
ICE HARBOR	1980	2012	46	46	.07160	R	46
ICE HARBOR	1976	2012	46	46	.07160	R	46
ICE HARBOR	1976	2012	1	1	.07160	R	1
HILLS CREEK	1980	2012	13	13	.07160	R	13
HILLS CREEK	1983	2012	13	13	.07160	R	13
HILLS CREEK	1977	2012	13	13	.07160	R	13
ICE HARBOR	1977	2012	46	46	.07160	R	46
ICE HARBOR	1977	2012	1	1	.07160	R	1
HILLS CREEK	1978	2012	13	13	.07160	R	13

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ICE HARBOR	1978	2012	46	46	.07160	R	46
ICE HARBOR	1978	2012	1	1	.07160	R	1
HILLS CREEK	1979	2012	13	13	.07160	R	13
ICE HARBOR	1979	2012	46	46	.07160	R	46
ICE HARBOR	1979	2012	1	1	.07160	R	1
LOWER MONUMENTAL	1970	2020	51,218	32,828	.07250		32,828
LITTLE GOOSE	1970	2020	21,301	21,301	.07250		8,046
TOTAL							96,492
2013 BPA CONSERVATION	1998	2013	52,800	52,800	.05600		52,800
FISH, WILDLIFE & ENVIRONMENTAL	1998	2013	60,000	60,000	.06100		60,000
BPA CONSERVATION	1993	2013	40,000	40,000	.06750		40,000
LITTLE GOOSE	1970	2020	21,301	13,255	.07250		13,255
JOHN DAY	1970	2020	23,656	23,656	.07250		23,656
GREEN PETER-FOSTER	1995	2020	11	11	.07250		11
GREEN PETER-FOSTER	1995	2020	24	24	.07250		24
JOHN DAY	1995	2020	79	79	.07250		79
LOWER MONUMENTAL	1986	2020	132	132	.07250		132
COUGAR	1979	2014	20	20	.07230	R	20
COUGAR	1978	2014	20	20	.07230	R	20
COUGAR	1980	2014	20	20	.07230	R	20
COUGAR	1977	2014	20	20	.07230	R	20
COUGAR	1983	2014	20	20	.07230	R	20
COUGAR	1976	2014	20	20	.07230	R	20
COUGAR	1975	2014	20	20	.07230	R	20
COUGAR	1974	2014	19	19	.07230	R	19
COUGAR	1973	2014	20	20	.07230	R	20
COUGAR	1981	2014	20	20	.07230	R	20
COUGAR	1972	2014	20	20	.07230	R	20
COUGAR	1971	2014	20	20	.07230	R	20
COUGAR	1970	2014	20	20	.07230	R	20
COUGAR	1969	2014	20	20	.07230	R	20
COUGAR	1987	2014	45	45	.07230		45
COUGAR	1968	2014	20	20	.07230	R	20
COUGAR	1967	2014	20	20	.07230	R	20
COUGAR	1986	2014	104	104	.07230		104
COUGAR	1966	2014	20	20	.07230	R	20
COUGAR	1982	2014	20	20	.07230	R	20
COUGAR	1965	2014	20	20	.07230	R	20

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COUGAR	1964	2014	9,042	9,042	.07230		9,042
COUGAR	1985	2014	1	1	.07230		1
LITTLE GOOSE	1978	2021	28	28	.07230	R	28
LITTLE GOOSE	1977	2021	29	29	.07230	R	29
LITTLE GOOSE	1982	2021	28	28	.07230	R	28
LITTLE GOOSE	1976	2021	28	28	.07230	R	28
DWORSHAK	1996	2021	184	184	.07230		184
LITTLE GOOSE	1987	2021	6	6	.07230		6
LITTLE GOOSE	1975	2021	29	29	.07230	R	29
LITTLE GOOSE	1980	2021	28	28	.07230	R	28
LITTLE GOOSE	1974	2021	28	28	.07230	R	28
LITTLE GOOSE	1973	2021	29	29	.07230	R	29
LITTLE GOOSE	1983	2021	29	29	.07230	R	29
LITTLE GOOSE	1972	2021	28	28	.07230	R	28
LITTLE GOOSE	1971	2021	42,962	42,962	.07230		42,962
JOHN DAY	1971	2021	34,974	34,974	.07230		18,751
TOTAL							261,715
2014 BPA PROGRAM	1999	2014	11,080	11,080	.05900		11,080
BPA CONSERVATION	1994	2014	50,000	50,000	.06750		50,000
JOHN DAY	1971	2021	34,974	16,223	.07230		16,223
DWORSHAK	1996	2021	26	26	.07230		26
LITTLE GOOSE	1981	2021	29	29	.07230	R	29
LOWER MONUMENTAL	1996	2021	37	37	.07230		37
LOWER MONUMENTAL	1996	2021	51	51	.07230		51
LITTLE GOOSE	1985	2021	174	174	.07230		174
LITTLE GOOSE	1979	2021	29	29	.07230	R	29
LITTLE GOOSE	1986	2021	239	239	.07230		239
JOHN DAY	1997	2022	133	133	.07230		133
ICE HARBOR	1997	2022	66	66	.07230		66
LIBBY	1997	2022	432	432	.07230		432
BONNEVILLE	1997	2022	122	122	.07230		122
JOHN DAY	1992	2022	19	19	.07210		19
JOHN DAY	1987	2022	706	706	.07210		706
JOHN DAY	1972	2022	11,502	11,502	.07210		11,502
JOHN DAY	1986	2022	3,227	3,227	.07210		3,227
JOHN DAY	1990	2022	37	37	.07210		37
JOHN DAY	1985	2022	6,490	6,490	.07210		6,490
YAKIMA-CHANDLER	1986	2022	455	455	.07210		455

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YAKIMA-CHANDLER	1961	2022	1	1	.07210	R	1
YAKIMA-CHANDLER	1960	2022	1	1	.07210	R	1
JOHN DAY	1989	2022	30	30	.07210		30
YAKIMA-CHANDLER	1959	2022	1	1	.07210	R	1
YAKIMA-CHANDLER	1956	2022	216	216	.07210		216
YAKIMA-CHANDLER	1956	2022	193	193	.07210		193
DWORSHAK	1978	2023	3	3	.07190	R	3
DWORSHAK	1978	2023	518	518	.07190	R	518
DWORSHAK	1980	2023	518	518	.07190	R	518
DWORSHAK	1980	2023	3	3	.07190	R	3
DWORSHAK	1977	2023	3	3	.07190	R	3
DWORSHAK	1977	2023	518	518	.07190	R	518
DWORSHAK	1979	2023	3	3	.07190	R	3
DWORSHAK	1979	2023	518	518	.07190	R	518
DWORSHAK	1976	2023	3	3	.07190	R	3
DWORSHAK	1976	2023	518	518	.07190	R	518
DWORSHAK	1975	2023	3	3	.07190	R	3
DWORSHAK	1975	2023	518	518	.07190	R	518
DWORSHAK	1974	2023	3	3	.07190	R	3
DWORSHAK	1974	2023	515	515	.07190	R	515
DWORSHAK	1983	2023	3	3	.07190	R	3
THE DALLES	1973	2023	21,983	21,983	.07190		21,983
DWORSHAK	1986	2023	197	197	.07190		197
DWORSHAK	1973	2023	803	803	.07190		803
DWORSHAK	1973	2023	132,996	132,996	.07190		132,996
DWORSHAK	1981	2023	518	518	.07190	R	518
DWORSHAK	1981	2023	3	3	.07190	R	3
DWORSHAK	1987	2023	5	5	.07190		5
DWORSHAK	1983	2023	523	523	.07190	R	523
DWORSHAK	1982	2023	518	518	.07190	R	518
DWORSHAK	1982	2023	3	3	.07190	R	3
DWORSHAK	1985	2023	1,141	1,141	.07190		1,141
THE DALLES	1974	2024	7,268	7,268	.07170		7,268
LOWER GRANITE	1976	2025	510	510	.07160	R	510
LOWER GRANITE	1975	2025	117,645	117,645	.07160		44,508
TOTAL							316,142

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2015	FISH, WILDLIFE & ENVIRONMENTAL	2000	2015	27,000	27,000	.07240		27,000
	BUREAU DIRECT FUND	1995	2015	35,000	35,000	.07500		35,000
	BPA CONSERVATION	1995	2015	85,000	85,000	.07500		85,000
	LOWER GRANITE	1975	2025	117,645	73,137	.07160		73,137
	LIBBY	1975	2025	48,138	48,138	.07160		48,138
	LOWER GRANITE	1987	2025	8	8	.07160		8
	COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	7,435	7,435	.07160		7,435
	COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	36,690	36,690	.07160		36,690
	LOWER GRANITE	1980	2025	510	510	.07160	R	510
	LOWER GRANITE	1983	2025	510	510	.07160	R	510
	LOWER GRANITE	1977	2025	510	510	.07160	R	510
	LOWER GRANITE	1978	2025	510	510	.07160	R	510
	LOWER GRANITE	1985	2025	328	328	.07160		328
	LOWER GRANITE	1981	2025	510	510	.07160	R	510
	LOWER GRANITE	1979	2025	510	510	.07160	R	510
	LOWER GRANITE	1982	2025	510	510	.07160	R	510
	LOWER GRANITE	1986	2025	215	215	.07160		215
	LOWER GRANITE	1995	2025	96	96	.07160		96
	LIBBY	1976	2026	153,432	153,432	.07150		12,806
	TOTAL							329,423
2016	FISH, WILDLIFE & ENVIRONMENTAL	2001	2016	27,000	27,000	.06920		27,000
	BONNEVILLE	2011	2016	65,593	65,593	.05797	R	65,593
	LIBBY	1976	2026	153,432	140,626	.07150		140,626
	ICE HARBOR	1976	2026	228	228	.07150		228
	ICE HARBOR	1976	2026	20,472	20,472	.07150		20,472
	COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	8,037	8,037	.07150		8,037
	COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	41,330	41,330	.07150		41,330
	LIBBY	1980	2026	1,465	1,465	.07150	R	1,465
	LIBBY	1982	2026	1,465	1,465	.07150	R	1,465
	LIBBY	1987	2026	2	2	.07150		2
	LIBBY	1983	2026	1,465	1,465	.07150	R	1,465
	LIBBY	1986	2026	283	283	.07150		283
	LIBBY	1977	2026	1,465	1,465	.07150	R	1,123
	TOTAL							309,089

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2017	FISH, WILDLIFE & ENVIRONMENTAL	2002	2017	34,732	34,732	.06690		34,732
	BPA CONSERVATION	1996	2017	40,000	40,000	.07200		40,000
	ICE HARBOR	2012	2017	13,840	13,840	.05797	R	13,840
	LIBBY	1977	2026	1,465	342	.07150	R	342
	LIBBY	1981	2026	1,465	1,465	.07150	R	1,465
	MCNARY	1996	2026	74	74	.07150		74
	MCNARY	1996	2026	277	277	.07150		277
	LIBBY	1979	2026	1,465	1,465	.07150	R	1,465
	LIBBY	1985	2026	518	518	.07150		518
	COLUMBIA BASIN	1996	2026	76	76	.07150		76
	ICE HARBOR	1985	2026	21	21	.07150		21
	LIBBY	1978	2026	1,465	1,465	.07150	R	1,465
	LIBBY	1989	2026	1	1	.07150		1
	COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	7,964	7,964	.07150		7,964
	COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	42,764	42,764	.07150		42,764
	CHIEF JOSEPH	1977	2027	30,512	30,512	.07150		30,512
	BONNEVILLE	1977	2027	15,670	15,670	.07150		15,670
	LOST CREEK	1980	2027	60	60	.07150	R	60
	LOST CREEK	1987	2027	4	4	.07150		4
	LOST CREEK	1982	2027	60	60	.07150	R	60
	LOST CREEK	1983	2027	60	60	.07150	R	60
	LOST CREEK	1977	2027	13,413	13,413	.07150		13,413
	LOST CREEK	1978	2027	58	58	.07150	R	58
	LOST CREEK	1981	2027	60	60	.07150	R	60
	LOST CREEK	1985	2027	12	12	.07150		12
	LOST CREEK	1979	2027	60	60	.07150	R	60
	LOST CREEK	1986	2027	6	6	.07150		6
	COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	7,896	7,896	.07150		7,896
	COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	42,399	42,399	.07150		42,399
	CHIEF JOSEPH	1978	2028	75,669	75,669	.07150		75,669
	LOWER GRANITE	1978	2028	40,611	40,611	.07150		40,611
	LITTLE GOOSE	1985	2028	47	47	.07150		47
	LITTLE GOOSE	1978	2028	49,578	49,578	.07150		49,578
	CHIEF JOSEPH	1988	2029	2,722	2,722	.07150		2,722
	COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	15,666	15,666	.07150		14,618
	TOTAL							438,519

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2018	MCNARY	2011	2018	29	29	.05860	R	29
	LOWER SNAKE F AND W	2011	2018	578	578	.05860	R	578
	LOWER MONUMENTAL	2011	2018	23	23	.05860	R	23
	LOOKOUT POINT-DEXTER	2011	2018	15	15	.05860	R	15
	LIBBY	2011	2018	70	70	.05860	R	70
	ICE HARBOR	2011	2018	26,168	26,168	.05860	R	26,168
	BONNEVILLE	2011	2018	27,912	27,912	.05860	R	27,912
	LOWER SNAKE F AND W	2013	2018	49	49	.05797	R	49
	COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	15,666	1,048	.07150		1,048
	COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	84,118	84,118	.07150		84,118
	CHIEF JOSEPH	1979	2029	60,079	60,079	.07150		60,079
	LOWER MONUMENTAL	1985	2029	256	256	.07150		256
	CHIEF JOSEPH	1986	2029	5,363	5,363	.07150		5,363
	CHIEF JOSEPH	1989	2029	2,227	2,227	.07150		2,227
	LOWER MONUMENTAL	1979	2029	40,669	40,669	.07150		40,669
	LIBBY	1994	2029	152	152	.07150		152
	CHIEF JOSEPH	1985	2029	16,372	16,372	.07150		16,372
	CHIEF JOSEPH	1987	2029	3,036	3,036	.07150		3,036
	LOWER GRANITE	1994	2029	1,551	1,551	.07150		1,551
	CHIEF JOSEPH	1990	2029	4,505	4,505	.07150		4,505
	COLUMBIA BASIN	1995	2030	25	25	.07150		25
	DWORSHAK	1995	2030	218	218	.07150		218
	HUNGRY HORSE	1995	2030	536	536	.07150	R	536
	HUNGRY HORSE	1995	2030	1,195	1,195	.07150	R	1,195
	LIBBY	1995	2030	15	15	.07150	R	15
	LIBBY	1995	2030	41	41	.07150		41
	LIBBY	1995	2030	94	94	.07150	R	94
	BONNEVILLE - 2ND POWER HOUSE	1981	2031	40,964	40,964	.07150		40,964
	BONNEVILLE - 2ND POWER HOUSE	1981	2031	455	455	.07150		455
	DWORSHAK	1996	2031	6	6	.07150		6
	LOST CREEK	1996	2031	31	31	.07150		31
	COLUMBIA BASIN	1996	2031	109	109	.07150		109
	LOWER GRANITE	1996	2031	206	206	.07150		206
	BONNEVILLE	1996	2031	22	22	.07150		22
	COLUMBIA BASIN	1996	2031	251	251	.07150		251
	ICE HARBOR	1996	2031	78	78	.07150		78
	DWORSHAK	1996	2031	203	203	.07150		203
	CHIEF JOSEPH	1996	2031	27	27	.07150	R	27
	BONNEVILLE - 2ND POWER HOUSE	1982	2032	203,535	203,535	.07150		203,535

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BONNEVILLE - 2ND POWER HOUSE	1982	2032	2,264	2,264	.07150		2,264
MCNARY	1997	2032	30	30	.07150		30
BONNEVILLE	1997	2032	518	518	.07150		518
CHIEF JOSEPH	1997	2032	166	166	.07150		166
BONNEVILLE - 2ND POWER HOUSE	1989	2033	1,232	1,232	.07150		1,232
LOWER SNAKE F AND W	1983	2033	9,967	9,967	.07150		9,967
COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	712	712	.07150		712
COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	15,538	15,538	.07150		15,538
BONNEVILLE - 2ND POWER HOUSE	1988	2033	1,271	1,271	.07150		1,271
BONNEVILLE - 2ND POWER HOUSE	1983	2033	62,409	62,409	.07150		62,409
COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	4,351	4,351	.07150		4,351
BONNEVILLE - 2ND POWER HOUSE	1986	2033	30,578	30,578	.07150		30,578
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	107	107	.07150		107
BONNEVILLE - 2ND POWER HOUSE	1983	2033	694	694	.07150		694
COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	1,851	1,851	.07150		1,851
COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	2,294	2,294	.07150		2,294
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	41,772	41,772	.07150		2,934
TOTAL							659,147
2019 THE DALLES	2014	2019	44	44	.05797	R	44
BPA CONSERVATION	1999	2019	6,000	6,000	.07470		6,000
MCNARY	2011	2019	60	60	.05887	R	60
JOHN DAY	2012	2019	28	28	.05860	R	28
LOOKOUT POINT-DEXTER	2011	2019	6	6	.05887	R	6
LITTLE GOOSE	2011	2019	41	41	.05887	R	41
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	41,772	38,838	.07150		38,838
COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	1,730	1,730	.07150		1,730
COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	14,439	14,439	.07150		14,439
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	16,965	16,965	.07150		16,965
COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	13,003	13,003	.07150		13,003
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	2,060	2,060	.07150		2,060
BONNEVILLE - 2ND POWER HOUSE	1987	2033	2,801	2,801	.07150		2,801
BONNEVILLE - 2ND POWER HOUSE	1990	2033	1,588	1,588	.07150		1,588
COLUMBIA BASIN - 3RD PWR HOUSE	1990	2033	6,383	6,383	.07150		6,383
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	13,192	13,192	.07150		13,192
COLUMBIA BASIN - 3RD PWR HOUSE	1989	2033	10,902	10,902	.07150		10,902
BONNEVILLE - 2ND POWER HOUSE	1985	2033	9,138	9,138	.07150		9,138
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	3,160	3,160	.07150		3,160
LOWER SNAKE F AND W	1985	2035	47,921	47,921	.07150		47,921

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JOHN DAY	1995	2035	22	22	.07150		22
JOHN DAY	1995	2035	52	52	.07150		52
JOHN DAY	1995	2035	121	121	.07150		121
LOWER MONUMENTAL	1996	2036	264	264	.07150	R	264
LOWER SNAKE F AND W	1987	2037	72,536	72,536	.07150		72,536
LIBBY	1988	2038	14,781	14,781	.07150		14,781
LOWER SNAKE F AND W	1988	2038	805	805	.07150		805
LOWER SNAKE F AND W	1990	2040	1,557	1,557	.07150		1,557
LITTLE GOOSE	1995	2040	17	17	.07150		17
LITTLE GOOSE	1995	2040	450	450	.07150		450
LITTLE GOOSE	1995	2040	733	733	.07150	R	733
ICE HARBOR	1996	2041	371	371	.07150	R	371
LOWER SNAKE F AND W	1991	2041	4,411	4,411	.07150		4,411
LOWER SNAKE F AND W	1993	2043	71,632	71,632	.07150		71,632
COLUMBIA BASIN - 3RD PWR HOUSE	1994	2044	12,631	12,631	.07150		12,631
CHIEF JOSEPH	1994	2044	4,017	4,017	.07150		4,017
LOWER SNAKE F AND W	1994	2044	4,619	4,619	.07150		4,619
BONNEVILLE - 2ND POWER HOUSE	1994	2044	5,700	5,700	.07150		5,700
CHIEF JOSEPH	1995	2045	712	712	.07150	R	712
CHIEF JOSEPH	1995	2045	784	784	.07150		784
LOWER MONUMENTAL	1995	2045	624	624	.07150		624
CHIEF JOSEPH	1995	2045	147	147	.07150		147
COLUMBIA BASIN	1995	2045	292	292	.07150	R	292
MCNARY	1995	2045	16	16	.07150		16
COLUMBIA BASIN	1995	2045	2,453	2,453	.07150		2,453
BONNEVILLE	1995	2045	243	243	.07150		243
COLUMBIA RIVER FISH MITIGATION	1995	2045	703	703	.07150		703
ALBENI FALLS	1995	2045	1,105	1,105	.07150		1,105
DETROIT-BIG CLIFF	1995	2045	38	38	.07150		38
DWORSHAK	1995	2045	1,162	1,162	.07150		1,162
ALBENI FALLS	1995	2045	443	443	.07150		443
HUNGRY HORSE	1995	2045	6,190	6,190	.07150		6,190
BONNEVILLE - 2ND POWER HOUSE	1995	2045	3,791	3,791	.07150		3,791
BONNEVILLE	1995	2045	440	440	.07150	R	440
BONNEVILLE	1995	2045	410	410	.07150	R	410
LOWER SNAKE F AND W	1995	2045	2,162	2,162	.07150		2,162
JOHN DAY	1995	2045	37	37	.07150		37
LOWER MONUMENTAL	1995	2045	99	99	.07150		99
JOHN DAY	1995	2045	608	608	.07150		608

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JOHN DAY	1995	2045	7,653	7,653	.07150	R	7,653
ALBENI FALLS	1995	2045	531	531	.07150		531
LOOKOUT POINT-DEXTER	1995	2045	33	33	.07150		33
LOWER MONUMENTAL	1995	2045	41	41	.07150		41
LOOKOUT POINT-DEXTER	1995	2045	39	39	.07150		39
LOWER MONUMENTAL	1995	2045	1,122	1,122	.07150	R	1,122
LOST CREEK	1995	2045	94	94	.07150		94
CHIEF JOSEPH	1995	2045	562	562	.07150		562
LOST CREEK	1996	2046	24	24	.07150		24
LOWER GRANITE	1996	2046	9	9	.07150	R	9
BOISE	1996	2046	450	450	.07150		450
LITTLE GOOSE	1996	2046	10	10	.07150		10
LITTLE GOOSE	1996	2046	241	241	.07150		241
LITTLE GOOSE	1996	2046	520	520	.07150	R	520
DWORSHAK	1996	2046	46	46	.07150		46
LOWER GRANITE	1996	2046	625	625	.07150		625
LOWER MONUMENTAL	1996	2046	10	10	.07150		10
BOISE	1996	2046	656	656	.07150		656
COLUMBIA RIVER FISH MITIGATION	1996	2046	42,357	42,357	.07150		6,247
TOTAL							424,390
2020 BPA CONSERVATION	2000	2020	32,555	32,555	.07400		32,555
COUGAR	2012	2020	3	3	.05887	R	3
COUGAR	2013	2020	2	2	.05860	R	2
LITTLE GOOSE	2013	2020	23	23	.05860	R	23
COLUMBIA RIVER FISH MITIGATION	1996	2046	42,357	36,110	.07150		36,110
BONNEVILLE - 2ND POWER HOUSE	1996	2046	376	376	.07150		376
LOWER SNAKE F AND W	1996	2046	10,185	10,185	.07150		10,185
BONNEVILLE	1996	2046	18	18	.07150		18
LITTLE GOOSE	1996	2046	211	211	.07150		211
BONNEVILLE	1996	2046	18	18	.07150		18
MCNARY	1996	2046	619	619	.07150		619
BONNEVILLE	1996	2046	80	80	.07150		80
DWORSHAK	1996	2046	4	4	.07150		4
BONNEVILLE	1996	2046	109	109	.07150		109
COLUMBIA BASIN	1996	2046	426	426	.07150		426
LITTLE GOOSE	1996	2046	10	10	.07150	R	10
THE DALLES	1996	2046	1,991	1,991	.07150		1,991
BONNEVILLE	1996	2046	142	142	.07150		142

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BONNEVILLE	1996	2046	223	223	.07150		223
GREEN PETER-FOSTER	1996	2046	26	26	.07150		26
BONNEVILLE	1996	2046	751	751	.07150		751
DWORSHAK	1996	2046	3	3	.07150		3
BONNEVILLE	1996	2046	1,322	1,322	.07150	R	1,322
COLUMBIA BASIN	1996	2046	368	368	.07150		368
CHIEF JOSEPH	1996	2046	3	3	.07150	R	3
CHIEF JOSEPH	1996	2046	4	4	.07150	R	4
HILLS CREEK	1996	2046	28	28	.07150		28
HUNGRY HORSE	1996	2046	15	15	.07150		15
HUNGRY HORSE	1996	2046	2	2	.07150		2
CHIEF JOSEPH	1996	2046	355	355	.07150		355
CHIEF JOSEPH	1996	2046	729	729	.07150		729
LITTLE GOOSE	1996	2046	3,909	3,909	.07150	R	3,909
HUNGRY HORSE	1997	2047	216	216	.07150		216
LOWER GRANITE	1997	2047	677	677	.07150		677
COUGAR	1997	2047	26	26	.07150		26
DWORSHAK	1997	2047	7,588	7,588	.07150		7,588
JOHN DAY	1997	2047	179	179	.07150		179
ALBENI FALLS	1997	2047	477	477	.07150		477
BOISE	1997	2047	2,284	2,284	.07150		2,284
BONNEVILLE	1997	2047	161	161	.07150		161
MINIDOKA	1997	2047	51,558	51,558	.07150		51,558
CHIEF JOSEPH	1997	2047	657	657	.07150		657
COLUMBIA BASIN	1997	2047	3,393	3,393	.07150		3,393
ICE HARBOR	1997	2047	67	67	.07150		67
LOWER SNAKE F AND W	1997	2047	2,173	2,173	.07150		2,173
LIBBY	1997	2047	660	660	.07150		660
LITTLE GOOSE	1997	2047	1	1	.07150		1
BPA PROGRAM	2001	2046	7,600	7,600	.07290		7,600
BUREAU DIRECT FUND	2001	2046	76,100	76,100	.07290		76,100
BPA PROGRAM	2002	2047	2,100	2,100	.07080		2,100
BUREAU DIRECT FUND	2002	2047	89,855	89,855	.07080		89,855
BPA CONSERVATION	2001	2021	1,000	1,000	.07110		1,000
BONNEVILLE	2001	2051	17,820	17,820	.06390		17,820
COLUMBIA BASIN	2001	2051	3,557	3,557	.06390		3,557
COLUMBIA BASIN	2001	2051	1,163	1,163	.06390		1,163
THE DALLES	2001	2051	12,528	12,528	.06390		12,528
HUNGRY HORSE	2013	2043	481	481	.06184	R	481

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
LOWER SNAKE F AND W	2013	2043	2,246	2,246	.06184	R	2,246
DETROIT-BIG CLIFF	2014	2044	629	629	.06184	R	629
BONNEVILLE	2011	2046	74,612	74,612	.06184	R	74,612
YAKIMA-CHANDLER	2016	2046	62	62	.06184	R	62
ICE HARBOR	2011	2046	6,550	6,550	.06184	R	6,550
LIBBY	2011	2046	10,633	10,633	.06184	R	10,633
BONNEVILLE	2012	2047	15	15	.06184	R	15
MINIDOKA	2017	2047	90	90	.06184	R	90
BOISE	2017	2047	66	66	.06184	R	66
LOST CREEK	2012	2047	17	17	.06184	R	17
COLUMBIA BASIN	2013	2048	55,730	55,730	.06184	R	29,625

TOTAL							497,486
2021							
BONNEVILLE	2016	2021	65,593	65,593	.05797	R	65,593
DWORSHAK	2013	2021	38	38	.05887	R	38
BONNEVILLE	2013	2021	4,071	4,071	.05887	R	4,071
LITTLE GOOSE	2011	2021	12	12	.05941	R	12
BONNEVILLE	2011	2021	114	114	.05941	R	114
COLUMBIA BASIN	2013	2048	55,730	26,105	.06184	R	26,105
CHIEF JOSEPH	2013	2048	70,717	70,717	.06184	R	70,717
LITTLE GOOSE	2013	2048	9,945	9,945	.06184	R	9,945
YAKIMA-ROZA	2018	2048	5	5	.06184	R	5
LOWER GRANITE	2013	2048	10,110	10,110	.06184	R	10,110
LOWER MONUMENTAL	2014	2049	9,606	9,606	.06184	R	9,606
LITTLE GOOSE	2011	2051	10,695	10,695	.06184	R	10,695
COLUMBIA BASIN	2017	2052	40,254	40,254	.06184	R	40,254
BONNEVILLE	2017	2052	71,248	71,248	.06184	R	71,248
LOWER SNAKE F AND W	2018	2053	1,155	1,155	.06184	R	1,155
DWORSHAK	2013	2053	7,814	7,814	.06184	R	7,814
LIBBY	2020	2055	7,926	7,926	.06184	R	7,926
LOWER GRANITE	2015	2055	7,159	7,159	.06184	R	7,159
LIBBY	2016	2056	15,884	15,884	.06184	R	15,884
ICE HARBOR	2016	2056	4,395	4,395	.06184	R	4,395
LOST CREEK	2017	2057	1,572	1,572	.06184	R	1,572
GREEN PETER-FOSTER	2012	2057	2,013	2,013	.06184	R	2,013
CHIEF JOSEPH	2018	2058	45,190	45,190	.06184	R	45,190
GREEN PETER-FOSTER	2013	2058	1,731	1,731	.06184	R	1,731
LITTLE GOOSE	2018	2058	8,918	8,918	.06184	R	8,918
COLUMBIA BASIN	2018	2058	194,575	194,575	.06184	R	134,971

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	

TOTAL							557,241	
2022	THE DALLES	2015	2022	48	48	.05860	R	48
	ICE HARBOR	2012	2022	13,491	13,491	.05941	R	13,491
	ICE HARBOR	2017	2022	13,840	13,840	.05797	R	13,840
	DWORSHAK	2015	2022	17	17	.05860	R	17
	HILLS CREEK	2022	2052	350	350	.06184	R	350
	ICE HARBOR	2022	2052	366	366	.06184	R	366
	MINIDOKA	2022	2057	3,131	3,131	.06184	R	3,131
	COLUMBIA BASIN	2018	2058	194,575	59,604	.06184	R	59,604
	LOWER GRANITE	2018	2058	7,851	7,851	.06184	R	7,851
	LOWER MONUMENTAL	2019	2059	6,975	6,975	.06184	R	6,975
	JOHN DAY	2015	2060	29,248	29,248	.06184	R	29,248
	BONNEVILLE	2021	2061	65,782	65,782	.06184	R	65,782
	BONNEVILLE	2022	2062	63,680	63,680	.06184	R	63,680
	ICE HARBOR	2012	2062	3,989	3,989	.06184	R	3,989
	BOISE	2017	2062	776	776	.06184	R	776
	THE DALLES	2018	2063	5,899	5,899	.06184	R	5,899
	ICE HARBOR	2021	2066	28	28	.06184	R	28
	LOST CREEK	2022	2067	1,227	1,227	.06184	R	1,227
	BONNEVILLE	2022	2067	58,848	58,848	.06184	R	58,848
	MINIDOKA	2017	2067	4,866	4,866	.06184	R	4,866
	LOWER MONUMENTAL	2019	2069	4,176	4,176	.06184	R	4,176
	LITTLE GOOSE	2021	2071	3,616	3,616	.06184	R	3,616
	COLUMBIA RIVER FISH MITIGATION	2001	2051	457,474	457,474	.06180		204,315

TOTAL							552,123	
2023	LOWER SNAKE F AND W	2013	2023	1,053	1,053	.05941	R	1,053
	LOWER SNAKE F AND W	2018	2023	49	49	.05797	R	49
	LOWER SNAKE F AND W	2015	2023	110	110	.05887	R	110
	DWORSHAK	2013	2023	186	186	.05941	R	186
	THE DALLES	2015	2023	72	72	.05887	R	72
	LOWER GRANITE	2011	2023	21	21	.05966	R	21
	GREEN PETER-FOSTER	2015	2023	14	14	.05887	R	14
	LOWER GRANITE	2015	2023	33	33	.05887	R	33
	GREEN PETER-FOSTER	2016	2023	17	17	.05860	R	17
	HUNGRY HORSE	2023	2058	3,396	3,396	.06184	R	3,396
	LOWER SNAKE F AND W	2023	2063	7,283	7,283	.06184	R	7,283
	COLUMBIA BASIN	2023	2068	60,693	60,693	.06184	R	60,693

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LITTLE GOOSE	2023	2068	128	128	.06184	R	128
DWORSHAK	2023	2073	1,771	1,771	.06184	R	1,771
COLUMBIA RIVER FISH MITIGATION	2001	2051	457,474	253,159	.06180		253,159
BONNEVILLE	2002	2052	8,910	8,910	.06180		8,910
COLUMBIA BASIN	2002	2052	1,162	1,162	.06180		1,162
COLUMBIA RIVER FISH MITIGATION	2002	2052	111,042	111,042	.06180		111,042
LOWER SNAKE F AND W	2002	2052	794	794	.06180		794
THE DALLES	2002	2052	12,528	12,528	.06180		12,528
COLUMBIA BASIN	2000	2050	1,185	1,185	.06125		1,185
BONNEVILLE	2000	2050	23,476	23,476	.06125		23,476
LOWER MONUMENTAL	2000	2050	521	521	.06125		521
LOWER GRANITE	2000	2050	1,261	1,261	.06125		1,261
MCNARY	2000	2050	937	937	.06125		937
COLUMBIA BASIN	2000	2050	817	817	.06125		817
COLUMBIA RIVER FISH MITIGATION	2000	2050	4,541	4,541	.06125		4,541
ICE HARBOR	2000	2050	696	696	.06125		696
JOHN DAY	2000	2050	17,643	17,643	.06125		17,643
HILLS CREEK	2012	2037	1	1	.06123	R	1
ICE HARBOR	2012	2037	1,606	1,606	.06123	R	1,606
COUGAR	2014	2039	136	136	.06123	R	136
BONNEVILLE	2016	2041	2,632	2,632	.06123	R	2,632
GREEN PETER-FOSTER	2017	2042	136	136	.06123	R	136
MINIDOKA	2017	2042	1,996	1,996	.06123	R	1,996
GREEN PETER-FOSTER	2018	2043	70	70	.06123	R	70
LOWER MONUMENTAL	2019	2044	865	865	.06123	R	865
JOHN DAY	2020	2045	658	658	.06123	R	658
LITTLE GOOSE	2021	2046	991	991	.06123	R	991
COLUMBIA BASIN	2022	2047	45,862	45,862	.06123	R	45,862
DWORSHAK	2023	2048	7,478	7,478	.06123	R	7,478
COLUMBIA BASIN	2002	2027	507	507	.06120		507
LITTLE GOOSE	2011	2031	30,587	30,587	.06062	R	30,587
HUNGRY HORSE	2013	2033	716	716	.06062	R	716
DWORSHAK	2013	2033	3,463	3,463	.06062	R	3,463
THE DALLES	2013	2033	229	229	.06062	R	229
DETROIT-BIG CLIFF	2014	2034	4,652	4,652	.06062	R	640
TOTAL							612,071

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2024	DETROIT-BIG CLIFF	2014	2024	33	33	.05941	R	33
	LOWER GRANITE	2017	2024	24	24	.05860	R	24
	THE DALLES	2019	2024	44	44	.05797	R	44
	DETROIT-BIG CLIFF	2017	2024	2	2	.05860	R	2
	DETROIT-BIG CLIFF	2024	2059	2,538	2,538	.06184	R	2,538
	LOWER MONUMENTAL	2024	2069	114	114	.06184	R	114
	DETROIT-BIG CLIFF	2014	2034	4,652	4,012	.06062	R	4,012
	DETROIT-BIG CLIFF	2014	2034	301	301	.06062	R	301
	MCNARY	2015	2035	1,254	1,254	.06062	R	1,254
	LOOKOUT POINT-DEXTER	2015	2035	448	448	.06062	R	448
	LOOKOUT POINT-DEXTER	2015	2035	77	77	.06062	R	77
	LOWER GRANITE	2015	2035	36,286	36,286	.06062	R	36,286
	ALBENI FALLS	2015	2035	948	948	.06062	R	948
	LIBBY	2016	2036	676	676	.06062	R	676
	ICE HARBOR	2016	2036	198	198	.06062	R	198
	YAKIMA-CHANDLER	2016	2036	90	90	.06062	R	90
	LOST CREEK	2017	2037	38	38	.06062	R	38
	MINIDOKA	2017	2037	95	95	.06062	R	95
	MINIDOKA	2017	2037	283	283	.06062	R	283
	CHIEF JOSEPH	2017	2037	2,213	2,213	.06062	R	2,213
	CHIEF JOSEPH	2018	2038	719	719	.06062	R	719
	LITTLE GOOSE	2018	2038	197	197	.06062	R	197
	LOWER GRANITE	2018	2038	317	317	.06062	R	317
	YAKIMA-ROZA	2018	2038	8	8	.06062	R	8
	COLUMBIA BASIN	2018	2038	5,578	5,578	.06062	R	5,578
	THE DALLES	2019	2039	1,267	1,267	.06062	R	1,267
	LOWER MONUMENTAL	2019	2039	314	314	.06062	R	314
	BONNEVILLE	2021	2041	630	630	.06062	R	630
	ICE HARBOR	2022	2042	1,472	1,472	.06062	R	1,472
	LOWER SNAKE F AND W	2023	2043	5,288	5,288	.06062	R	5,288
	COUGAR	2024	2044	72	72	.06062	R	72
	BONNEVILLE	2012	2027	1,127	1,127	.06002	R	1,127
	LOWER SNAKE F AND W	2013	2028	1,137	1,137	.06002	R	1,137
	HUNGRY HORSE	2013	2028	477	477	.06002	R	477
	LOWER MONUMENTAL	2014	2029	29,889	29,889	.06002	R	29,889
	DETROIT-BIG CLIFF	2014	2029	17	17	.06002	R	17
	DETROIT-BIG CLIFF	2014	2029	23,842	23,842	.06002	R	23,842
	LOOKOUT POINT-DEXTER	2015	2030	441	441	.06002	R	441
	LIBBY	2015	2030	211	211	.06002	R	211

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ALBENI FALLS	2015	2030	59	59	.06002	R	59
JOHN DAY	2015	2030	160	160	.06002	R	160
JOHN DAY	2015	2030	2,019	2,019	.06002	R	2,019
MCNARY	2015	2030	21,516	21,516	.06002	R	21,516
YAKIMA-CHANDLER	2016	2031	26	26	.06002	R	26
LITTLE GOOSE	2016	2031	31,052	31,052	.06002	R	31,052
BONNEVILLE	2016	2031	2,616	2,616	.06002	R	2,616
BOISE	2017	2032	13	13	.06002	R	13
CHIEF JOSEPH	2017	2032	1,448	1,448	.06002	R	1,448
MINIDOKA	2017	2032	129	129	.06002	R	129
THE DALLES	2018	2033	1,986	1,986	.06002	R	1,986
YAKIMA-ROZA	2018	2033	2	2	.06002	R	2
DWORSHAK	2018	2033	2,968	2,968	.06002	R	2,968
THE DALLES	2019	2034	1,287	1,287	.06002	R	1,287
LOWER GRANITE	2020	2035	17,678	17,678	.06002	R	17,678
LIBBY	2021	2036	1,924	1,924	.06002	R	1,924
MINIDOKA	2022	2037	87	87	.06002	R	87
COLUMBIA BASIN	2022	2037	858	858	.06002	R	858
LOWER GRANITE	2023	2038	317	317	.06002	R	317
COLUMBIA BASIN	2023	2038	1,161	1,161	.06002	R	1,161
CHIEF JOSEPH	2023	2038	205	205	.06002	R	205
COUGAR	2024	2039	44	44	.06002	R	44
LOWER SNAKE F AND W	2001	2051	7,649	7,649	.05990		7,649
LOST CREEK	2013	2025	5	5	.05966	R	5
BONNEVILLE	2013	2025	148	148	.05966	R	148
DETROIT-BIG CLIFF	2014	2026	24	24	.05966	R	24
ALBENI FALLS	2015	2027	134	134	.05966	R	134
LOOKOUT POINT-DEXTER	2015	2027	40	40	.05966	R	40
MCNARY	2015	2027	29,075	29,075	.05966	R	29,075
LOWER MONUMENTAL	2017	2029	2,326	2,326	.05966	R	2,326
JOHN DAY	2018	2030	44	44	.05966	R	44
LOWER SNAKE F AND W	2019	2031	528	528	.05966	R	528
LITTLE GOOSE	2019	2031	2,326	2,326	.05966	R	2,326
THE DALLES	2019	2031	9	9	.05966	R	9
THE DALLES	2021	2033	1,756	1,756	.05966	R	1,756
DWORSHAK	2021	2033	55	55	.05966	R	55
ICE HARBOR	2022	2034	4,885	4,885	.05966	R	4,885
LOWER GRANITE	2023	2035	21	21	.05966	R	21
LOWER GRANITE	2015	2025	904	904	.05941	R	904

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MCNARY	2015	2025	59,313	59,313	.05941	R	59,313
ALBENI FALLS	2015	2025	1	1	.05941	R	1
LOOKOUT POINT-DEXTER	2015	2025	110	110	.05941	R	110
LIBBY	2016	2026	70	70	.05941	R	70
YAKIMA-CHANDLER	2016	2026	60	60	.05941	R	60
CHIEF JOSEPH	2017	2027	42	42	.05941	R	42
GREEN PETER-FOSTER	2017	2027	22	22	.05941	R	22
MINIDOKA	2017	2027	16	16	.05941	R	16
LITTLE GOOSE	2018	2028	1,055	1,055	.05941	R	1,055
LOWER MONUMENTAL	2019	2029	12	12	.05941	R	12
THE DALLES	2019	2029	1	1	.05941	R	1
LITTLE GOOSE	2021	2031	12	12	.05941	R	12
BONNEVILLE	2021	2031	114	114	.05941	R	114
ICE HARBOR	2022	2032	13,491	13,491	.05941	R	13,491
DWORSHAK	2023	2033	186	186	.05941	R	186
LOWER SNAKE F AND W	2023	2033	1,053	1,053	.05941	R	1,053
DETROIT-BIG CLIFF	2024	2034	33	33	.05941	R	33
LOST CREEK	2017	2025	1	1	.05887	R	1
LOWER MONUMENTAL	2017	2025	45	45	.05887	R	45
ICE HARBOR	2018	2026	7,094	7,094	.05887	R	7,094
DETROIT-BIG CLIFF	2018	2026	5	5	.05887	R	5
JOHN DAY	2018	2026	5	5	.05887	R	5
MCNARY	2019	2027	60	60	.05887	R	60
LOOKOUT POINT-DEXTER	2019	2027	6	6	.05887	R	6
LITTLE GOOSE	2019	2027	41	41	.05887	R	41
COUGAR	2020	2028	3	3	.05887	R	3
DWORSHAK	2021	2029	38	38	.05887	R	38
BONNEVILLE	2021	2029	4,071	4,071	.05887	R	4,071
LOWER GRANITE	2023	2031	33	33	.05887	R	33
THE DALLES	2023	2031	72	72	.05887	R	72
LOWER SNAKE F AND W	2023	2031	110	110	.05887	R	110
GREEN PETER-FOSTER	2023	2031	14	14	.05887	R	14
LOWER MONUMENTAL	2018	2025	23	23	.05860	R	23
ICE HARBOR	2018	2025	26,168	26,168	.05860	R	26,168
MCNARY	2018	2025	29	29	.05860	R	29
LOOKOUT POINT-DEXTER	2018	2025	15	15	.05860	R	15
LIBBY	2018	2025	70	70	.05860	R	70
LOWER SNAKE F AND W	2018	2025	578	578	.05860	R	578
BONNEVILLE	2018	2025	27,912	27,912	.05860	R	27,912

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
JOHN DAY	2019	2026	28	28	.05860	R	28	
LITTLE GOOSE	2020	2027	23	23	.05860	R	23	
COUGAR	2020	2027	2	2	.05860	R	2	
THE DALLES	2022	2029	48	48	.05860	R	48	
DWORSHAK	2022	2029	17	17	.05860	R	17	
GREEN PETER-FOSTER	2023	2030	17	17	.05860	R	17	
DETROIT-BIG CLIFF	2024	2031	2	2	.05860	R	2	
LOWER GRANITE	2024	2031	24	24	.05860	R	24	
BONNEVILLE	2021	2026	65,593	65,593	.05797	R	65,593	
ICE HARBOR	2022	2027	13,840	13,840	.05797	R	13,840	
LOWER SNAKE F AND W	2023	2028	49	49	.05797	R	49	
THE DALLES	2024	2029	44	44	.05797	R	44	
BONNEVILLE	1999	2044	29,984	29,984	.05325		29,984	
COLUMBIA RIVER FISH MITIGATION	1999	2049	20,689	20,689	.05325		20,689	
TOTAL							532,505	
2025	MCNARY	2025	2060	64,093	64,093	.06184	R	64,093
	ALBENI FALLS	2025	2060	8,703	8,703	.06184	R	8,703
	LIBBY	2025	2065	7,989	7,989	.06184	R	7,989
	LOWER GRANITE	2025	2075	1,605	1,605	.06184	R	1,605
	LOWER GRANITE	2025	2050	211	211	.06123	R	211
	LOST CREEK	2025	2037	5	5	.05966	R	5
	BONNEVILLE	2025	2037	148	148	.05966	R	148
	LOWER GRANITE	2025	2035	904	904	.05941	R	904
	LOOKOUT POINT-DEXTER	2025	2035	110	110	.05941	R	110
	MCNARY	2025	2035	59,313	59,313	.05941	R	59,313
	ALBENI FALLS	2025	2035	1	1	.05941	R	1
	LOWER MONUMENTAL	2025	2033	45	45	.05887	R	45
	LOST CREEK	2025	2033	1	1	.05887	R	1
	MCNARY	2025	2032	29	29	.05860	R	29
	LIBBY	2025	2032	70	70	.05860	R	70
	ICE HARBOR	2025	2032	26,168	26,168	.05860	R	26,168
	LOWER SNAKE F AND W	2025	2032	578	578	.05860	R	578
	BONNEVILLE	2025	2032	27,912	27,912	.05860	R	27,912
	LOOKOUT POINT-DEXTER	2025	2032	15	15	.05860	R	15
	LOWER MONUMENTAL	2025	2032	23	23	.05860	R	23
TOTAL							197,923	

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YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2026	YAKIMA-CHANDLER	2026	2061	486	486	.06184	R	486
	LIBBY	2026	2076	3,388	3,388	.06184	R	3,388
	ICE HARBOR	2026	2076	1,262	1,262	.06184	R	1,262
	LIBBY	2026	2051	2,667	2,667	.06123	R	2,667
	ICE HARBOR	2026	2051	43	43	.06123	R	43
	DETROIT-BIG CLIFF	2026	2038	24	24	.05966	R	24
	YAKIMA-CHANDLER	2026	2036	60	60	.05941	R	60
	LIBBY	2026	2036	70	70	.05941	R	70
	ICE HARBOR	2026	2034	7,094	7,094	.05887	R	7,094
	JOHN DAY	2026	2034	5	5	.05887	R	5
	DETROIT-BIG CLIFF	2026	2034	5	5	.05887	R	5
	JOHN DAY	2026	2033	28	28	.05860	R	28
	BONNEVILLE	2026	2031	65,593	65,593	.05797	R	65,593
	TOTAL							80,725
2027	GREEN PETER-FOSTER	2027	2057	451	451	.06184	R	451
	MINIDOKA	2027	2062	752	752	.06184	R	752
	CHIEF JOSEPH	2027	2062	58,270	58,270	.06184	R	58,270
	COLUMBIA BASIN	2027	2067	44,301	44,301	.06184	R	44,301
	BONNEVILLE	2027	2072	975	975	.06184	R	975
	LOST CREEK	2027	2077	588	588	.06184	R	588
	BONNEVILLE	2027	2077	302	302	.06184	R	302
	BOISE	2027	2077	8,003	8,003	.06184	R	8,003
	LOST CREEK	2027	2052	76	76	.06123	R	76
	BONNEVILLE	2027	2052	14	14	.06123	R	14
	BOISE	2027	2052	21,934	21,934	.06123	R	21,934
	GREEN PETER-FOSTER	2027	2047	985	985	.06062	R	985
	COLUMBIA BASIN	2027	2047	4,761	4,761	.06062	R	4,761
	BOISE	2027	2047	143	143	.06062	R	143
	BONNEVILLE	2027	2042	1,127	1,127	.06002	R	1,127
	MCNARY	2027	2039	29,075	29,075	.05966	R	29,075
	LOOKOUT POINT-DEXTER	2027	2039	40	40	.05966	R	40
	ALBENI FALLS	2027	2039	134	134	.05966	R	134
	CHIEF JOSEPH	2027	2037	42	42	.05941	R	42
	GREEN PETER-FOSTER	2027	2037	22	22	.05941	R	22
	MINIDOKA	2027	2037	16	16	.05941	R	16
	LOOKOUT POINT-DEXTER	2027	2035	6	6	.05887	R	6
	LITTLE GOOSE	2027	2035	41	41	.05887	R	41
	MCNARY	2027	2035	60	60	.05887	R	60

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
COUGAR	2027	2034	2	2	.05860	R	2
LITTLE GOOSE	2027	2034	23	23	.05860	R	23
ICE HARBOR	2027	2032	13,840	13,840	.05797	R	13,840
TOTAL							185,983
2028							
GREEN PETER-FOSTER	2028	2058	163	163	.06184	R	163
YAKIMA-ROZA	2028	2063	56	56	.06184	R	56
LOWER SNAKE F AND W	2028	2073	1,087	1,087	.06184	R	1,087
LOWER GRANITE	2028	2078	1,676	1,676	.06184	R	1,676
LITTLE GOOSE	2028	2078	1,731	1,731	.06184	R	1,731
COLUMBIA BASIN	2028	2078	118,217	118,217	.06184	R	118,217
CHIEF JOSEPH	2028	2078	12,498	12,498	.06184	R	12,498
LITTLE GOOSE	2028	2053	38	38	.06123	R	38
HUNGRY HORSE	2028	2053	10,903	10,903	.06123	R	10,903
LOWER GRANITE	2028	2053	119	119	.06123	R	119
COLUMBIA BASIN	2028	2053	50,328	50,328	.06123	R	50,328
CHIEF JOSEPH	2028	2053	347	347	.06123	R	347
GREEN PETER-FOSTER	2028	2048	805	805	.06062	R	805
HUNGRY HORSE	2028	2043	477	477	.06002	R	477
LOWER SNAKE F AND W	2028	2043	1,137	1,137	.06002	R	1,137
LITTLE GOOSE	2028	2038	1,055	1,055	.05941	R	1,055
COUGAR	2028	2036	3	3	.05887	R	3
LOWER SNAKE F AND W	2028	2033	49	49	.05797	R	49
TOTAL							200,689
2029							
LOWER MONUMENTAL	2029	2059	250	250	.06184	R	250
THE DALLES	2029	2064	71,234	71,234	.06184	R	71,234
LOWER MONUMENTAL	2029	2079	1,696	1,696	.06184	R	1,696
LOWER MONUMENTAL	2029	2054	41	41	.06123	R	41
DETROIT-BIG CLIFF	2029	2054	211	211	.06123	R	211
DETROIT-BIG CLIFF	2029	2054	108	108	.06123	R	108
LOWER MONUMENTAL	2029	2049	30,587	30,587	.06062	R	30,587
LOWER MONUMENTAL	2029	2044	29,889	29,889	.06002	R	29,889
DETROIT-BIG CLIFF	2029	2044	23,842	23,842	.06002	R	23,842
DETROIT-BIG CLIFF	2029	2044	17	17	.06002	R	17
LOWER MONUMENTAL	2029	2041	2,326	2,326	.05966	R	2,326
LOWER MONUMENTAL	2029	2039	12	12	.05941	R	12
THE DALLES	2029	2039	1	1	.05941	R	1
DWORSHAK	2029	2037	38	38	.05887	R	38

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
BONNEVILLE	2029	2037	4,071	4,071	.05887	R	4,071
DWORSHAK	2029	2036	17	17	.05860	R	17
THE DALLES	2029	2036	48	48	.05860	R	48
THE DALLES	2029	2034	44	44	.05797	R	44
TOTAL							164,432
2030 JOHN DAY	2030	2060	3,602	3,602	.06184	R	3,602
MCNARY	2030	2055	927	927	.06123	R	927
LOOKOUT POINT-DEXTER	2030	2055	545	545	.06123	R	545
LOOKOUT POINT-DEXTER	2030	2055	35	35	.06123	R	35
ALBENI FALLS	2030	2055	2,582	2,582	.06123	R	2,582
JOHN DAY	2030	2050	2,019	2,019	.06062	R	2,019
MCNARY	2030	2045	21,516	21,516	.06002	R	21,516
JOHN DAY	2030	2045	160	160	.06002	R	160
LIBBY	2030	2045	211	211	.06002	R	211
JOHN DAY	2030	2045	2,019	2,019	.06002	R	2,019
ALBENI FALLS	2030	2045	59	59	.06002	R	59
LOOKOUT POINT-DEXTER	2030	2045	441	441	.06002	R	441
JOHN DAY	2030	2042	44	44	.05966	R	44
GREEN PETER-FOSTER	2030	2037	17	17	.05860	R	17
TOTAL							34,177
2031 LITTLE GOOSE	2031	2061	245	245	.06184	R	245
BONNEVILLE	2031	2076	1,133	1,133	.06184	R	1,133
YAKIMA-CHANDLER	2031	2056	957	957	.06123	R	957
LITTLE GOOSE	2031	2051	30,587	30,587	.06062	R	30,587
LITTLE GOOSE	2031	2046	31,052	31,052	.06002	R	31,052
YAKIMA-CHANDLER	2031	2046	26	26	.06002	R	26
BONNEVILLE	2031	2046	2,616	2,616	.06002	R	2,616
LOWER SNAKE F AND W	2031	2043	528	528	.05966	R	528
LITTLE GOOSE	2031	2043	2,326	2,326	.05966	R	2,326
THE DALLES	2031	2043	9	9	.05966	R	9
LITTLE GOOSE	2031	2041	12	12	.05941	R	12
BONNEVILLE	2031	2041	114	114	.05941	R	114
GREEN PETER-FOSTER	2031	2039	14	14	.05887	R	14
LOWER SNAKE F AND W	2031	2039	110	110	.05887	R	110
LOWER GRANITE	2031	2039	33	33	.05887	R	33
THE DALLES	2031	2039	72	72	.05887	R	72
DETROIT-BIG CLIFF	2031	2038	2	2	.05860	R	2

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+	LOWER GRANITE	2031	2038	24	24	.05860	R	24
	BONNEVILLE	2031	2036	65,593	65,593	.05797	R	65,593
	TOTAL							135,453
2032	ICE HARBOR	2032	2067	17,066	17,066	.06184	R	17,066
	BOISE	2032	2067	987	987	.06184	R	987
	BONNEVILLE	2032	2082	13,802	13,802	.06184	R	13,802
	MINIDOKA	2032	2057	2,385	2,385	.06123	R	2,385
	CHIEF JOSEPH	2032	2057	4,254	4,254	.06123	R	4,254
	BONNEVILLE	2032	2057	4,324	4,324	.06123	R	4,324
	CHIEF JOSEPH	2032	2047	1,448	1,448	.06002	R	1,448
	MINIDOKA	2032	2047	129	129	.06002	R	129
	BOISE	2032	2047	13	13	.06002	R	13
	ICE HARBOR	2032	2042	13,491	13,491	.05941	R	13,491
	LOWER SNAKE F AND W	2032	2039	578	578	.05860	R	578
	LIBBY	2032	2039	70	70	.05860	R	70
	LOWER MONUMENTAL	2032	2039	23	23	.05860	R	23
	LOOKOUT POINT-DEXTER	2032	2039	15	15	.05860	R	15
	BONNEVILLE	2032	2039	27,912	27,912	.05860	R	27,912
	MCNARY	2032	2039	29	29	.05860	R	29
	ICE HARBOR	2032	2039	26,168	26,168	.05860	R	26,168
	ICE HARBOR	2032	2037	13,840	13,840	.05797	R	13,840
	TOTAL							126,534
2033	THE DALLES	2033	2063	19,635	19,635	.06184	R	19,635
	HUNGRY HORSE	2033	2073	6,230	6,230	.06184	R	6,230
	LOWER SNAKE F AND W	2033	2083	16,991	16,991	.06184	R	16,991
	YAKIMA-ROZA	2033	2058	108	108	.06123	R	108
	LOWER SNAKE F AND W	2033	2058	1,022	1,022	.06123	R	1,022
	THE DALLES	2033	2053	229	229	.06062	R	229
	HUNGRY HORSE	2033	2053	716	716	.06062	R	716
	DWORSHAK	2033	2053	3,463	3,463	.06062	R	3,463
	YAKIMA-ROZA	2033	2048	2	2	.06002	R	2
	DWORSHAK	2033	2048	2,968	2,968	.06002	R	2,968
	THE DALLES	2033	2048	1,986	1,986	.06002	R	1,986
	THE DALLES	2033	2045	1,756	1,756	.05966	R	1,756
	DWORSHAK	2033	2045	55	55	.05966	R	55
	LOWER SNAKE F AND W	2033	2043	1,053	1,053	.05941	R	1,053
	DWORSHAK	2033	2043	186	186	.05941	R	186

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LOST CREEK	2033	2041	1	1	.05887	R	1
LOWER MONUMENTAL	2033	2041	45	45	.05887	R	45
JOHN DAY	2033	2040	28	28	.05860	R	28
LOWER SNAKE F AND W	2033	2038	49	49	.05797	R	49
TOTAL							56,523
2034 COUGAR	2034	2069	2,616	2,616	.06184	R	2,616
DETROIT-BIG CLIFF	2034	2074	13,078	13,078	.06184	R	13,078
DETROIT-BIG CLIFF	2034	2074	1,522	1,522	.06184	R	1,522
THE DALLES	2034	2059	2,600	2,600	.06123	R	2,600
DETROIT-BIG CLIFF	2034	2054	301	301	.06062	R	301
DETROIT-BIG CLIFF	2034	2054	4,652	4,652	.06062	R	4,652
THE DALLES	2034	2049	1,287	1,287	.06002	R	1,287
ICE HARBOR	2034	2046	4,885	4,885	.05966	R	4,885
DETROIT-BIG CLIFF	2034	2044	33	33	.05941	R	33
DETROIT-BIG CLIFF	2034	2042	5	5	.05887	R	5
JOHN DAY	2034	2042	5	5	.05887	R	5
ICE HARBOR	2034	2042	7,094	7,094	.05887	R	7,094
LITTLE GOOSE	2034	2041	23	23	.05860	R	23
COUGAR	2034	2041	2	2	.05860	R	2
THE DALLES	2034	2039	44	44	.05797	R	44
TOTAL							38,147
2035 LOWER GRANITE	2035	2065	678	678	.06184	R	678
MCNARY	2035	2075	32,886	32,886	.06184	R	32,886
LOOKOUT POINT-DEXTER	2035	2075	2,161	2,161	.06184	R	2,161
LOOKOUT POINT-DEXTER	2035	2075	10,836	10,836	.06184	R	10,836
ALBENI FALLS	2035	2075	651	651	.06184	R	651
LIBBY	2035	2085	6,164	6,164	.06184	R	6,164
LIBBY	2035	2060	284	284	.06123	R	284
LOOKOUT POINT-DEXTER	2035	2055	448	448	.06062	R	448
MCNARY	2035	2055	1,254	1,254	.06062	R	1,254
LOOKOUT POINT-DEXTER	2035	2055	77	77	.06062	R	77
ALBENI FALLS	2035	2055	948	948	.06062	R	948
LOWER GRANITE	2035	2055	36,286	36,286	.06062	R	36,286
LOWER GRANITE	2035	2050	17,678	17,678	.06002	R	17,678
LOWER GRANITE	2035	2047	21	21	.05966	R	21
LOOKOUT POINT-DEXTER	2035	2045	110	110	.05941	R	110
MCNARY	2035	2045	59,313	59,313	.05941	R	59,313

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
LOWER GRANITE	2035	2045	904	904	.05941	R	904
ALBENI FALLS	2035	2045	1	1	.05941	R	1
LITTLE GOOSE	2035	2043	41	41	.05887	R	41
LOOKOUT POINT-DEXTER	2035	2043	6	6	.05887	R	6
MCNARY	2035	2043	60	60	.05887	R	60
TOTAL							----- 170,807
2036							
YAKIMA-CHANDLER	2036	2076	480	480	.06184	R	480
YAKIMA-CHANDLER	2036	2056	90	90	.06062	R	90
LIBBY	2036	2056	676	676	.06062	R	676
ICE HARBOR	2036	2056	198	198	.06062	R	198
LIBBY	2036	2051	1,924	1,924	.06002	R	1,924
YAKIMA-CHANDLER	2036	2046	60	60	.05941	R	60
LIBBY	2036	2046	70	70	.05941	R	70
COUGAR	2036	2044	3	3	.05887	R	3
DWORSHAK	2036	2043	17	17	.05860	R	17
THE DALLES	2036	2043	48	48	.05860	R	48
BONNEVILLE	2036	2041	65,593	65,593	.05797	R	65,593
TOTAL							----- 69,159
2037							
MINIDOKA	2037	2067	71	71	.06184	R	71
LOST CREEK	2037	2067	166	166	.06184	R	166
COLUMBIA BASIN	2037	2067	2,126	2,126	.06184	R	2,126
MINIDOKA	2037	2077	1,667	1,667	.06184	R	1,667
MINIDOKA	2037	2077	6,426	6,426	.06184	R	6,426
CHIEF JOSEPH	2037	2077	28,059	28,059	.06184	R	28,059
COLUMBIA BASIN	2037	2082	47,020	47,020	.06184	R	47,020
ICE HARBOR	2037	2062	1,606	1,606	.06123	R	1,606
HILLS CREEK	2037	2062	1	1	.06123	R	1
LOST CREEK	2037	2057	38	38	.06062	R	38
MINIDOKA	2037	2057	95	95	.06062	R	95
MINIDOKA	2037	2057	283	283	.06062	R	283
CHIEF JOSEPH	2037	2057	2,213	2,213	.06062	R	2,213
COLUMBIA BASIN	2037	2052	858	858	.06002	R	858
MINIDOKA	2037	2052	87	87	.06002	R	87
LOST CREEK	2037	2049	5	5	.05966	R	5
BONNEVILLE	2037	2049	148	148	.05966	R	148
GREEN PETER-FOSTER	2037	2047	22	22	.05941	R	22
MINIDOKA	2037	2047	16	16	.05941	R	16

APPLICATION OF AMORTIZATION

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
CHIEF JOSEPH	2037	2047	42	42	.05941	R	42
DWORSHAK	2037	2045	38	38	.05887	R	38
BONNEVILLE	2037	2045	4,071	4,071	.05887	R	4,071
GREEN PETER-FOSTER	2037	2044	17	17	.05860	R	17
ICE HARBOR	2037	2042	13,840	13,840	.05797	R	13,840
TOTAL							108,915
2038 COLUMBIA BASIN	2038	2068	2,386	2,386	.06184	R	2,386
YAKIMA-ROZA	2038	2078	127	127	.06184	R	127
LOWER GRANITE	2038	2058	317	317	.06062	R	317
LITTLE GOOSE	2038	2058	197	197	.06062	R	197
YAKIMA-ROZA	2038	2058	8	8	.06062	R	8
COLUMBIA BASIN	2038	2058	5,578	5,578	.06062	R	5,578
CHIEF JOSEPH	2038	2058	719	719	.06062	R	719
LOWER GRANITE	2038	2053	317	317	.06002	R	317
COLUMBIA BASIN	2038	2053	1,161	1,161	.06002	R	1,161
CHIEF JOSEPH	2038	2053	205	205	.06002	R	205
DETROIT-BIG CLIFF	2038	2050	24	24	.05966	R	24
LITTLE GOOSE	2038	2048	1,055	1,055	.05941	R	1,055
DETROIT-BIG CLIFF	2038	2045	2	2	.05860	R	2
LOWER GRANITE	2038	2045	24	24	.05860	R	24
LOWER SNAKE F AND W	2038	2043	49	49	.05797	R	49
TOTAL							12,169
2039 LOWER MONUMENTAL	2039	2074	10,444	10,444	.06184	R	10,444
THE DALLES	2039	2079	44,976	44,976	.06184	R	44,976
COUGAR	2039	2064	136	136	.06123	R	136
LOWER MONUMENTAL	2039	2059	314	314	.06062	R	314
THE DALLES	2039	2059	1,267	1,267	.06062	R	1,267
COUGAR	2039	2054	44	44	.06002	R	44
LOOKOUT POINT-DEXTER	2039	2051	40	40	.05966	R	40
MCNARY	2039	2051	29,075	29,075	.05966	R	29,075
ALBENI FALLS	2039	2051	134	134	.05966	R	134
THE DALLES	2039	2049	1	1	.05941	R	1
LOWER MONUMENTAL	2039	2049	12	12	.05941	R	12
THE DALLES	2039	2047	72	72	.05887	R	72
LOWER GRANITE	2039	2047	33	33	.05887	R	33
GREEN PETER-FOSTER	2039	2047	14	14	.05887	R	14
LOWER SNAKE F AND W	2039	2047	110	110	.05887	R	110

APPLICATION OF AMORTIZATION

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	LOOKOUT POINT-DEXTER	2039	2046	15	15	.05860	R	15
	LIBBY	2039	2046	70	70	.05860	R	70
	ICE HARBOR	2039	2046	26,168	26,168	.05860	R	26,168
	LOWER MONUMENTAL	2039	2046	23	23	.05860	R	23
	MCNARY	2039	2046	29	29	.05860	R	29
	BONNEVILLE	2039	2046	27,912	27,912	.05860	R	27,912
	LOWER SNAKE F AND W	2039	2046	578	578	.05860	R	578
	THE DALLES	2039	2044	44	44	.05797	R	44
	TOTAL							141,511
2040	JOHN DAY	2040	2075	548	548	.06184	R	548
	JOHN DAY	2040	2047	28	28	.05860	R	28
	TOTAL							576
2041	LITTLE GOOSE	2041	2076	12,744	12,744	.06184	R	12,744
	DETROIT-BIG CLIFF	2041	2091	573	573	.06184	R	573
	BONNEVILLE	2041	2091	21,870	21,870	.06184	R	21,870
	BONNEVILLE	2041	2066	2,632	2,632	.06123	R	2,632
	BONNEVILLE	2041	2061	630	630	.06062	R	630
	LOWER MONUMENTAL	2041	2053	2,326	2,326	.05966	R	2,326
	BONNEVILLE	2041	2051	114	114	.05941	R	114
	LITTLE GOOSE	2041	2051	12	12	.05941	R	12
	LOST CREEK	2041	2049	1	1	.05887	R	1
	LOWER MONUMENTAL	2041	2049	45	45	.05887	R	45
	LITTLE GOOSE	2041	2048	23	23	.05860	R	23
	COUGAR	2041	2048	2	2	.05860	R	2
	BONNEVILLE	2041	2046	65,593	65,593	.05797	R	65,593
	TOTAL							106,565
2042	ICE HARBOR	2042	2082	11,749	11,749	.06184	R	11,749
	HILLS CREEK	2042	2082	1,789	1,789	.06184	R	1,789
	MINIDOKA	2042	2067	1,996	1,996	.06123	R	1,996
	GREEN PETER-FOSTER	2042	2067	136	136	.06123	R	136
	ICE HARBOR	2042	2062	1,472	1,472	.06062	R	1,472
	BONNEVILLE	2042	2057	1,127	1,127	.06002	R	1,127
	JOHN DAY	2042	2054	44	44	.05966	R	44
	ICE HARBOR	2042	2052	13,491	13,491	.05941	R	13,491
	ICE HARBOR	2042	2050	7,094	7,094	.05887	R	7,094
	JOHN DAY	2042	2050	5	5	.05887	R	5

APPLICATION OF AMORTIZATION

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
DETROIT-BIG CLIFF	2042	2050	5	5	.05887	R	5
ICE HARBOR	2042	2047	13,840	13,840	.05797	R	13,840
TOTAL							52,748
2043							
LOWER SNAKE F AND W	2043	2073	2,246	2,246	.06184	R	2,246
HUNGRY HORSE	2043	2073	481	481	.06184	R	481
THE DALLES	2043	2078	15,878	15,878	.06184	R	15,878
DWORSHAK	2043	2078	12,573	12,573	.06184	R	12,573
HUNGRY HORSE	2043	2088	6,843	6,843	.06184	R	6,843
GREEN PETER-FOSTER	2043	2068	70	70	.06123	R	70
LOWER SNAKE F AND W	2043	2063	5,288	5,288	.06062	R	5,288
HUNGRY HORSE	2043	2058	477	477	.06002	R	477
LOWER SNAKE F AND W	2043	2058	1,137	1,137	.06002	R	1,137
LOWER SNAKE F AND W	2043	2055	528	528	.05966	R	528
LITTLE GOOSE	2043	2055	2,326	2,326	.05966	R	2,326
THE DALLES	2043	2055	9	9	.05966	R	9
LOWER SNAKE F AND W	2043	2053	1,053	1,053	.05941	R	1,053
DWORSHAK	2043	2053	186	186	.05941	R	186
LITTLE GOOSE	2043	2051	41	41	.05887	R	41
MCNARY	2043	2051	60	60	.05887	R	60
LOOKOUT POINT-DEXTER	2043	2051	6	6	.05887	R	6
DWORSHAK	2043	2050	17	17	.05860	R	17
THE DALLES	2043	2050	48	48	.05860	R	48
LOWER SNAKE F AND W	2043	2048	49	49	.05797	R	49
TOTAL							49,316
2044							
DETROIT-BIG CLIFF	2044	2074	629	629	.06184	R	629
COUGAR	2044	2084	1,541	1,541	.06184	R	1,541
DETROIT-BIG CLIFF	2044	2089	4,971	4,971	.06184	R	4,971
LOWER MONUMENTAL	2044	2069	865	865	.06123	R	865
COUGAR	2044	2064	72	72	.06062	R	72
DETROIT-BIG CLIFF	2044	2059	23,842	23,842	.06002	R	23,842
DETROIT-BIG CLIFF	2044	2059	17	17	.06002	R	17
LOWER MONUMENTAL	2044	2059	29,889	29,889	.06002	R	29,889
DETROIT-BIG CLIFF	2044	2054	33	33	.05941	R	33
COUGAR	2044	2052	3	3	.05887	R	3
GREEN PETER-FOSTER	2044	2051	17	17	.05860	R	17
THE DALLES	2044	2049	44	44	.05797	R	44
TOTAL							61,923

APPLICATION OF AMORTIZATION

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2045	LOWER GRANITE	2045	2080	8,584	8,584	.06184	R	8,584
	LOOKOUT POINT-DEXTER	2045	2090	2,353	2,353	.06184	R	2,353
	LOOKOUT POINT-DEXTER	2045	2090	5,661	5,661	.06184	R	5,661
	JOHN DAY	2045	2070	658	658	.06123	R	658
	LOOKOUT POINT-DEXTER	2045	2060	441	441	.06002	R	441
	MCNARY	2045	2060	21,516	21,516	.06002	R	21,516
	LIBBY	2045	2060	211	211	.06002	R	211
	JOHN DAY	2045	2060	160	160	.06002	R	160
	JOHN DAY	2045	2060	2,019	2,019	.06002	R	2,019
	ALBENI FALLS	2045	2060	59	59	.06002	R	59
	THE DALLES	2045	2057	1,756	1,756	.05966	R	1,756
	DWORSHAK	2045	2057	55	55	.05966	R	55
	LOWER GRANITE	2045	2055	904	904	.05941	R	904
	LOOKOUT POINT-DEXTER	2045	2055	110	110	.05941	R	110
	ALBENI FALLS	2045	2055	1	1	.05941	R	1
	MCNARY	2045	2055	59,313	59,313	.05941	R	59,313
	BONNEVILLE	2045	2053	4,071	4,071	.05887	R	4,071
	DWORSHAK	2045	2053	38	38	.05887	R	38
	LOWER GRANITE	2045	2052	24	24	.05860	R	24
	DETROIT-BIG CLIFF	2045	2052	2	2	.05860	R	2
	TOTAL							----- 107,936
2046	YAKIMA-CHANDLER	2046	2076	62	62	.06184	R	62
	LIBBY	2046	2081	10,633	10,633	.06184	R	10,633
	ICE HARBOR	2046	2081	6,550	6,550	.06184	R	6,550
	BONNEVILLE	2046	2081	74,612	74,612	.06184	R	74,612
	YAKIMA-CHANDLER	2046	2091	785	785	.06184	R	785
	LITTLE GOOSE	2046	2071	991	991	.06123	R	991
	LITTLE GOOSE	2046	2061	31,052	31,052	.06002	R	31,052
	YAKIMA-CHANDLER	2046	2061	26	26	.06002	R	26
	BONNEVILLE	2046	2061	2,616	2,616	.06002	R	2,616
	ICE HARBOR	2046	2058	4,885	4,885	.05966	R	4,885
	LIBBY	2046	2056	70	70	.05941	R	70
	YAKIMA-CHANDLER	2046	2056	60	60	.05941	R	60
	LIBBY	2046	2053	70	70	.05860	R	70
	ICE HARBOR	2046	2053	26,168	26,168	.05860	R	26,168
	MCNARY	2046	2053	29	29	.05860	R	29
	LOWER MONUMENTAL	2046	2053	23	23	.05860	R	23

APPLICATION OF AMORTIZATION

GENERATION FY 2002

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2048	YAKIMA-ROZA	2048	2078	5	5	.06184	R	5
	LOWER GRANITE	2048	2083	10,110	10,110	.06184	R	10,110
	LITTLE GOOSE	2048	2083	9,945	9,945	.06184	R	9,945
	COLUMBIA BASIN	2048	2083	55,730	55,730	.06184	R	55,730
	CHIEF JOSEPH	2048	2083	70,717	70,717	.06184	R	70,717
	GREEN PETER-FOSTER	2048	2088	17,081	17,081	.06184	R	17,081
	YAKIMA-ROZA	2048	2093	214	214	.06184	R	214
	DWORSHAK	2048	2073	7,478	7,478	.06123	R	7,478
	GREEN PETER-FOSTER	2048	2068	805	805	.06062	R	805
	YAKIMA-ROZA	2048	2063	2	2	.06002	R	2
	DWORSHAK	2048	2063	2,968	2,968	.06002	R	2,968
	THE DALLES	2048	2063	1,986	1,986	.06002	R	1,986
	LITTLE GOOSE	2048	2058	1,055	1,055	.05941	R	1,055
	COUGAR	2048	2055	2	2	.05860	R	2
	LITTLE GOOSE	2048	2055	23	23	.05860	R	23
	LOWER SNAKE F AND W	2048	2053	49	49	.05797	R	49
	TOTAL							178,170
2049	LOWER MONUMENTAL	2049	2084	9,606	9,606	.06184	R	9,606
	LOWER MONUMENTAL	2049	2089	10,700	10,700	.06184	R	10,700
	LOWER MONUMENTAL	2049	2069	30,587	30,587	.06062	R	30,587
	THE DALLES	2049	2064	1,287	1,287	.06002	R	1,287
	LOST CREEK	2049	2061	5	5	.05966	R	5
	BONNEVILLE	2049	2061	148	148	.05966	R	148
	THE DALLES	2049	2059	1	1	.05941	R	1
	LOWER MONUMENTAL	2049	2059	12	12	.05941	R	12
	LOST CREEK	2049	2057	1	1	.05887	R	1
	LOWER MONUMENTAL	2049	2057	45	45	.05887	R	45
	THE DALLES	2049	2054	44	44	.05797	R	44
	TOTAL							52,436
2050	JOHN DAY	2050	2090	46,918	46,918	.06184	R	46,918
	LOWER GRANITE	2050	2075	211	211	.06123	R	211
	JOHN DAY	2050	2070	2,019	2,019	.06062	R	2,019
	LOWER GRANITE	2050	2065	17,678	17,678	.06002	R	17,678
	DETROIT-BIG CLIFF	2050	2062	24	24	.05966	R	24
	JOHN DAY	2050	2058	5	5	.05887	R	5
	ICE HARBOR	2050	2058	7,094	7,094	.05887	R	7,094
	DETROIT-BIG CLIFF	2050	2058	5	5	.05887	R	5

CHAPTER 3

**REPAYMENT STUDY INPUT FILES
CURRENT STUDY
FY 2003**

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**The data in Computer File Form Used in
the FY 2003 Current Repayment Study
for Generation**

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1INPUT CARDS ONLY

N1 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL
N2 OCTOBER 1,2002 - SEPTEMBER 30,2003 COST EVALUATION PERIOD
N3 REPAY 03 GI00 - GENERATION, 2002 FINAL RATE PROPOSAL
N0 GENERATION

11999 0 0 770437 200320532053
OHISTORICAL YEAR: 1999
HISTORICAL CUMULATIVE REVENUES: 0
HISTORICAL CUMULATIVE PURCHASE & EXCHANGE: 0
HISTORICAL CUMULATIVE IRRIGATION INVESTMENT: 770437
YEAR OF THE RATE CHANGE: 2003
LAST YEAR OF REPAYMENT PERIOD: 2053

INTEREST RATES OF INTEREST INCOME

1X06839 06827 06914 06931 06830

INTEREST RATES OF NEW DEFERRALS

1Y07500 07625 07500 07250 07125

OPERATING YEAR FACTORS

1F75000 75000 75000 75000 75000

PROJECTED REVENUE

22000	949360	977980	1008938	1033376	1033376	1033376	1033376	7069782
22007	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22014	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22021	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22028	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22035	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22042	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22049	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22056	1033376	1033376	1033376	1033376				4133504
	9216368	9244988	9275946	9300384	8267008	8267008	8267008	61838710 = TOTAL FOR 2

PROJECTED IRRIGATION ASSISTANCE

	NEW INVESTMENT	NEW INVESTMENT	NEW INVESTMENT	
32000	0	0	0	0
32003	0	0	0	0
32006	0	0	0	0
32009	0	6942	6566	13508
32012	3476	19793	37530	60799
32015	5107	5394	35253	45754
32018	51187	10902	21258	83347
32021	39207	39049	29080	107336
32024	41806	20037	33228	95071

32027	32228	33386	44797		110411
32030	29963	29963	44797		104723
32033	40424	40424	29207		110055
32036	28549	28708	29310		86567
32039	29311	33835	33836		96982
32042	34694	34695	32941		102330
32045	32941	33099	39725		105765
32048	39883	39883	23256		103022
32051	23415	24346	31316		79077
32054	31316	31316	24194		86826
32057	24352	36906	37068		98326
32060	34318				34318
	522177	468678	0		1524217 = TOTAL FOR 3

CAPITALIZED CONTRACTUAL OBLIGATIONS

42000	647803	641433	567253	607002	595031	542149	575913	4176584
42007	592412	604796	587274	585491	605065	627264	384546	3986848
42014	379091	375036	365132	288805	126988	328981	328986	2193019
42021	326047	326545	326768	313303	312411	311855	311855	2228784
42028	311855	311855	310855	310855	310855	310855	310855	2177985
42035	310855	310855	310855	310855	310855	310855	310855	2175985
42042	310855	310855	310855	310855	310855	310855	310855	2175985
42049	310855	310855	310855	310855	310855	0	0	1554275
	3189773	3192230	3089847	3038021	2882915	2742814	2533865	20669465 = TOTAL FOR 4

5	ALBE	ALBENI FALLS
5	BOIS	BOISE
5	BON2	BONNEVILLE - 2ND POWER HOUSE
5	BONN	BONNEVILLE
5	CHIE	CHIEF JOSEPH
5	COL3	COLUMBIA BASIN - 3RD PWR HOUSE
5	COLU	COLUMBIA BASIN
5	COUG	COUGAR
5	CRFB	COLUMBIA RIVER FISH MITIGATION
5	DETR	DETROIT-BIG CLIFF
5	DWOR	DWORSHAK
5	GREE	GREEN PETER-FOSTER
5	HILL	HILLS CREEK
5	HUNG	HUNGRY HORSE
5	ICEF	ICE HARBOR FISH BYPASS
5	ICEH	ICE HARBOR
5	JOHN	JOHN DAY
5	LIBB	LIBBY
5	LITF	LITTLE GOOSE FISH BYPASS
5	LITT	LITTLE GOOSE
5	LOGF	LOWER GRANITE FISH BYPASS
5	LOMF	LOWER MONUMENTAL FISH BYPASS
5	LOOK	LOOKOUT POINT-DEXTER
5	LOST	LOST CREEK
5	LOWG	LOWER GRANITE

5	LOWM	LOWER MONUMENTAL
5	LSFW	LOWER SNAKE F AND W
5	MCNA	MCNARY
5	MCNF	MCNARY FISH BYPASS
5	MINI	MINIDOKA
5	STRU	STRUBE
5	THED	THE DALLES
5	YAKC	YAKIMA-CHANDLER
5	YAKR	YAKIMA-ROZA
5	ZABF	BPA PROGRAM
5	ZACO	BPA CONSERVATION
5	ZADB	BUREAU DIRECT FUND
5	ZAFW	FISH, WILDLIFE & ENVIRONMENTAL
5	ZBPA	BONNEVILLE POWER ADMINISTRATION
5	ZIRR	IRRIGATION ASSISTANCE

HISTORICAL
O & M INTEREST

5	ALBEX	46124	28741	74865
5	BOISX	37894	1219	39113
5	BONNX	159278	404368	563646
5	CHIEX	157353	341762	499115
5	COLUX	439614	523602	963216
5	COUGX	8325	14094	22419
5	CRFBX	0	10685	10685
5	DETRX	28066	36358	64424
5	DWORX	86776	181080	267856
5	GREEX	25086	36298	61384
5	HILLX	7982	14445	22427
5	HUNGX	35067	51482	86549
5	ICEHX	68783	103828	172611
5	JOHNX	130461	272420	402881
5	LIBBX	54613	267605	322218
5	LITTX	64213	154450	218663
5	LOOKX	32943	44304	77247
5	LOSTX	14656	16439	31095
5	LOWGX	86708	208147	294855
5	LOWMX	64436	168805	233241
5	LSFWX	109509	108916	218425
5	MCNAX	167850	243309	411159
5	MINIX	79765	2794	82559
5	THEDX	124576	233403	357979
5	YAKCX	19378	2916	22294
5	YAKRX	9178	824	10002
5	ZBPAX	0	0	0
5	ZACOX	0	0	0
		2058634	3472294	5530928 = TOTAL FOR 5

PROJECTED O & M

0

0 = TOTAL FOR 6

61994ZABF

0

0

0 = TOTAL FOR 6

HISTORICAL FEDERAL INVESTMENTS

			ORIGINAL	CURRENT	INTEREST	DUE	INSERVICE	CALENDAR
	PROJECT		PRINCIPAL	PRINCIPAL	RATE	DATE	DATE	MONTH
6	1998	ALBE X	25494	16854	.06910	2005	1955	
6	1998	ALBE X	11	11	.06910	2005 R	1956	
6	1998	ALBE X	10	10	.06910	2005 R	1957	
6	1998	ALBE X	11	11	.06910	2005 R	1958	
6	1998	ALBE X	11	11	.06910	2005 R	1959	
6	1998	ALBE X	10	10	.06910	2005 R	1960	
6	1998	ALBE X	11	11	.06910	2005 R	1961	
6	1998	ALBE X	11	11	.06910	2005 R	1962	
6	1998	ALBE X	10	10	.06910	2005 R	1963	
6	1998	ALBE X	11	11	.06910	2005 R	1964	
6	1998	ALBE X	11	11	.06910	2005 R	1965	
6	1998	ALBE X	10	10	.06910	2005 R	1966	
6	1998	ALBE X	11	11	.06910	2005 R	1967	
6	1998	ALBE X	11	11	.06910	2005 R	1968	
6	1998	ALBE X	10	10	.06910	2005 R	1969	
6	1998	ALBE X	11	11	.06910	2005 R	1970	
6	1998	ALBE X	11	11	.06910	2005 R	1971	
6	1998	ALBE X	10	10	.06910	2005 R	1972	
6	1998	ALBE X	11	11	.06910	2005 R	1973	
6	1998	ALBE X	11	11	.06910	2005 R	1974	
6	1998	ALBE X	10	10	.06910	2005 R	1975	
6	1998	ALBE X	11	11	.06910	2005 R	1976	
6	1998	ALBE X	11	11	.06910	2005 R	1977	
6	1998	ALBE X	10	10	.06910	2005 R	1978	
6	1998	ALBE X	11	11	.06910	2005 R	1979	
6	1998	ALBE X	11	11	.06910	2005 R	1980	
6	1998	ALBE X	10	10	.06910	2005 R	1981	
6	1998	ALBE X	11	11	.06910	2005 R	1982	
6	1998	ALBE X	11	11	.06910	2005 R	1983	
6	1998	ALBE X	7	7	.06910	2005	1985	
6	1998	ALBE X	293	293	.06910	2005	1986	
6	1998	ALBE X	15	0	.08875	2005 R	1987	
6	1998	ALBE X	12	12	.06910	2005	1987	
6	1998	ALBE X	328	0	.08500	2005 R	1988	
6	1998	ALBE X	221	0	.09250	2005 R	1989	
6	1998	ALBE X	1287	0	.08875	2005	1990	
6	1998	ALBE X	43	0	.08750	2005 R	1991	
6	1998	ALBE X	111	0	.08750	2005	1991	
6	1998	ALBE X	7	0	.08500	2005 R	1992	
6	1998	ALBE X	106	0	.08500	2005	1992	
6	1998	ALBE X	714	0	.07875	2005 R	1993	
6	1998	ALBE X	295	0	.07875	2005	1993	
6	1998	ALBE X	61	0	.07125	2019 R	1994	
6	1998	ALBE X	173	0	.07125	2019	1994	
6	1998	ALBE X	17	17	.07090	2010	1995	
6	1998	ALBE X	51	0	.07890	2010	1995	
6	1998	ALBE X	443	443	.07150	2045	1995	

6	1998	ALBE	X	531	531	.07150	2045	1995
6	1998	ALBE	X	1105	1105	.07150	2045	1995
6	1998	ALBE	X	130	130	.07290	2016	1996
6	1998	ALBE	X	477	477	.07150	2047	1997
6	1998	BOIS	X	1249	0	.03000	1962	1912
6	1998	BOIS	X	285	0	.03000	1962	1912
6	1998	BOIS	X	832	0	.03000	1976	1926
6	1998	BOIS	X	190	0	.03000	1976	1926
6	1998	BOIS	X	416	0	.03000	2000	1950
6	1998	BOIS	X	95	0	.03000	2000	1950
6	1998	BOIS	X	1873	0	.03000	2001	1951
6	1998	BOIS	X	428	0	.03000	2001	1951
6	1998	BOIS	X	11	0	.03000	2001 R	1952
6	1998	BOIS	X	3	0	.03000	2001 R	1952
6	1998	BOIS	X	11	0	.03000	2001 R	1953
6	1998	BOIS	X	3	0	.03000	2001 R	1953
6	1998	BOIS	X	11	0	.03000	2001 R	1954
6	1998	BOIS	X	3	0	.03000	2001 R	1954
6	1998	BOIS	X	11	0	.03000	2001 R	1955
6	1998	BOIS	X	3	0	.03000	2001 R	1955
6	1998	BOIS	X	11	0	.03000	2001 R	1956
6	1998	BOIS	X	3	0	.03000	2001 R	1956
6	1998	BOIS	X	11	0	.03000	2001 R	1957
6	1998	BOIS	X	3	0	.03000	2001 R	1957
6	1998	BOIS	X	11	0	.03000	2001 R	1958
6	1998	BOIS	X	3	0	.03000	2001 R	1958
6	1998	BOIS	X	11	0	.03000	2001 R	1959
6	1998	BOIS	X	3	0	.03000	2001 R	1959
6	1998	BOIS	X	11	0	.03000	2001 R	1960
6	1998	BOIS	X	3	0	.03000	2001 R	1960
6	1998	BOIS	X	11	0	.03000	2001 R	1961
6	1998	BOIS	X	3	0	.03000	2001 R	1961
6	1998	BOIS	X	11	0	.03000	2001 R	1962
6	1998	BOIS	X	3	0	.03000	2001 R	1962
6	1998	BOIS	X	11	0	.03000	2001 R	1963
6	1998	BOIS	X	3	0	.03000	2001 R	1963
6	1998	BOIS	X	11	0	.03000	2001 R	1964
6	1998	BOIS	X	3	0	.03000	2001 R	1964
6	1998	BOIS	X	11	0	.03000	2001 R	1965
6	1998	BOIS	X	3	0	.03000	2001 R	1965
6	1998	BOIS	X	11	0	.03000	2001 R	1966
6	1998	BOIS	X	3	0	.03000	2001 R	1966
6	1998	BOIS	X	11	0	.03000	2001 R	1967
6	1998	BOIS	X	3	0	.03000	2001 R	1967
6	1998	BOIS	X	11	0	.03000	2001 R	1968
6	1998	BOIS	X	3	0	.03000	2001 R	1968
6	1998	BOIS	X	11	0	.03000	2001 R	1969
6	1998	BOIS	X	3	0	.03000	2001 R	1969
6	1998	BOIS	X	11	0	.03000	2001 R	1970
6	1998	BOIS	X	3	0	.03000	2001 R	1970
6	1998	BOIS	X	11	0	.03000	2001 R	1971
6	1998	BOIS	X	3	0	.03000	2001 R	1971
6	1998	BOIS	X	11	0	.03000	2001 R	1972

6	1998	BOIS X	3	0	.03000	2001 R	1972
6	1998	BOIS X	11	0	.03000	2001 R	1973
6	1998	BOIS X	3	0	.03000	2001 R	1973
6	1998	BOIS X	11	0	.03000	2001 R	1974
6	1998	BOIS X	3	0	.03000	2001 R	1974
6	1998	BOIS X	11	0	.03000	2001 R	1975
6	1998	BOIS X	3	0	.03000	2001 R	1975
6	1998	BOIS X	11	0	.03000	2001 R	1976
6	1998	BOIS X	3	0	.03000	2001 R	1976
6	1998	BOIS X	11	0	.03000	2001 R	1977
6	1998	BOIS X	3	0	.03000	2001 R	1977
6	1998	BOIS X	11	0	.03000	2001 R	1978
6	1998	BOIS X	3	0	.03000	2001 R	1978
6	1998	BOIS X	11	0	.03000	2001 R	1979
6	1998	BOIS X	3	0	.03000	2001 R	1979
6	1998	BOIS X	18	0	.03000	2001 R	1980
6	1998	BOIS X	4	0	.03000	2001 R	1980
6	1998	BOIS X	8	0	.03000	2001 R	1981
6	1998	BOIS X	2	0	.03000	2001 R	1981
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1325	0	.10750	2001 R	1984
6	1998	BOIS X	303	0	.10750	2001 R	1984
6	1998	BOIS X	94	89	.06710	2001	1986
6	1998	BOIS X	3	0	.08500	2001	1988
6	1998	BOIS X	3264	0	.09250	2001 R	1989
6	1998	BOIS X	38	0	.08875	2001 R	1990
6	1998	BOIS X	50	0	.08750	2001 R	1991
6	1998	BOIS X	418	0	.07875	2001	1993
6	1998	BOIS X	7	0	.07125	1999 R	1994
6	1998	BOIS X	450	450	.07150	2046	1996
6	1998	BOIS X	7	7	.06950	2006	1996
6	1998	BOIS X	656	656	.07150	2046	1996
6	1998	BOIS X	9	9	.06950	2007	1997
6	1998	BOIS X	2284	2284	.07150	2047	1997
6	1998	BON2 X	40964	40964	.07150	2031 A	1981
6	1998	BON2 X	455	455	.07150	2031 A	1981
6	1998	BON2 X	203535	203535	.07150	2032 A	1982
6	1998	BON2 X	2264	2264	.07150	2032 A	1982
6	1998	BON2 X	62409	62409	.07150	2033 A	1983
6	1998	BON2 X	694	694	.07150	2033 A	1983
6	1998	BON2 X	9138	9138	.07150	2033 A	1985
6	1998	BON2 X	30578	30578	.07150	2033 A	1986
6	1998	BON2 X	2801	2801	.07150	2033 A	1987
6	1998	BON2 X	1271	1271	.07150	2033 A	1988
6	1998	BON2 X	1232	1232	.07150	2033 A	1989
6	1998	BON2 X	1588	1588	.07150	2033 A	1990
6	1998	BON2 X	3998	0	.08750	2033 A	1991
6	1998	BON2 X	26	0	.08750	2033 R	1991
6	1998	BON2 X	2446	0	.08500	2033 A	1992
6	1998	BON2 X	3668	0	.07875	2033 A	1993

6	1998	BON2	X	5700	5700	.07150	2044	A	1994
6	1998	BON2	X	3791	3791	.07150	2045		1995
6	1998	BON2	X	376	376	.07150	2046		1996
6	1998	BONN	X	11726	0	.02500	1988		1938
6	1998	BONN	X	130	0	.02500	1988		1938
6	1998	BONN	X	17589	0	.02500	1991		1941
6	1998	BONN	X	196	0	.02500	1991		1941
6	1998	BONN	X	5863	0	.02500	1992		1942
6	1998	BONN	X	65	0	.02500	1992		1942
6	1998	BONN	X	17589	0	.02500	1993		1943
6	1998	BONN	X	196	0	.02500	1993		1943
6	1998	BONN	X	5860	0	.02500	1994		1944
6	1998	BONN	X	65	0	.02500	1994		1944
6	1998	BONN	X	82	0	.02500	1994	R	1945
6	1998	BONN	X	1	0	.02500	1994	R	1945
6	1998	BONN	X	81	0	.02500	1994	R	1946
6	1998	BONN	X	1	0	.02500	1994	R	1946
6	1998	BONN	X	82	0	.02500	1994	R	1947
6	1998	BONN	X	1	0	.02500	1994	R	1947
6	1998	BONN	X	81	0	.02500	1994	R	1948
6	1998	BONN	X	1	0	.02500	1994	R	1948
6	1998	BONN	X	82	0	.02500	1994	R	1949
6	1998	BONN	X	1	0	.02500	1994	R	1949
6	1998	BONN	X	81	0	.02500	1994	R	1950
6	1998	BONN	X	11	0	.02500	1994	R	1950
6	1998	BONN	X	81	0	.02500	1994	R	1951
6	1998	BONN	X	11	0	.02500	1994	R	1951
6	1998	BONN	X	82	0	.02500	1994	R	1952
6	1998	BONN	X	1	0	.02500	1994	R	1952
6	1998	BONN	X	81	0	.02500	1994	R	1953
6	1998	BONN	X	1	0	.02500	1994	R	1953
6	1998	BONN	X	82	0	.02500	1994	R	1954
6	1998	BONN	X	1	0	.02500	1994	R	1954
6	1998	BONN	X	81	0	.02500	1994	R	1955
6	1998	BONN	X	1	0	.02500	1994	R	1955
6	1998	BONN	X	81	0	.02500	1994	R	1956
6	1998	BONN	X	1	0	.02500	1994	R	1956
6	1998	BONN	X	82	0	.02500	1994	R	1957
6	1998	BONN	X	1	0	.02500	1994	R	1957
6	1998	BONN	X	81	0	.02500	1994	R	1958
6	1998	BONN	X	1	0	.02500	1994	R	1958
6	1998	BONN	X	82	0	.02500	1994	R	1959
6	1998	BONN	X	1	0	.02500	1994	R	1959
6	1998	BONN	X	81	0	.02500	1994	R	1960
6	1998	BONN	X	1	0	.02500	1994	R	1960
6	1998	BONN	X	81	0	.02500	1994	R	1961
6	1998	BONN	X	1	0	.02500	1994	R	1961
6	1998	BONN	X	82	0	.02500	1994	R	1962
6	1998	BONN	X	1	0	.02500	1994	R	1962
6	1998	BONN	X	81	0	.02500	1994	R	1963
6	1998	BONN	X	1	0	.02500	1994	R	1963
6	1998	BONN	X	82	0	.02500	1994	R	1964
6	1998	BONN	X	1	0	.02500	1994	R	1964

6	1998	BONN	X	81	0	.02500	1994	R	1965
6	1998	BONN	X	1	0	.02500	1994	R	1965
6	1998	BONN	X	81	0	.02500	1994	R	1966
6	1998	BONN	X	1	0	.02500	1994	R	1966
6	1998	BONN	X	82	0	.02500	1994	R	1967
6	1998	BONN	X	1	0	.02500	1994	R	1967
6	1998	BONN	X	81	0	.02500	1994	R	1968
6	1998	BONN	X	1	0	.02500	1994	R	1968
6	1998	BONN	X	82	0	.02500	1994	R	1969
6	1998	BONN	X	1	0	.02500	1994	R	1969
6	1998	BONN	X	81	0	.02500	1994	R	1970
6	1998	BONN	X	1	0	.02500	1994	R	1970
6	1998	BONN	X	81	0	.02500	1994	R	1971
6	1998	BONN	X	1	0	.02500	1994	R	1971
6	1998	BONN	X	82	0	.02500	1994	R	1972
6	1998	BONN	X	1	0	.02500	1994	R	1972
6	1998	BONN	X	81	0	.02500	1994	R	1973
6	1998	BONN	X	1	0	.02500	1994	R	1973
6	1998	BONN	X	82	0	.02500	1994	R	1974
6	1998	BONN	X	1	0	.02500	1994	R	1974
6	1998	BONN	X	81	0	.02500	1994	R	1975
6	1998	BONN	X	1	0	.02500	1994	R	1975
6	1998	BONN	X	81	0	.02500	1994	R	1976
6	1998	BONN	X	1	0	.02500	1994	R	1976
6	1998	BONN	X	15670	15670	.07150	2027	B	1977
6	1998	BONN	X	82	0	.02500	1994	R	1977
6	1998	BONN	X	1	0	.02500	1994	R	1977
6	1998	BONN	X	81	0	.02500	1994	R	1978
6	1998	BONN	X	1	0	.02500	1994	R	1978
6	1998	BONN	X	82	0	.02500	1994	R	1979
6	1998	BONN	X	1	0	.02500	1994	R	1979
6	1998	BONN	X	81	0	.02500	1994	R	1980
6	1998	BONN	X	1	0	.02500	1994	R	1980
6	1998	BONN	X	81	0	.02500	1994	R	1981
6	1998	BONN	X	1	0	.02500	1994	R	1981
6	1998	BONN	X	82	0	.02500	1994	R	1982
6	1998	BONN	X	2	0	.02500	1994	R	1982
6	1998	BONN	X	81	0	.02500	1994	R	1983
6	1998	BONN	X	1	0	.02500	1994	R	1983
6	1998	BONN	X	873	0	.10750	1994	R	1984
6	1998	BONN	X	10	0	.10750	1994	R	1984
6	1998	BONN	X	119	0	.02500	1994	R	1985
6	1998	BONN	X	454	0	.11375	1994	R	1986
6	1998	BONN	X	555	0	.02500	1994	R	1986
6	1998	BONN	X	26	0	.08875	1994	R	1987
6	1998	BONN	X	260	0	.02500	1994	R	1987
6	1998	BONN	X	4199	0	.08500	1994	R	1988
6	1998	BONN	X	10	0	.08500	1994	R	1988
6	1998	BONN	X	877	0	.09250	1994	R	1989
6	1998	BONN	X	519	0	.08875	1994	R	1990
6	1998	BONN	X	651	0	.08875	1994	A	1990
6	1998	BONN	X	35	0	.08750	1994	R	1991
6	1998	BONN	X	3193	0	.08750	1994	R	1991

6	1998	BONN	X	99	0	.08500	1994	R	1992
6	1998	BONN	X	25	0	.08500	1994		1992
6	1998	BONN	X	5011	0	.07875	2018		1993
6	1998	BONN	X	536	0	.07125	2029	A	1994
6	1998	BONN	X	8	0	.07330	2000		1995
6	1998	BONN	X	20	20	.07250	2020		1995
6	1998	BONN	X	22	22	.07250	2020	R	1995
6	1998	BONN	X	25	25	.07090	2010	R	1995
6	1998	BONN	X	53	0	.07860	2030		1995
6	1998	BONN	X	98	0	.07860	2035		1995
6	1998	BONN	X	327	243	.07150	2045		1995
6	1998	BONN	X	410	410	.07150	2045	R	1995
6	1998	BONN	X	374	0	.07860	2045	R	1995
6	1998	BONN	X	440	440	.07150	2045	R	1995
6	1998	BONN	X	18	18	.07150	2046		1996
6	1998	BONN	X	18	18	.07150	2046		1996
6	1998	BONN	X	22	22	.07150	2031		1996
6	1998	BONN	X	80	80	.07150	2046		1996
6	1998	BONN	X	109	109	.07150	2046		1996
6	1998	BONN	X	142	142	.07150	2046		1996
6	1998	BONN	X	223	223	.07150	2046		1996
6	1998	BONN	X	751	751	.07150	2046		1996
6	1998	BONN	X	834	834	.07290	2016	R	1996
6	1998	BONN	X	1322	1322	.07150	2046	R	1996
6	1998	BONN	X	122	122	.07230	2022		1997
6	1998	BONN	X	518	518	.07150	2032		1997
6	1998	BONN	X	161	161	.07150	2047		1997
6	1999	BONN	X	29984	29984	.05325	2044		1999
6	1998	CHIE	X	28313	2262	.06910	2005		1955
6	1998	CHIE	X	13643	13643	.06950	2006		1956
6	1998	CHIE	X	39586	39586	.06980	2007		1957
6	1998	CHIE	X	31901	31901	.07020	2008		1958
6	1998	CHIE	X	223	223	.07020	2008	R	1959
6	1998	CHIE	X	223	223	.07020	2008	R	1960
6	1998	CHIE	X	223	223	.07020	2008	R	1961
6	1998	CHIE	X	223	223	.07020	2008	R	1962
6	1998	CHIE	X	224	224	.07020	2008	R	1963
6	1998	CHIE	X	223	223	.07020	2008	R	1964
6	1998	CHIE	X	223	223	.07020	2008	R	1965
6	1998	CHIE	X	223	223	.07020	2008	R	1966
6	1998	CHIE	X	223	223	.07020	2008	R	1967
6	1998	CHIE	X	224	224	.07020	2008	R	1968
6	1998	CHIE	X	223	223	.07020	2008	R	1969
6	1998	CHIE	X	223	223	.07020	2008	R	1970
6	1998	CHIE	X	223	223	.07020	2008	R	1971
6	1998	CHIE	X	223	223	.07020	2008	R	1972
6	1998	CHIE	X	224	224	.07020	2008	R	1973
6	1998	CHIE	X	223	223	.07020	2008	R	1974
6	1998	CHIE	X	223	223	.07020	2008	R	1975
6	1998	CHIE	X	223	223	.07020	2008	R	1976
6	1998	CHIE	X	30512	30512	.07150	2027	A	1977
6	1998	CHIE	X	223	223	.07020	2008	R	1977
6	1998	CHIE	X	75669	75669	.07150	2028	A	1978

6	1998	CHIE X	224	224	.07020	2008 R	1978
6	1998	CHIE X	60079	60079	.07150	2029 A	1979
6	1998	CHIE X	223	223	.07020	2008 R	1979
6	1998	CHIE X	223	223	.07020	2008 R	1980
6	1998	CHIE X	223	223	.07020	2008 R	1981
6	1998	CHIE X	223	223	.07020	2008 R	1982
6	1998	CHIE X	224	224	.07020	2008 R	1983
6	1998	CHIE X	909	0	.10750	2008 R	1984
6	1998	CHIE X	16372	16372	.07150	2029 A	1985
6	1998	CHIE X	46	46	.07020	2008	1985
6	1998	CHIE X	5363	5363	.07150	2029 A	1986
6	1998	CHIE X	104	0	.08875	2008 R	1987
6	1998	CHIE X	3036	3036	.07150	2029 A	1987
6	1998	CHIE X	2722	2722	.07150	2029 A	1988
6	1998	CHIE X	327	0	.09250	2008 R	1989
6	1998	CHIE X	2227	2227	.07150	2029 A	1989
6	1998	CHIE X	4505	4505	.07150	2029	1990
6	1998	CHIE X	1024	0	.08875	2008 A	1990
6	1998	CHIE X	3840	0	.08750	2029 A	1991
6	1998	CHIE X	34	0	.08750	2008 R	1991
6	1998	CHIE X	293	0	.08750	2008	1991
6	1998	CHIE X	2032	0	.08500	2029 A	1992
6	1998	CHIE X	142	0	.08500	2008 R	1992
6	1998	CHIE X	717	0	.08500	2008	1992
6	1998	CHIE X	42	0	.07875	2008 R	1993
6	1998	CHIE X	794	0	.07875	2008	1993
6	1998	CHIE X	1360	0	.07875	2029 A	1993
6	1998	CHIE X	129	0	.07125	2029	1994
6	1998	CHIE X	65	0	.07125	2029 R	1994
6	1998	CHIE X	4280	4017	.07150	2044 A	1994
6	1998	CHIE X	15	15	.07090	2010	1995
6	1998	CHIE X	147	147	.07150	2045	1995
6	1998	CHIE X	562	562	.07150	2045	1995
6	1998	CHIE X	712	712	.07150	2045 R	1995
6	1998	CHIE X	784	784	.07150	2045	1995
6	1998	CHIE X	3	3	.07150	2046 R	1996
6	1998	CHIE X	4	4	.07150	2046 R	1996
6	1998	CHIE X	27	27	.07150	2031 R	1996
6	1998	CHIE X	355	355	.07150	2046	1996
6	1998	CHIE X	729	729	.07150	2046	1996
6	1998	CHIE X	166	166	.07150	2032	1997
6	1998	CHIE X	657	657	.07150	2047	1997
6	1998	COL3 X	47328	36690	.07160	2025 A	1975
6	1998	COL3 X	8702	7435	.07160	2025 A	1975
6	1998	COL3 X	41330	41330	.07150	2026 A	1976
6	1998	COL3 X	8037	8037	.07150	2026 A	1976
6	1998	COL3 X	42764	42764	.07150	2027 A	1977
6	1998	COL3 X	7964	7964	.07150	2027 A	1977
6	1998	COL3 X	42399	42399	.07150	2028 A	1978
6	1998	COL3 X	7896	7896	.07150	2028 A	1978
6	1998	COL3 X	84118	84118	.07150	2029 A	1979
6	1998	COL3 X	15666	15666	.07150	2029 A	1979
6	1998	COL3 X	712	712	.07150	2033 B	1983

6	1998	COL3	X	13003	13003	.07150	2033	A	1983
6	1998	COL3	X	16965	16965	.07150	2033	A	1984
6	1998	COL3	X	13192	13192	.07150	2033	A	1984
6	1998	COL3	X	3160	3160	.07150	2033	A	1984
6	1998	COL3	X	41772	41772	.07150	2033	A	1985
6	1998	COL3	X	107	107	.07150	2033		1985
6	1998	COL3	X	2060	2060	.07150	2033		1985
6	1998	COL3	X	15538	15538	.07150	2033	A	1986
6	1998	COL3	X	1851	1851	.07150	2033	A	1986
6	1998	COL3	X	14439	14439	.07150	2033	A	1987
6	1998	COL3	X	1730	1730	.07150	2033	A	1987
6	1998	COL3	X	4351	4351	.07150	2033	A	1988
6	1998	COL3	X	2294	2294	.07150	2033	A	1988
6	1998	COL3	X	10902	10902	.07150	2033	A	1989
6	1998	COL3	X	6383	6383	.07150	2033	A	1990
6	1998	COL3	X	39	0	.08750	2033	A	1991
6	1998	COL3	X	1360	0	.08500	2033	A	1992
6	1998	COL3	X	12962	0	.07875	2033	A	1993
6	1998	COL3	X	12631	12631	.07150	2044	A	1994
6	1998	COLU	X	10919	0	.03000	1991		1941
6	1998	COLU	X	1505	0	.03000	1991		1941
6	1998	COLU	X	16165	0	.03000	1992		1942
6	1998	COLU	X	3011	0	.03000	1992		1942
6	1998	COLU	X	8083	0	.03000	1993		1943
6	1998	COLU	X	1505	0	.03000	1993		1943
6	1998	COLU	X	16165	0	.03000	1994		1944
6	1998	COLU	X	3011	0	.03000	1994		1944
6	1998	COLU	X	24247	0	.03000	1998		1948
6	1998	COLU	X	4516	0	.03000	1998		1948
6	1998	COLU	X	24247	0	.03000	1999		1949
6	1998	COLU	X	4516	0	.03000	1999		1949
6	1998	COLU	X	16165	0	.03000	2000		1950
6	1998	COLU	X	3011	0	.03000	2000		1950
6	1998	COLU	X	28255	7719	.06710	2001		1951
6	1998	COLU	X	5790	1437	.06710	2001		1951
6	1998	COLU	X	258	258	.06710	2001	R	1952
6	1998	COLU	X	48	48	.06710	2001	R	1952
6	1998	COLU	X	258	258	.06710	2001	R	1953
6	1998	COLU	X	48	48	.06710	2001	R	1953
6	1998	COLU	X	258	258	.06710	2001	R	1954
6	1998	COLU	X	48	48	.06710	2001	R	1954
6	1998	COLU	X	258	258	.06710	2001	R	1955
6	1998	COLU	X	48	48	.06710	2001	R	1955
6	1998	COLU	X	259	259	.06710	2001	R	1956
6	1998	COLU	X	48	48	.06710	2001	R	1956
6	1998	COLU	X	258	258	.06710	2001	R	1957
6	1998	COLU	X	48	48	.06710	2001	R	1957
6	1998	COLU	X	258	258	.06710	2001	R	1958
6	1998	COLU	X	48	48	.06710	2001	R	1958
6	1998	COLU	X	258	258	.06710	2001	R	1959
6	1998	COLU	X	48	48	.06710	2001	R	1959
6	1998	COLU	X	258	258	.06710	2001	R	1960
6	1998	COLU	X	48	48	.06710	2001	R	1960

6	1998	COLU X	259	259	.06710	2001 R	1961
6	1998	COLU X	48	48	.06710	2001 R	1961
6	1998	COLU X	258	258	.06710	2001 R	1962
6	1998	COLU X	48	48	.06710	2001 R	1962
6	1998	COLU X	258	258	.06710	2001 R	1963
6	1998	COLU X	48	48	.06710	2001 R	1963
6	1998	COLU X	258	258	.06710	2001 R	1964
6	1998	COLU X	48	48	.06710	2001 R	1964
6	1998	COLU X	258	258	.06710	2001 R	1965
6	1998	COLU X	48	48	.06710	2001 R	1965
6	1998	COLU X	259	258	.06710	2001 R	1966
6	1998	COLU X	48	48	.06710	2001 R	1966
6	1998	COLU X	258	258	.06710	2001 R	1967
6	1998	COLU X	758	758	.07290	2017 B	1967
6	1998	COLU X	48	48	.06710	2001 R	1967
6	1998	COLU X	258	258	.06710	2001 R	1968
6	1998	COLU X	48	48	.06710	2001 R	1968
6	1998	COLU X	258	258	.06710	2001 R	1969
6	1998	COLU X	48	48	.06710	2001 R	1969
6	1998	COLU X	258	258	.06710	2001 R	1970
6	1998	COLU X	48	48	.06710	2001 R	1970
6	1998	COLU X	259	259	.06710	2001 R	1971
6	1998	COLU X	48	48	.06710	2001 R	1971
6	1998	COLU X	258	258	.06710	2001 R	1972
6	1998	COLU X	48	48	.06710	2001 R	1972
6	1998	COLU X	258	258	.06710	2001 R	1973
6	1998	COLU X	48	48	.06710	2001 R	1973
6	1998	COLU X	258	258	.06710	2001 R	1974
6	1998	COLU X	48	48	.06710	2001 R	1974
6	1998	COLU X	258	258	.06710	2001 R	1975
6	1998	COLU X	48	48	.06710	2001 R	1975
6	1998	COLU X	259	259	.06710	2001 R	1976
6	1998	COLU X	48	48	.06710	2001 R	1976
6	1998	COLU X	258	258	.06710	2001 R	1977
6	1998	COLU X	48	48	.06710	2001 R	1977
6	1998	COLU X	258	258	.06710	2001 R	1978
6	1998	COLU X	48	48	.06710	2001 R	1978
6	1998	COLU X	258	258	.06710	2001 R	1979
6	1998	COLU X	48	48	.06710	2001 R	1979
6	1998	COLU X	258	258	.06710	2001 R	1980
6	1998	COLU X	48	48	.06710	2001 R	1980
6	1998	COLU X	259	259	.06710	2001 R	1981
6	1998	COLU X	48	48	.06710	2001 R	1981
6	1998	COLU X	258	258	.06710	2001 R	1982
6	1998	COLU X	48	48	.06710	2001 R	1982
6	1998	COLU X	258	258	.06710	2001 R	1983
6	1998	COLU X	48	48	.06710	2001 R	1983
6	1998	COLU X	7815	0	.10750	2001 R	1984
6	1998	COLU X	1455	0	.10750	2001 R	1984
6	1998	COLU X	7338	0	.12375	2001 R	1985
6	1998	COLU X	236	236	.06710	2001	1985
6	1998	COLU X	362	0	.12375	2001	1985
6	1998	COLU X	11	11	.06710	2001	1985

6	1998	COLU X	127	127	.06710	2001	1986
6	1998	COLU X	13	13	.06710	2001	1987
6	1998	COLU X	184	0	.08500	2001 R	1988
6	1998	COLU X	2	0	.08500	2001 R	1988
6	1998	COLU X	1166	0	.09250	2001 R	1989
6	1998	COLU X	928	0	.08875	2001 R	1990
6	1998	COLU X	177	0	.08750	2001	1991
6	1998	COLU X	1661	0	.08750	2001 R	1991
6	1998	COLU X	445	0	.08500	2001 R	1992
6	1998	COLU X	652	0	.08500	2001 R	1992
6	1998	COLU X	795	45	.06710	2001	1993
6	1998	COLU X	20	0	.07860	2030	1995
6	1998	COLU X	25	25	.07150	2030	1995
6	1998	COLU X	25	25	.06620	2000	1995
6	1998	COLU X	206	0	.07250	2020	1995
6	1998	COLU X	270	0	.07860	2030	1995
6	1998	COLU X	321	0	.07860	2030 R	1995
6	1998	COLU X	323	0	.07860	2030 R	1995
6	1998	COLU X	450	0	.07860	2045 R	1995
6	1998	COLU X	292	292	.07150	2045 R	1995
6	1998	COLU X	2511	2453	.07150	2045	1995
6	1998	COLU X	76	76	.07150	2026	1996
6	1998	COLU X	109	109	.07150	2031	1996
6	1998	COLU X	251	251	.07150	2031	1996
6	1998	COLU X	426	426	.07150	2046	1996
6	1998	COLU X	368	368	.07150	2046	1996
6	1998	COLU X	3393	3393	.07150	2047	1997
6	1998	COUG X	10414	9042	.07230	2014	1964
6	1998	COUG X	20	20	.07230	2014 R	1965
6	1998	COUG X	20	20	.07230	2014 R	1966
6	1998	COUG X	20	20	.07230	2014 R	1967
6	1998	COUG X	20	20	.07230	2014 R	1968
6	1998	COUG X	20	20	.07230	2014 R	1969
6	1998	COUG X	20	20	.07230	2014 R	1970
6	1998	COUG X	20	20	.07230	2014 R	1971
6	1998	COUG X	20	20	.07230	2014 R	1972
6	1998	COUG X	20	20	.07230	2014 R	1973
6	1998	COUG X	19	19	.07230	2014 R	1974
6	1998	COUG X	20	20	.07230	2014 R	1975
6	1998	COUG X	20	20	.07230	2014 R	1976
6	1998	COUG X	20	20	.07230	2014 R	1977
6	1998	COUG X	20	20	.07230	2014 R	1978
6	1998	COUG X	20	20	.07230	2014 R	1979
6	1998	COUG X	20	20	.07230	2014 R	1980
6	1998	COUG X	20	20	.07230	2014 R	1981
6	1998	COUG X	20	20	.07230	2014 R	1982
6	1998	COUG X	20	20	.07230	2014 R	1983
6	1998	COUG X	1	0	.10750	2014 R	1984
6	1998	COUG X	1	1	.07230	2014	1985
6	1998	COUG X	55	0	.11375	2014 R	1986
6	1998	COUG X	104	104	.07230	2014	1986
6	1998	COUG X	45	45	.07230	2014	1987
6	1998	COUG X	2	0	.08500	2014	1988

6	1998	COUG X	6	0	.09250	2014 R	1989
6	1998	COUG X	10	0	.08875	2014 R	1990
6	1998	COUG X	1015	0	.08750	2014 R	1991
6	1998	COUG X	1	0	.08750	2014	1991
6	1998	COUG X	2	0	.08500	2014 R	1992
6	1998	COUG X	539	0	.07875	2014	1993
6	1998	COUG X	31	0	.07125	2019 A	1994
6	1998	COUG X	3	0	.07330	2000	1995
6	1998	COUG X	26	26	.07150	2047	1997
6	1998	CRFB X	3969	0	.08500	2041	1991
6	1998	CRFB X	874	0	.08500	2042	1992
6	1998	CRFB X	85846	0	.08500	2043	1993
6	1998	CRFB X	39454	0	.08500	2044	1994
6	1998	CRFB X	43343	703	.07150	2045	1995
6	1998	CRFB X	42357	42357	.07150	2046	1996
6	1999	CRFB X	20689	20689	.05325	2049	1999
6	1998	DETR X	12533	3078	.06840	2003	1953
6	1998	DETR X	20162	20162	.06880	2004	1954
6	1998	DETR X	18	18	.06880	2004 R	1955
6	1998	DETR X	19	19	.06880	2004 R	1956
6	1998	DETR X	18	18	.06880	2004 R	1957
6	1998	DETR X	19	19	.06880	2004 R	1958
6	1998	DETR X	18	18	.06880	2004 R	1959
6	1998	DETR X	19	19	.06880	2004 R	1960
6	1998	DETR X	18	18	.06880	2004 R	1961
6	1998	DETR X	19	19	.06880	2004 R	1962
6	1998	DETR X	18	18	.06880	2004 R	1963
6	1998	DETR X	19	19	.06880	2004 R	1964
6	1998	DETR X	18	18	.06880	2004 R	1965
6	1998	DETR X	19	19	.06880	2004 R	1966
6	1998	DETR X	18	18	.06880	2004 R	1967
6	1998	DETR X	19	19	.06880	2004 R	1968
6	1998	DETR X	18	18	.06880	2004 R	1969
6	1998	DETR X	19	19	.06880	2004 R	1970
6	1998	DETR X	18	18	.06880	2004 R	1971
6	1998	DETR X	19	19	.06880	2004 R	1972
6	1998	DETR X	18	18	.06880	2004 R	1973
6	1998	DETR X	19	19	.06880	2004 R	1974
6	1998	DETR X	18	18	.06880	2004 R	1975
6	1998	DETR X	19	19	.06880	2004 R	1976
6	1998	DETR X	18	18	.06880	2004 R	1977
6	1998	DETR X	19	19	.06880	2004 R	1978
6	1998	DETR X	18	18	.06880	2004 R	1979
6	1998	DETR X	19	19	.06880	2004 R	1980
6	1998	DETR X	18	18	.06880	2004 R	1981
6	1998	DETR X	19	19	.06880	2004 R	1982
6	1998	DETR X	18	18	.06880	2004 R	1983
6	1998	DETR X	21	0	.10750	2004 R	1984
6	1998	DETR X	6	6	.06880	2004	1985
6	1998	DETR X	38	0	.11375	2004 R	1986
6	1998	DETR X	233	0	.08875	2004 R	1987
6	1998	DETR X	3	3	.06880	2004	1987
6	1998	DETR X	68	0	.08500	2004 R	1988

6	1998	DETR	X	26	0	.09250	2004	R	1989
6	1998	DETR	X	115	0	.08875	2004		1990
6	1998	DETR	X	9	0	.08750	2004	R	1991
6	1998	DETR	X	20	0	.08750	2004		1991
6	1998	DETR	X	8	0	.08500	2004		1992
6	1998	DETR	X	211	0	.07875	2004		1993
6	1998	DETR	X	7	0	.07125	1999	R	1994
6	1998	DETR	X	38	38	.07150	2045		1995
6	1998	DETR	X	13	0	.07330	2000		1995
6	1998	DETR	X	24	24	.06950	2006		1996
6	1998	DWOR	X	138443	132996	.07190	2023		1973
6	1998	DWOR	X	836	803	.07190	2023		1973
6	1998	DWOR	X	515	515	.07190	2023	R	1974
6	1998	DWOR	X	3	3	.07190	2023	R	1974
6	1998	DWOR	X	518	518	.07190	2023	R	1975
6	1998	DWOR	X	3	3	.07190	2023	R	1975
6	1998	DWOR	X	518	518	.07190	2023	R	1976
6	1998	DWOR	X	3	3	.07190	2023	R	1976
6	1998	DWOR	X	518	518	.07190	2023	R	1977
6	1998	DWOR	X	3	3	.07190	2023	R	1977
6	1998	DWOR	X	518	518	.07190	2023	R	1978
6	1998	DWOR	X	3	3	.07190	2023	R	1978
6	1998	DWOR	X	518	518	.07190	2023	R	1979
6	1998	DWOR	X	3	3	.07190	2023	R	1979
6	1998	DWOR	X	518	518	.07190	2023	R	1980
6	1998	DWOR	X	3	3	.07190	2023	R	1980
6	1998	DWOR	X	518	518	.07190	2023	R	1981
6	1998	DWOR	X	3	3	.07190	2023	R	1981
6	1998	DWOR	X	518	518	.07190	2023	R	1982
6	1998	DWOR	X	3	3	.07190	2023	R	1982
6	1998	DWOR	X	523	523	.07190	2023	R	1983
6	1998	DWOR	X	3	3	.07190	2023	R	1983
6	1998	DWOR	X	2499	0	.10750	2023	R	1984
6	1998	DWOR	X	15	0	.10750	2023	R	1984
6	1998	DWOR	X	1141	1141	.07190	2023		1985
6	1998	DWOR	X	197	197	.07190	2023		1986
6	1998	DWOR	X	65	0	.08875	2023	R	1987
6	1998	DWOR	X	30	5	.07190	2023		1987
6	1998	DWOR	X	61	0	.08500	2023	R	1988
6	1998	DWOR	X	63	0	.09250	2023	R	1989
6	1998	DWOR	X	245	0	.08875	2023	R	1990
6	1998	DWOR	X	24	0	.08875	2023		1990
6	1998	DWOR	X	224	0	.08750	2023		1991
6	1998	DWOR	X	4	0	.02625	2023		1992
6	1998	DWOR	X	28	0	.08500	2023	R	1992
6	1998	DWOR	X	24	0	.08500	2023		1992
6	1998	DWOR	X	41	0	.07875	2023	R	1993
6	1998	DWOR	X	1872	0	.07875	2023		1993
6	1998	DWOR	X	1351	0	.07125	2029	R	1994
6	1998	DWOR	X	964	0	.07125	2029	A	1994
6	1998	DWOR	X	55	0	.07930	2020		1995
6	1998	DWOR	X	218	218	.07150	2030		1995
6	1998	DWOR	X	1162	1162	.07150	2045		1995

6	1998	DWOR	X	3	3	.07150	2046	1996
6	1998	DWOR	X	4	4	.07150	2046	1996
6	1998	DWOR	X	6	6	.07150	2031	1996
6	1998	DWOR	X	26	26	.07230	2021	1996
6	1998	DWOR	X	46	46	.07150	2046	1996
6	1998	DWOR	X	107	107	.07130	2011	1996
6	1998	DWOR	X	184	184	.07230	2021	1996
6	1998	DWOR	X	203	203	.07150	2031	1996
6	1998	DWOR	X	7588	7588	.07150	2047	1997
6	1998	GREE	X	12892	11919	.07290	2017	1967
6	1998	GREE	X	12180	12180	.07280	2018	1968
6	1998	GREE	X	39	39	.07280	2018 R	1969
6	1998	GREE	X	40	40	.07280	2018 R	1970
6	1998	GREE	X	39	39	.07280	2018 R	1971
6	1998	GREE	X	39	39	.07280	2018 R	1972
6	1998	GREE	X	39	39	.07280	2018 R	1973
6	1998	GREE	X	39	39	.07280	2018 R	1974
6	1998	GREE	X	39	39	.07280	2018 R	1975
6	1998	GREE	X	39	39	.07280	2018 R	1976
6	1998	GREE	X	39	39	.07280	2018 R	1977
6	1998	GREE	X	39	39	.07280	2018 R	1978
6	1998	GREE	X	39	39	.07280	2018 R	1979
6	1998	GREE	X	40	40	.07280	2018 R	1980
6	1998	GREE	X	39	39	.07280	2018 R	1981
6	1998	GREE	X	39	39	.07280	2018 R	1982
6	1998	GREE	X	39	39	.07280	2018 R	1983
6	1998	GREE	X	15	0	.10750	2018 R	1984
6	1998	GREE	X	16	16	.07280	2018	1985
6	1998	GREE	X	3	0	.11375	2018 R	1986
6	1998	GREE	X	3	3	.07280	2018	1986
6	1998	GREE	X	2	0	.08875	2018 R	1987
6	1998	GREE	X	1	1	.07280	2018	1987
6	1998	GREE	X	13	0	.08500	2018	1988
6	1998	GREE	X	24	0	.09250	2018 R	1989
6	1998	GREE	X	5	0	.08875	2018	1990
6	1998	GREE	X	48	0	.08750	2018	1991
6	1998	GREE	X	2	0	.08500	2018	1992
6	1998	GREE	X	41	0	.07875	2018	1993
6	1998	GREE	X	6	0	.07125	1999 A	1994
6	1998	GREE	X	4	0	.07330	2000	1995
6	1998	GREE	X	11	11	.07250	2020	1995
6	1998	GREE	X	24	24	.07250	2020	1995
6	1998	GREE	X	26	26	.07150	2046	1996
6	1998	HILL	X	10353	9264	.07160	2012	1962
6	1998	HILL	X	12	12	.07160	2012 R	1963
6	1998	HILL	X	13	13	.07160	2012 R	1964
6	1998	HILL	X	13	13	.07160	2012 R	1965
6	1998	HILL	X	13	13	.07160	2012 R	1966
6	1998	HILL	X	13	13	.07160	2012 R	1967
6	1998	HILL	X	13	13	.07160	2012 R	1968
6	1998	HILL	X	13	13	.07160	2012 R	1969
6	1998	HILL	X	13	13	.07160	2012 R	1970
6	1998	HILL	X	13	13	.07160	2012 R	1971

6	1998	HILL X	13	13	.07160	2012 R	1972
6	1998	HILL X	13	13	.07160	2012 R	1973
6	1998	HILL X	13	13	.07160	2012 R	1974
6	1998	HILL X	13	13	.07160	2012 R	1975
6	1998	HILL X	13	13	.07160	2012 R	1976
6	1998	HILL X	13	13	.07160	2012 R	1977
6	1998	HILL X	13	13	.07160	2012 R	1978
6	1998	HILL X	13	13	.07160	2012 R	1979
6	1998	HILL X	13	13	.07160	2012 R	1980
6	1998	HILL X	13	13	.07160	2012 R	1981
6	1998	HILL X	13	13	.07160	2012 R	1982
6	1998	HILL X	13	13	.07160	2012 R	1983
6	1998	HILL X	52	0	.10750	2012 R	1984
6	1998	HILL X	6	6	.07160	2012	1985
6	1998	HILL X	3	0	.08875	2012 R	1987
6	1998	HILL X	3	0	.08500	2012 R	1988
6	1998	HILL X	3	0	.08875	2012	1990
6	1998	HILL X	17	0	.08750	2012	1991
6	1998	HILL X	1	0	.08500	2012	1992
6	1998	HILL X	13	0	.07875	2012	1993
6	1998	HILL X	28	28	.07150	2046	1996
6	1998	HUNG X	71160	16359	.06840	2003	1953
6	1998	HUNG X	2126	490	.06840	2003	1953
6	1998	HUNG X	17	17	.06840	2003 R	1954
6	1998	HUNG X	1	1	.06840	2003 R	1954
6	1998	HUNG X	17	17	.06840	2003 R	1955
6	1998	HUNG X	1	1	.06840	2003 R	1955
6	1998	HUNG X	17	17	.06840	2003 R	1956
6	1998	HUNG X	1	1	.06840	2003 R	1956
6	1998	HUNG X	18	18	.06840	2003 R	1957
6	1998	HUNG X	1	1	.06840	2003 R	1957
6	1998	HUNG X	18	18	.06840	2003 R	1958
6	1998	HUNG X	1	1	.06840	2003 R	1958
6	1998	HUNG X	18	18	.06840	2003 R	1959
6	1998	HUNG X	1	1	.06840	2003 R	1959
6	1998	HUNG X	18	18	.06840	2003 R	1960
6	1998	HUNG X	1	1	.06840	2003 R	1960
6	1998	HUNG X	18	18	.06840	2003 R	1961
6	1998	HUNG X	1	1	.06840	2003 R	1961
6	1998	HUNG X	18	18	.06840	2003 R	1962
6	1998	HUNG X	1	1	.06840	2003 R	1962
6	1998	HUNG X	18	18	.06840	2003 R	1963
6	1998	HUNG X	1	1	.06840	2003 R	1963
6	1998	HUNG X	17	17	.06840	2003 R	1964
6	1998	HUNG X	1	1	.06840	2003 R	1964
6	1998	HUNG X	17	17	.06840	2003 R	1965
6	1998	HUNG X	1	1	.06840	2003 R	1965
6	1998	HUNG X	17	17	.06840	2003 R	1966
6	1998	HUNG X	1	1	.06840	2003 R	1966
6	1998	HUNG X	18	18	.06840	2003 R	1967
6	1998	HUNG X	1	1	.06840	2003 R	1967
6	1998	HUNG X	18	18	.06840	2003 R	1968
6	1998	HUNG X	1	1	.06840	2003 R	1968

6	1998	HUNG X	18	18	.06840	2003 R	1969
6	1998	HUNG X	1	1	.06840	2003 R	1969
6	1998	HUNG X	18	18	.06840	2003 R	1970
6	1998	HUNG X	1	1	.06840	2003 R	1970
6	1998	HUNG X	18	18	.06840	2003 R	1971
6	1998	HUNG X	1	1	.06840	2003 R	1971
6	1998	HUNG X	18	18	.06840	2003 R	1972
6	1998	HUNG X	1	1	.06840	2003 R	1972
6	1998	HUNG X	18	18	.06840	2003 R	1973
6	1998	HUNG X	1	1	.06840	2003 R	1973
6	1998	HUNG X	17	17	.06840	2003 R	1974
6	1998	HUNG X	1	1	.06840	2003 R	1974
6	1998	HUNG X	17	17	.06840	2003 R	1975
6	1998	HUNG X	1	1	.06840	2003 R	1975
6	1998	HUNG X	10	10	.06840	2003 R	1976
6	1998	HUNG X	1	1	.06840	2003 R	1976
6	1998	HUNG X	18	18	.06840	2003 R	1977
6	1998	HUNG X	1	1	.06840	2003 R	1977
6	1998	HUNG X	18	18	.06840	2003 R	1978
6	1998	HUNG X	1	1	.06840	2003 R	1978
6	1998	HUNG X	18	18	.06840	2003 R	1979
6	1998	HUNG X	1	1	.06840	2003 R	1979
6	1998	HUNG X	18	18	.06840	2003 R	1980
6	1998	HUNG X	1	1	.06840	2003 R	1980
6	1998	HUNG X	22	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1982
6	1998	HUNG X	12	12	.06840	2003 R	1983
6	1998	HUNG X	1	1	.06840	2003 R	1983
6	1998	HUNG X	32	0	.10750	2003 R	1984
6	1998	HUNG X	1	0	.10750	2003 R	1984
6	1998	HUNG X	36	0	.12375	2003 R	1985
6	1998	HUNG X	37	0	.12375	2003 R	1985
6	1998	HUNG X	101	0	.09250	2003 R	1989
6	1998	HUNG X	58	0	.08875	2003 R	1990
6	1998	HUNG X	19	0	.08750	2003 R	1991
6	1998	HUNG X	9	0	.08500	2003	1992
6	1998	HUNG X	4136	0	.07875	2003 R	1993
6	1998	HUNG X	2	0	.07875	2003	1993
6	1998	HUNG X	56	0	.07125	2019 R	1994
6	1998	HUNG X	156	6	.06620	2000 R	1995
6	1998	HUNG X	450	0	.07930	2020 R	1995
6	1998	HUNG X	536	536	.07150	2030 R	1995
6	1998	HUNG X	1198	1195	.07150	2030 R	1995
6	1998	HUNG X	6190	6190	.07150	2045	1995
6	1998	HUNG X	84	84	.06620	2000	1995
6	1998	HUNG X	14354	0	.07860	2045	1995
6	1998	HUNG X	15	15	.07150	2046	1996
6	1998	HUNG X	2	2	.07150	2046	1996
6	1998	HUNG X	154	154	.06950	2007	1997
6	1998	HUNG X	216	216	.07150	2047	1997
6	1998	ICEH X	59669	44308	.07160	2012	1962
6	1996	ICEH X	664	493	.07160	2012	1962

6	1998	ICEH X	46	46	.07160	2012 R	1963
6	1998	ICEH X	1	1	.07160	2012 R	1963
6	1998	ICEH X	46	46	.07160	2012 R	1964
6	1998	ICEH X	1	1	.07160	2012 R	1964
6	1998	ICEH X	46	46	.07160	2012 R	1965
6	1998	ICEH X	1	1	.07160	2012 R	1965
6	1998	ICEH X	46	46	.07160	2012 R	1966
6	1998	ICEH X	1	1	.07160	2012 R	1966
6	1998	ICEH X	46	46	.07160	2012 R	1967
6	1998	ICEH X	1	1	.07160	2012 R	1967
6	1998	ICEH X	46	46	.07160	2012 R	1968
6	1998	ICEH X	1	1	.07160	2012 R	1968
6	1998	ICEH X	46	46	.07160	2012 R	1969
6	1998	ICEH X	1	1	.07160	2012 R	1969
6	1998	ICEH X	46	46	.07160	2012 R	1970
6	1998	ICEH X	1	1	.07160	2012 R	1970
6	1998	ICEH X	46	46	.07160	2012 R	1971
6	1998	ICEH X	1	1	.07160	2012 R	1971
6	1998	ICEH X	46	46	.07160	2012 R	1972
6	1998	ICEH X	1	1	.07160	2012 R	1972
6	1998	ICEH X	46	46	.07160	2012 R	1973
6	1998	ICEH X	1	1	.07160	2012 R	1973
6	1998	ICEH X	46	46	.07160	2012 R	1974
6	1998	ICEH X	1	1	.07160	2012 R	1974
6	1998	ICEH X	46	46	.07160	2012 R	1975
6	1998	ICEH X	1	1	.07160	2012 R	1975
6	1998	ICEH X	20472	20472	.07150	2026 A	1976
6	1998	ICEH X	46	46	.07160	2012 R	1976
6	1998	ICEH X	228	228	.07150	2026 A	1976
6	1998	ICEH X	1	1	.07160	2012 R	1976
6	1998	ICEH X	46	46	.07160	2012 R	1977
6	1998	ICEH X	1	1	.07160	2012 R	1977
6	1998	ICEH X	46	46	.07160	2012 R	1978
6	1998	ICEH X	1	1	.07160	2012 R	1978
6	1998	ICEH X	46	46	.07160	2012 R	1979
6	1998	ICEH X	1	1	.07160	2012 R	1979
6	1998	ICEH X	46	46	.07160	2012 R	1980
6	1998	ICEH X	1	1	.07160	2012 R	1980
6	1998	ICEH X	46	46	.07160	2012 R	1981
6	1998	ICEH X	1	1	.07160	2012 R	1981
6	1998	ICEH X	46	46	.07160	2012 R	1982
6	1998	ICEH X	1	1	.07160	2012 R	1982
6	1998	ICEH X	46	46	.07160	2012 R	1983
6	1998	ICEH X	1	1	.07160	2012 R	1983
6	1998	ICEH X	21	21	.07150	2026 A	1985
6	1998	ICEH X	41	41	.07160	2012	1985
6	1998	ICEH X	137	137	.07160	2012	1986
6	1998	ICEH X	71	0	.08875	2012 R	1987
6	1998	ICEH X	3	3	.07160	2012	1987
6	1998	ICEH X	1	0	.08875	2012	1987
6	1998	ICEH X	8	0	.08500	2012	1988
6	1998	ICEH X	57	0	.08500	2012 R	1988
6	1998	ICEH X	51	0	.09250	2012 R	1989

6	1998	ICEH X	427	0	.08875	2012 R	1990
6	1998	ICEH X	348	0	.08750	2012 R	1991
6	1998	ICEH X	177	0	.08500	2012	1992
6	1998	ICEH X	3192	0	.07875	2012 R	1993
6	1998	ICEH X	1645	0	.07875	2012	1993
6	1998	ICEH X	328	0	.07125	2029 R	1994
6	1998	ICEH X	520	0	.07125	2029 A	1994
6	1998	ICEH X	2	0	.07330	2000 R	1995
6	1998	ICEH X	84	84	.07270	2019	1995
6	1998	ICEH X	171	171	.07270	2019	1995
6	1998	ICEH X	849	849	.07270	2019	1995
6	1998	ICEH X	78	78	.07150	2031	1996
6	1998	ICEH X	371	371	.07150	2041 R	1996
6	1998	ICEH X	66	66	.07230	2022	1997
6	1998	ICEH X	67	67	.07150	2047	1997
6	1998	JOHN X	27254	21686	.07280	2018	1968
6	1998	JOHN X	96104	96104	.07270	2019	1969
6	1998	JOHN X	23656	23656	.07250	2020	1970
6	1998	JOHN X	34974	34974	.07230	2021	1971
6	1998	JOHN X	11502	11502	.07210	2022	1972
6	1998	JOHN X	3677	0	.10750	2022 R	1984
6	1998	JOHN X	1209	0	.12375	2022 R	1985
6	1998	JOHN X	6490	6490	.07210	2022	1985
6	1998	JOHN X	713	0	.11375	2022 R	1986
6	1998	JOHN X	3227	3227	.07210	2022	1986
6	1998	JOHN X	4353	0	.08875	2022 R	1987
6	1998	JOHN X	706	706	.07210	2022	1987
6	1998	JOHN X	332	0	.08500	2022	1988
6	1998	JOHN X	199	0	.08500	2022 R	1988
6	1998	JOHN X	377	0	.09250	2022 R	1989
6	1998	JOHN X	30	30	.07210	2022	1989
6	1998	JOHN X	37	37	.07210	2022	1990
6	1998	JOHN X	543	0	.08875	2022 R	1990
6	1998	JOHN X	13218	0	.08750	2022 R	1991
6	1998	JOHN X	144	0	.08750	2022	1991
6	1998	JOHN X	19	19	.07210	2022	1992
6	1998	JOHN X	95	0	.08500	2022	1992
6	1998	JOHN X	7810	0	.07875	2022 R	1993
6	1998	JOHN X	9585	0	.07875	2022	1993
6	1998	JOHN X	14	0	.07125	2019 R	1994
6	1998	JOHN X	1252	0	.07125	2029 A	1994
6	1998	JOHN X	2	0	.07330	2000	1995
6	1998	JOHN X	9	0	.07330	2000 R	1995
6	1998	JOHN X	22	22	.07150	2035	1995
6	1998	JOHN X	37	37	.07150	2045	1995
6	1998	JOHN X	52	52	.07150	2035	1995
6	1998	JOHN X	79	79	.07250	2020	1995
6	1998	JOHN X	121	121	.07150	2035	1995
6	1998	JOHN X	608	608	.07150	2045	1995
6	1998	JOHN X	7653	7653	.07150	2045 R	1995
6	1998	JOHN X	237	237	.07130	2011	1996
6	1998	JOHN X	1072	1072	.07290	2016	1996
6	1998	JOHN X	133	133	.07230	2022	1997

6	1998	JOHN X	179	179	.07150	2047	1997
6	1998	LIBB X	54644	48138	.07160	2025	1975
6	1998	LIBB X	153432	153432	.07150	2026	1976
6	1998	LIBB X	1465	1465	.07150	2026 R	1977
6	1998	LIBB X	1465	1465	.07150	2026 R	1978
6	1998	LIBB X	1465	1465	.07150	2026 R	1979
6	1998	LIBB X	1465	1465	.07150	2026 R	1980
6	1998	LIBB X	1465	1465	.07150	2026 R	1981
6	1998	LIBB X	1465	1465	.07150	2026 R	1982
6	1998	LIBB X	1465	1465	.07150	2026 R	1983
6	1998	LIBB X	104	0	.10750	2026 R	1984
6	1998	LIBB X	518	518	.07150	2026	1985
6	1998	LIBB X	283	283	.07150	2026	1986
6	1998	LIBB X	2	2	.07150	2026	1987
6	1998	LIBB X	18043	14781	.07150	2038 A	1988
6	1998	LIBB X	35	0	.08505	2026	1988
6	1998	LIBB X	131	0	.09250	2026 R	1989
6	1998	LIBB X	1	1	.07150	2026	1989
6	1998	LIBB X	11	0	.08875	2026	1990
6	1998	LIBB X	134	0	.08750	2026 R	1991
6	1998	LIBB X	100	0	.08500	2026 R	1992
6	1998	LIBB X	70	0	.08500	2026	1992
6	1998	LIBB X	600	0	.07875	2026	1993
6	1998	LIBB X	215	0	.07125	2029 R	1994
6	1998	LIBB X	286	152	.07150	2029 A	1994
6	1998	LIBB X	15	15	.07150	2030 R	1995
6	1998	LIBB X	41	41	.07150	2030	1995
6	1998	LIBB X	94	94	.07150	2030 R	1995
6	1998	LIBB X	432	432	.07230	2022	1997
6	1998	LIBB X	660	660	.07150	2047	1997
6	1998	LITT X	22326	21301	.07250	2020	1970
6	1998	LITT X	42962	42962	.07230	2021	1971
6	1998	LITT X	28	28	.07230	2021 R	1972
6	1998	LITT X	29	29	.07230	2021 R	1973
6	1998	LITT X	28	28	.07230	2021 R	1974
6	1998	LITT X	29	29	.07230	2021 R	1975
6	1998	LITT X	28	28	.07230	2021 R	1976
6	1998	LITT X	29	29	.07230	2021 R	1977
6	1998	LITT X	49578	49578	.07150	2028 A	1978
6	1998	LITT X	28	28	.07230	2021 R	1978
6	1998	LITT X	29	29	.07230	2021 R	1979
6	1998	LITT X	28	28	.07230	2021 R	1980
6	1998	LITT X	29	29	.07230	2021 R	1981
6	1998	LITT X	28	28	.07230	2021 R	1982
6	1998	LITT X	29	29	.07230	2021 R	1983
6	1998	LITT X	201	0	.10750	2021 R	1984
6	1998	LITT X	47	47	.07150	2028 A	1985
6	1998	LITT X	174	174	.07230	2021	1985
6	1998	LITT X	239	239	.07230	2021	1986
6	1998	LITT X	72	0	.08875	2021 R	1987
6	1998	LITT X	6	6	.07230	2021	1987
6	1998	LITT X	12	0	.08500	2021	1988
6	1998	LITT X	68	0	.08500	2021 R	1988

6	1998	LITT X	77	0	.09250	2021 R	1989
6	1998	LITT X	408	0	.08875	2021 R	1990
6	1998	LITT X	21	0	.08875	2021	1990
6	1998	LITT X	266	0	.08750	2021 R	1991
6	1998	LITT X	66	0	.08500	2021 R	1992
6	1998	LITT X	27	0	.08500	2021	1992
6	1998	LITT X	276	0	.07875	2021 R	1993
6	1998	LITT X	3359	0	.07875	2021	1993
6	1998	LITT X	37	0	.07125	2019 R	1994
6	1998	LITT X	2044	0	.07125	2029 A	1994
6	1998	LITT X	17	17	.07150	2040	1995
6	1998	LITT X	450	450	.07150	2040	1995
6	1998	LITT X	733	733	.07150	2040 R	1995
6	1998	LITT X	10	10	.07150	2046	1996
6	1998	LITT X	10	10	.07150	2046 R	1996
6	1998	LITT X	211	211	.07150	2046	1996
6	1998	LITT X	241	241	.07150	2046	1996
6	1998	LITT X	520	520	.07150	2046 R	1996
6	1998	LITT X	3909	3909	.07150	2046 R	1996
6	1998	LITT X	1	1	.07150	2047	1997
6	1998	LOOK X	34290	28417	.06910	2005	1955
6	1998	LOOK X	52	52	.06910	2005 R	1956
6	1998	LOOK X	51	51	.06910	2005 R	1957
6	1998	LOOK X	51	51	.06910	2005 R	1958
6	1998	LOOK X	51	51	.06910	2005 R	1959
6	1998	LOOK X	51	51	.06910	2005 R	1960
6	1998	LOOK X	52	52	.06910	2005 R	1961
6	1998	LOOK X	51	51	.06910	2005 R	1962
6	1998	LOOK X	51	51	.06910	2005 R	1963
6	1998	LOOK X	51	51	.06910	2005 R	1964
6	1998	LOOK X	51	51	.06910	2005 R	1965
6	1998	LOOK X	51	51	.06910	2005 R	1966
6	1998	LOOK X	52	52	.06910	2005 R	1967
6	1998	LOOK X	51	51	.06910	2005 R	1968
6	1998	LOOK X	51	51	.06910	2005 R	1969
6	1998	LOOK X	51	51	.06910	2005 R	1970
6	1998	LOOK X	51	51	.06910	2005 R	1971
6	1998	LOOK X	51	51	.06910	2005 R	1972
6	1998	LOOK X	52	52	.06910	2005 R	1973
6	1998	LOOK X	51	51	.06910	2005 R	1974
6	1998	LOOK X	51	51	.06910	2005 R	1975
6	1998	LOOK X	51	51	.06910	2005 R	1976
6	1998	LOOK X	51	51	.06910	2005 R	1977
6	1998	LOOK X	51	51	.06910	2005 R	1978
6	1998	LOOK X	52	52	.06910	2005 R	1979
6	1998	LOOK X	51	51	.06910	2005 R	1980
6	1998	LOOK X	51	51	.06910	2005 R	1981
6	1998	LOOK X	51	51	.06910	2005 R	1982
6	1998	LOOK X	51	51	.06910	2005 R	1983
6	1998	LOOK X	185	0	.10750	2005 R	1984
6	1998	LOOK X	52	52	.06910	2005	1985
6	1998	LOOK X	42	42	.06910	2005	1986
6	1998	LOOK X	12	0	.08875	2005 R	1987

6	1998	LOOK X	9	9	.06910	2005	1987
6	1998	LOOK X	46	0	.08500	2005	1988
6	1998	LOOK X	17	0	.08500	2005 R	1988
6	1998	LOOK X	23	0	.09250	2005 R	1989
6	1998	LOOK X	147	0	.08875	2005 R	1990
6	1998	LOOK X	4	0	.08875	2005	1990
6	1998	LOOK X	6	0	.08750	2005 R	1991
6	1998	LOOK X	50	0	.08750	2005	1991
6	1998	LOOK X	181	0	.08500	2005 R	1992
6	1998	LOOK X	4	0	.08500	2005	1992
6	1998	LOOK X	18	0	.07875	2005 R	1993
6	1998	LOOK X	189	0	.07875	2005	1993
6	1998	LOOK X	73	0	.07125	2019 A	1994
6	1998	LOOK X	9	0	.07860	2045	1995
6	1998	LOOK X	15	0	.07860	2045	1995
6	1998	LOOK X	31	0	.07860	2045	1995
6	1998	LOOK X	33	33	.07150	2045	1995
6	1998	LOOK X	80	39	.07150	2045	1995
6	1998	LOOK X	157	0	.07860	2045	1995
6	1998	LOST X	13505	13413	.07150	2027	1977
6	1998	LOST X	58	58	.07150	2027 R	1978
6	1998	LOST X	60	60	.07150	2027 R	1979
6	1998	LOST X	60	60	.07150	2027 R	1980
6	1998	LOST X	60	60	.07150	2027 R	1981
6	1998	LOST X	60	60	.07150	2027 R	1982
6	1998	LOST X	60	60	.07150	2027 R	1983
6	1998	LOST X	243	0	.10750	2027 R	1984
6	1998	LOST X	12	12	.07150	2027	1985
6	1998	LOST X	5	0	.11375	2027 R	1986
6	1998	LOST X	6	6	.07150	2027	1986
6	1998	LOST X	3	0	.08875	2027 R	1987
6	1998	LOST X	4	4	.07150	2027	1987
6	1998	LOST X	7	0	.08500	2027	1988
6	1998	LOST X	9	0	.09250	2027 R	1989
6	1998	LOST X	1	0	.08875	2027	1990
6	1998	LOST X	31	0	.08750	2027	1991
6	1998	LOST X	1	0	.08500	2027 R	1992
6	1998	LOST X	1	0	.08500	2027	1992
6	1998	LOST X	1	0	.07875	2027 R	1993
6	1998	LOST X	14	0	.07875	2027	1993
6	1998	LOST X	4	0	.07330	2000	1995
6	1998	LOST X	94	94	.07150	2045	1995
6	1998	LOST X	24	24	.07150	2046	1996
6	1998	LOST X	31	31	.07150	2031	1996
6	1998	LOWG X	119237	117645	.07160	2025	1975
6	1998	LOWG X	510	510	.07160	2025 R	1976
6	1998	LOWG X	510	510	.07160	2025 R	1977
6	1998	LOWG X	40611	40611	.07150	2028 A	1978
6	1998	LOWG X	510	510	.07160	2025 R	1978
6	1998	LOWG X	510	510	.07160	2025 R	1979
6	1998	LOWG X	510	510	.07160	2025 R	1980
6	1998	LOWG X	510	510	.07160	2025 R	1981
6	1998	LOWG X	510	510	.07160	2025 R	1982

6	1998	LOWG	X	510	510	.07160	2025	R	1983
6	1998	LOWG	X	311	0	.10750	2025	R	1984
6	1998	LOWG	X	328	328	.07160	2025		1985
6	1998	LOWG	X	4	0	.11375	2025	R	1986
6	1998	LOWG	X	215	215	.07160	2025		1986
6	1998	LOWG	X	60	0	.08875	2025	R	1987
6	1998	LOWG	X	8	8	.07160	2025		1987
6	1998	LOWG	X	22	0	.08500	2025		1988
6	1998	LOWG	X	95	0	.08500	2025	R	1988
6	1998	LOWG	X	112	0	.09250	2025	R	1989
6	1998	LOWG	X	392	0	.08875	2025	R	1990
6	1998	LOWG	X	281	0	.08750	2025	R	1991
6	1998	LOWG	X	6	0	.08750	2025		1991
6	1998	LOWG	X	83	0	.08500	2025	R	1992
6	1998	LOWG	X	121	0	.08500	2025		1992
6	1998	LOWG	X	26	0	.07875	2025	R	1993
6	1998	LOWG	X	3272	0	.07875	2025		1993
6	1998	LOWG	X	38	0	.07125	2019	R	1994
6	1998	LOWG	X	3543	1551	.07150	2029	A	1994
6	1998	LOWG	X	77	77	.07290	2017	R	1995
6	1998	LOWG	X	96	96	.07160	2025		1995
6	1998	LOWG	X	388	388	.07290	2017		1995
6	1998	LOWG	X	458	458	.07290	2017		1995
6	1998	LOWG	X	9	9	.07150	2046	R	1996
6	1998	LOWG	X	206	206	.07150	2031		1996
6	1998	LOWG	X	255	255	.07130	2011		1996
6	1998	LOWG	X	625	625	.07150	2046		1996
6	1998	LOWG	X	677	677	.07150	2047		1997
6	1998	LOWM	X	26974	25083	.07270	2019		1969
6	1998	LOWM	X	51218	51218	.07250	2020		1970
6	1998	LOWM	X	214	214	.07250	2020	R	1971
6	1998	LOWM	X	214	214	.07250	2020	R	1972
6	1998	LOWM	X	214	214	.07250	2020	R	1973
6	1998	LOWM	X	214	214	.07250	2020	R	1974
6	1998	LOWM	X	214	214	.07250	2020	R	1975
6	1998	LOWM	X	214	214	.07250	2020	R	1976
6	1998	LOWM	X	214	214	.07250	2020	R	1977
6	1998	LOWM	X	214	214	.07250	2020	R	1978
6	1998	LOWM	X	40669	40669	.07150	2029	A	1979
6	1998	LOWM	X	214	214	.07250	2020	R	1979
6	1998	LOWM	X	214	214	.07250	2020	R	1980
6	1998	LOWM	X	214	214	.07250	2020	R	1981
6	1998	LOWM	X	214	214	.07250	2020	R	1982
6	1998	LOWM	X	214	214	.07250	2020	R	1983
6	1998	LOWM	X	256	256	.07150	2029	A	1985
6	1998	LOWM	X	8	8	.07250	2020		1985
6	1998	LOWM	X	132	132	.07250	2020		1986
6	1998	LOWM	X	50	0	.08875	2020	R	1987
6	1998	LOWM	X	3	3	.07250	2020		1987
6	1998	LOWM	X	1	0	.08500	2020		1988
6	1998	LOWM	X	58	0	.08500	2020	R	1988
6	1998	LOWM	X	93	0	.09250	2020	R	1989
6	1998	LOWM	X	358	0	.08875	2020	R	1990

6	1998	LOWM X	594	0	.08750	2020	1991
6	1998	LOWM X	4484	0	.08500	2020	1992
6	1998	LOWM X	24	0	.07875	2020 R	1993
6	1998	LOWM X	2175	0	.07875	2020	1993
6	1998	LOWM X	107	0	.07125	2019 R	1994
6	1998	LOWM X	2167	0	.07125	2029 A	1994
6	1998	LOWM X	6	0	.07330	2000	1995
6	1998	LOWM X	41	41	.07150	2045	1995
6	1998	LOWM X	99	99	.07150	2045	1995
6	1998	LOWM X	624	624	.07150	2045	1995
6	1998	LOWM X	1122	1122	.07150	2045 R	1995
6	1998	LOWM X	10	10	.07150	2046	1996
6	1998	LOWM X	37	37	.07230	2021	1996
6	1998	LOWM X	51	51	.07230	2021	1996
6	1998	LOWM X	264	264	.07150	2036 R	1996
6	1998	LOWM X	668	668	.07290	2016	1996
6	1998	LSFW X	30983	9967	.07150	2033	1983
6	1998	LSFW X	47921	47921	.07150	2035	1985
6	1998	LSFW X	72536	72536	.07150	2037	1987
6	1998	LSFW X	805	805	.07150	2038	1988
6	1998	LSFW X	1557	1557	.07150	2040	1990
6	1998	LSFW X	4411	4411	.07150	2041	1991
6	1998	LSFW X	71632	71632	.07150	2043	1993
6	1998	LSFW X	4619	4619	.07150	2044	1994
6	1998	LSFW X	2162	2162	.07150	2045	1995
6	1998	LSFW X	10185	10185	.07150	2046	1996
6	1998	LSFW X	2173	2173	.07150	2047	1997
6	1998	MCNA X	80256	35757	.06880	2004	1954
6	1998	MCNA X	53493	53493	.06910	2005	1955
6	1998	MCNA X	38748	38748	.06950	2006	1956
6	1998	MCNA X	24985	24985	.06980	2007	1957
6	1998	MCNA X	468	468	.06980	2007 R	1958
6	1998	MCNA X	468	468	.06980	2007 R	1959
6	1998	MCNA X	468	468	.06980	2007 R	1960
6	1998	MCNA X	468	468	.06980	2007 R	1961
6	1998	MCNA X	467	467	.06980	2007 R	1962
6	1998	MCNA X	468	468	.06980	2007 R	1963
6	1998	MCNA X	468	468	.06980	2007 R	1964
6	1998	MCNA X	468	468	.06980	2007 R	1965
6	1998	MCNA X	468	468	.06980	2007 R	1966
6	1998	MCNA X	467	467	.06980	2007 R	1967
6	1998	MCNA X	468	468	.06980	2007 R	1968
6	1998	MCNA X	468	468	.06980	2007 R	1969
6	1998	MCNA X	468	468	.06980	2007 R	1970
6	1998	MCNA X	468	468	.06980	2007 R	1971
6	1998	MCNA X	468	468	.06980	2007 R	1972
6	1998	MCNA X	467	467	.06980	2007 R	1973
6	1998	MCNA X	468	468	.06980	2007 R	1974
6	1998	MCNA X	468	468	.06980	2007 R	1975
6	1998	MCNA X	468	468	.06980	2007 R	1976
6	1998	MCNA X	467	467	.06980	2007 R	1977
6	1998	MCNA X	468	468	.06980	2007 R	1978
6	1998	MCNA X	468	468	.06980	2007 R	1979

6	1998	MCNA X	468	468	.06980	2007 R	1980
6	1998	MCNA X	468	468	.06980	2007 R	1981
6	1998	MCNA X	467	467	.06980	2007 R	1982
6	1998	MCNA X	468	468	.06980	2007 R	1983
6	1998	MCNA X	557	557	.06980	2007	1985
6	1998	MCNA X	454	454	.06980	2007	1986
6	1998	MCNA X	35	0	.08875	2007 R	1987
6	1998	MCNA X	24	24	.06980	2007	1987
6	1998	MCNA X	20	0	.08500	2007	1988
6	1998	MCNA X	50	0	.08500	2007 R	1988
6	1998	MCNA X	130	0	.09250	2007 R	1989
6	1998	MCNA X	2228	0	.08875	2007 R	1990
6	1998	MCNA X	14	0	.08875	2007	1990
6	1998	MCNA X	66	0	.08750	2007 R	1991
6	1998	MCNA X	76	0	.08750	2007	1991
6	1998	MCNA X	222	0	.08500	2007 R	1992
6	1998	MCNA X	125	0	.08500	2007	1992
6	1998	MCNA X	34	0	.07875	2007 R	1993
6	1998	MCNA X	1462	0	.07875	2007	1993
6	1998	MCNA X	1521	0	.07125	2029 A	1994
6	1998	MCNA X	68	0	.07125	2019 R	1994
6	1998	MCNA X	16	16	.07150	2045	1995
6	1998	MCNA X	509	509	.07090	2010	1995
6	1998	MCNA X	3	3	.07130	2011	1996
6	1998	MCNA X	74	74	.07150	2026	1996
6	1998	MCNA X	277	277	.07150	2026	1996
6	1998	MCNA X	619	619	.07150	2046	1996
6	1998	MCNA X	778	778	.06950	2006	1996
6	1998	MCNA X	30	30	.07150	2032	1997
6	1998	MINI X	854	0	.03000	1959	1909
6	1998	MINI X	226	0	.03000	1959	1909
6	1998	MINI X	1709	0	.03000	1960	1910
6	1998	MINI X	451	0	.03000	1960	1910
6	1998	MINI X	1709	0	.03000	1961	1911
6	1998	MINI X	451	0	.03000	1961	1911
6	1998	MINI X	854	0	.03000	1977	1927
6	1998	MINI X	226	0	.03000	1977	1927
6	1998	MINI X	854	0	.03000	1992	1942
6	1998	MINI X	226	0	.03000	1992	1942
6	1998	MINI X	2561	0	.03000	2007	1957
6	1998	MINI X	677	0	.03000	2007	1957
6	1998	MINI X	854	0	.03000	2008	1958
6	1998	MINI X	226	0	.03000	2008	1958
6	1998	MINI X	108	0	.03000	2008 R	1959
6	1998	MINI X	28	0	.03000	2008 R	1959
6	1998	MINI X	108	0	.03000	2008 R	1960
6	1998	MINI X	29	0	.03000	2008 R	1960
6	1998	MINI X	108	0	.03000	2008 R	1961
6	1998	MINI X	29	0	.03000	2008 R	1961
6	1998	MINI X	108	0	.03000	2008 R	1962
6	1998	MINI X	28	0	.03000	2008 R	1962
6	1998	MINI X	108	0	.03000	2008 R	1963
6	1998	MINI X	29	0	.03000	2008 R	1963

6	1998	MINI X	108	0	.03000	2008 R	1964
6	1998	MINI X	28	0	.03000	2008 R	1964
6	1998	MINI X	108	0	.03000	2008 R	1965
6	1998	MINI X	29	0	.03000	2008 R	1965
6	1998	MINI X	108	0	.03000	2008 R	1966
6	1998	MINI X	29	0	.03000	2008 R	1966
6	1998	MINI X	108	0	.03000	2008 R	1967
6	1998	MINI X	28	0	.03000	2008 R	1967
6	1998	MINI X	108	0	.03000	2008 R	1968
6	1998	MINI X	29	0	.03000	2008 R	1968
6	1998	MINI X	3	0	.03000	2008 R	1969
6	1998	MINI X	28	0	.03000	2008 R	1969
6	1998	MINI X	108	0	.03000	2008 R	1970
6	1998	MINI X	29	0	.03000	2008 R	1970
6	1998	MINI X	108	0	.03000	2008 R	1971
6	1998	MINI X	29	0	.03000	2008 R	1971
6	1998	MINI X	108	0	.03000	2008 R	1972
6	1998	MINI X	28	0	.03000	2008 R	1972
6	1998	MINI X	108	0	.03000	2008 R	1973
6	1998	MINI X	29	0	.03000	2008 R	1973
6	1998	MINI X	108	0	.03000	2008 R	1974
6	1998	MINI X	28	0	.03000	2008 R	1974
6	1998	MINI X	108	0	.03000	2008 R	1975
6	1998	MINI X	29	0	.03000	2008 R	1975
6	1998	MINI X	108	0	.03000	2008 R	1976
6	1998	MINI X	29	0	.03000	2008 R	1976
6	1998	MINI X	83	56	.07020	2008 R	1977
6	1998	MINI X	28	0	.07020	2008 R	1977
6	1998	MINI X	75	75	.07020	2008 R	1978
6	1998	MINI X	20	20	.07020	2008 R	1978
6	1998	MINI X	75	75	.07020	2008 R	1979
6	1998	MINI X	19	19	.07020	2008 R	1979
6	1998	MINI X	75	75	.07020	2008 R	1980
6	1998	MINI X	20	20	.07020	2008 R	1980
6	1998	MINI X	75	75	.07020	2008 R	1981
6	1998	MINI X	20	20	.07020	2008 R	1981
6	1998	MINI X	75	75	.07020	2008 R	1982
6	1998	MINI X	19	19	.07020	2008 R	1982
6	1998	MINI X	65	65	.07020	2008 R	1983
6	1998	MINI X	20	20	.07020	2008 R	1983
6	1998	MINI X	44	0	.10750	2008 R	1984
6	1998	MINI X	11	0	.10750	2008 R	1984
6	1998	MINI X	21	21	.07020	2008	1985
6	1998	MINI X	48	0	.11375	2008 R	1986
6	1998	MINI X	21	21	.07020	2008	1986
6	1998	MINI X	16	16	.07020	2008	1987
6	1998	MINI X	31	0	.08500	2008	1988
6	1998	MINI X	20	0	.09250	2008 R	1989
6	1998	MINI X	33	0	.08875	2008 R	1990
6	1998	MINI X	62	0	.08750	2008 R	1991
6	1998	MINI X	11	0	.08750	2008	1991
6	1998	MINI X	32	0	.08750	2008 R	1991
6	1998	MINI X	6	0	.08500	2008 R	1992

6	1998	MINI X	351	0	.07125	2029	1994
6	1998	MINI X	6	0	.07330	2000	1995
6	1998	MINI X	40	0	.07890	2010 R	1995
6	1998	MINI X	54	54	.07130	2011	1996
6	1998	MINI X	66	66	.06950	2007	1997
6	1998	MINI X	51558	51558	.07150	2047	1997
6	1998	THED X	15908	0	.02500	2007	1957
6	1998	THED X	45837	33988	.07020	2008	1958
6	1998	THED X	40415	40415	.07060	2009	1959
6	1998	THED X	39179	39179	.07090	2010	1960
6	1998	THED X	9492	9492	.07130	2011	1961
6	1998	THED X	56	56	.07130	2011 R	1962
6	1998	THED X	57	57	.07130	2011 R	1963
6	1998	THED X	57	57	.07130	2011 R	1964
6	1998	THED X	56	56	.07130	2011 R	1965
6	1998	THED X	57	57	.07130	2011 R	1966
6	1998	THED X	57	57	.07130	2011 R	1967
6	1998	THED X	56	56	.07130	2011 R	1968
6	1998	THED X	57	57	.07130	2011 R	1969
6	1998	THED X	57	57	.07130	2011 R	1970
6	1998	THED X	56	56	.07130	2011 R	1971
6	1998	THED X	57	57	.07130	2011 R	1972
6	1998	THED X	21983	21983	.07190	2023 A	1973
6	1998	THED X	57	57	.07130	2011 R	1973
6	1998	THED X	7268	7268	.07170	2024 A	1974
6	1998	THED X	56	56	.07130	2011 R	1974
6	1998	THED X	57	57	.07130	2011 R	1975
6	1998	THED X	57	57	.07130	2011 R	1976
6	1998	THED X	56	56	.07130	2011 R	1977
6	1998	THED X	57	57	.07130	2011 R	1978
6	1998	THED X	57	57	.07130	2011 R	1979
6	1998	THED X	56	56	.07130	2011 R	1980
6	1998	THED X	57	57	.07130	2011 R	1981
6	1998	THED X	57	57	.07130	2011 R	1982
6	1998	THED X	56	56	.07130	2011 R	1983
6	1998	THED X	961	0	.10750	2011 R	1984
6	1998	THED X	280	0	.12375	2011 R	1985
6	1998	THED X	95	95	.07130	2011	1985
6	1998	THED X	4	0	.11375	2011 R	1986
6	1998	THED X	95	95	.07130	2011	1986
6	1998	THED X	81	0	.08875	2011 R	1987
6	1998	THED X	1417	1417	.07130	2011	1987
6	1998	THED X	685	0	.08500	2011	1988
6	1998	THED X	1	0	.08500	2011 R	1988
6	1998	THED X	898	0	.09250	2011 R	1989
6	1998	THED X	319	0	.08875	2011 R	1990
6	1998	THED X	745	0	.08875	2011	1990
6	1998	THED X	89	0	.08750	2011 R	1991
6	1998	THED X	2452	0	.08750	2011	1991
6	1998	THED X	57	0	.08500	2011 R	1992
6	1998	THED X	130	0	.08500	2011	1992
6	1998	THED X	2028	0	.07875	2011 R	1993
6	1998	THED X	2929	0	.07875	2011	1993

6	1998	THED X	1425	0	.07125	2029 A	1994
6	1998	THED X	196	196	.07020	2008	1996
6	1998	THED X	457	457	.07130	2011	1996
6	1998	THED X	1991	1991	.07150	2046	1996
6	1998	YAKC X	1068	193	.07210	2022	1956
6	1998	YAKC X	481	216	.07210	2022	1956
6	1998	YAKC X	1	1	.07210	2022 R	1959
6	1998	YAKC X	1	1	.07210	2022 R	1960
6	1998	YAKC X	1	1	.07210	2022 R	1961
6	1998	YAKC X	35	0	.10750	2022 R	1984
6	1998	YAKC X	10	0	.10750	2022 R	1984
6	1998	YAKC X	357	0	.12375	2022 R	1985
6	1998	YAKC X	7	0	.11375	2022 R	1986
6	1998	YAKC X	456	455	.07210	2022	1986
6	1998	YAKC X	126	0	.08875	2022 R	1987
6	1998	YAKC X	18	0	.09250	2022 R	1989
6	1998	YAKC X	40	0	.08875	2022 R	1990
6	1998	YAKC X	109	0	.08750	2022	1991
6	1998	YAKR X	961	533	.07020	2008	1958
6	1998	YAKR X	292	161	.07020	2008	1958
6	1998	YAKR X	17	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.12375	2008 R	1985
6	1998	YAKR X	69	69	.07020	2008	1985
6	1998	YAKR X	6	6	.07020	2008	1986
6	1998	YAKR X	9	0	.08875	2008 R	1987
6	1998	YAKR X	2	2	.07020	2008	1987
6	1998	YAKR X	11	0	.08500	2008	1988
6	1998	YAKR X	17	0	.09250	2008 R	1989
6	1998	YAKR X	76	0	.08750	2008 R	1991
			3993273	3102498			
					908.36050		2668464
						2715584	

890775 = TOTAL FOR 6

6	1998	ZABF X	38	0	.08350	2032	1992	10	
6	1998	ZABF X	67	67	.07700	2025	1995	07	05
6	1998	ZABF X	5622	5622	.05900	2003	1996	08	T
6	1998	ZABF X	7400	7400	.06800	2004	1997	01	T
6	1999	ZABF X	11080	11080	.05900	2014	1999	02	T
6	1998	ZACO X	140000	0	.12200	2003	1983	09	
6	1998	ZACO X	150000	0	.13050	2004	1984	09	
6	1998	ZACO X	-120000	0	.13050	2004	1989	09	
6	1998	ZACO X	50000	0	.10150	1990	1985	09	T
6	1998	ZACO X	50000	0	.08150	1996	1986	03	T
6	1998	ZACO X	50000	0	.07800	1991	1986	03	T
6	1998	ZACO X	75000	0	.09300	2007	1987	04	
6	1998	ZACO X	-75000	0	.09300	2007	1992	04	
6	1998	ZACO X	50000	0	.08350	1992	1987	06	T
6	1998	ZACO X	90000	0	.09900	2008	1988	04	
6	1998	ZACO X	40000	40000	.08550	2009	1989	07	T
6	1998	ZACO X	66000	0	.08600	1995	1989	09	T
6	1998	ZACO X	66000	66000	.08650	2002	1989	09	T

6	1998	ZACO X	100000	0	.07140	2007	1992	07		
6	1998	ZACO X	-100000	0	.07140	2007	1998	09		
6	1998	ZACO X	80200	0	.05800	1997	1992	07	T	
6	1998	ZACO X	50000	0	.08050	2012	1992	10		
6	1998	ZACO X	50000	0	.07400	2013	1993	02		
6	1998	ZACO X	-50000	0	.07400	2013	1998	09		
6	1998	ZACO X	40000	40000	.06750	2013	1993	08		
6	1998	ZACO X	50000	50000	.06750	2014	1994	01		
6	1998	ZACO X	50000	0	.07100	1998	1994	05	01	P
6	1998	ZACO X	85000	85000	.07500	2015	1995	05	05	
6	1998	ZACO X	30000	30000	.06700	2011	1996	01	05	
6	1998	ZACO X	40000	40000	.07200	2017	1996	11	05	
6	1998	ZACO X	37700	37700	.06000	2009	1998	05	T	
6	1998	ZACO X	52800	52800	.05600	2013	1998	09	T	
6	1998	ZACO X	104300	104300	.05300	2008	1998	09	T	
6	1999	ZACO X	6000	6000	.07470	2019	1999	03		
6	1998	ZADB X	35000	35000	.07500	2015	1995	05	05	
6	1998	ZADB X	50000	50000	.06500	2000	1997	05	T	
6	1998	ZADB X	25000	25000	.06000	2008	1998	04		
6	1999	ZADB X	20000	20000	.06400	2004	1999	09	T	
6	1998	ZAFW X	25000	00	.08950	1999	1989	05	T	
6	1998	ZAFW X	50000	0	.07950	1996	1991	05	T	
6	1998	ZAFW X	20000	20000	.06950	2008	1993	02		
6	1998	ZAFW X	20000	0	.07650	1999	1994	09	01	P
6	1998	ZAFW X	22900	22900	.07200	2010	1995	08	05	
6	1998	ZAFW X	60000	60000	.06100	2013	1998	01		
6	1999	ZAFW X	20000	20000	.06300	2003	1999	09	T	
			1630107	828869						
				34.85000			89687			
				90307						

801238 = TOTAL FOR 6

6	1998	ZIRR X	25143	0	.00000	1997	1997			
6	1998	ZIRR X	25143	0	.00000	1997	1997			
6	1998	ZIRR X	16560	16560	.00000	2001	1997			
6	1998	ZIRR X	184	184	.00000	2004	1997			
6	1998	ZIRR X	208	208	.00000	2004	1997			
6	1998	ZIRR X	347	347	.00000	2004	1997			
6	1998	ZIRR X	2950	2950	.00000	2008	1997			
6	1998	ZIRR X	5702	5702	.00000	2009	1997			
6	1998	ZIRR X	2007	2007	.00000	2009	1997			
6	1998	ZIRR X	811	811	.00000	2012	1997			
6	1998	ZIRR X	49796	49796	.00000	2013	1997			
6	1998	ZIRR X	48554	48554	.00000	2014	1997			
6	1998	ZIRR X	54101	54101	.00000	2015	1997			
6	1998	ZIRR X	64264	64264	.00000	2016	1997			
6	1998	ZIRR X	60457	60457	.00000	2017	1997			
6	1998	ZIRR X	1071	1071	.00000	2017	1997			
6	1998	ZIRR X	718	718	.00000	2017	1997			
6	1998	ZIRR X	24267	24267	.00000	2018	1997			
6	1998	ZIRR X	680	680	.00000	2018	1997			
6	1998	ZIRR X	513	513	.00000	2018	1997			
6	1998	ZIRR X	61343	61343	.00000	2019	1997			

6	1998	ZIRR X	1125	1125	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	375	375	.00000	2019	1997
6	1998	ZIRR X	34108	34108	.00000	2020	1997
6	1998	ZIRR X	2635	2635	.00000	2020	1997
6	1998	ZIRR X	15436	15436	.00000	2021	1997
6	1998	ZIRR X	1390	1390	.00000	2021	1997
6	1998	ZIRR X	15416	15416	.00000	2022	1997
6	1998	ZIRR X	415	415	.00000	2022	1997
6	1998	ZIRR X	9663	9663	.00000	2023	1997
6	1998	ZIRR X	14088	14088	.00000	2024	1997
6	1998	ZIRR X	1943	1943	.00000	2024	1997
6	1998	ZIRR X	5041	5041	.00000	2024	1997
6	1998	ZIRR X	17104	17104	.00000	2025	1997
6	1998	ZIRR X	1184	1184	.00000	2025	1997
6	1998	ZIRR X	3810	3810	.00000	2026	1997
6	1998	ZIRR X	11994	11994	.00000	2026	1997
6	1998	ZIRR X	953	953	.00000	2026	1997
6	1998	ZIRR X	2119	2119	.00000	2026	1997
6	1998	ZIRR X	8171	8171	.00000	2027	1997
6	1998	ZIRR X	14159	14159	.00000	2028	1997
6	1998	ZIRR X	4204	4204	.00000	2028	1997
6	1998	ZIRR X	4092	4092	.00000	2029	1997
6	1998	ZIRR X	2432	2432	.00000	2030	1997
6	1998	ZIRR X	15606	15606	.00000	2031	1997
6	1998	ZIRR X	12038	12038	.00000	2035	1997
6	1998	ZIRR X	3660	3660	.00000	2036	1997
6	1998	ZIRR X	16163	16163	.00000	2036	1997
6	1998	ZIRR X	9986	9986	.00000	2036	1997
6	1998	ZIRR X	4720	4720	.00000	2037	1997
6	1998	ZIRR X	22069	22069	.00000	2037	1997
6	1998	ZIRR X	15619	15619	.00000	2039	1997
6	1998	ZIRR X	73699	73699	.00000	2042	1997
6	1998	ZIRR X	26329	26329	.00000	2045	1997
			820723	770437			
					.00000		111832
							113194

50286 = TOTAL FOR 6

PROJECTED FEDERAL INVESTMENTS

			ORIGINAL	CURRENT	INTEREST	DUE	INSERVICE	CALENDAR
	PROJECT		PRINCIPAL	PRINCIPAL	RATE	DATE	DATE	MONTH
6	2000	BONN X	23476	23476	.06125	2050	2000	
6	2000	COLU X	1185	1185	.06125	2050	2000	
6	2000	COLU X	817	817	.06125	2050	2000	
6	2000	CRFB X	4541	4541	.06125	2050	2000	
6	2000	ICEH X	696	696	.06125	2050	2000	
6	2000	JOHN X	17643	17643	.06125	2050	2000	
6	2000	LOWG X	1261	1261	.06125	2050	2000	
6	2000	LOWM X	521	521	.06125	2050	2000	
6	2000	MCNA X	937	937	.06125	2050	2000	

6	2000	MINI X	81	81	.06520	2010	2000
6	2001	BOIS X	27	27	.06190	2011	2001
6	2001	BOIS X	4	4	.06190	2011	2001
6	2001	BONN X	17820	17820	.06390	2051	2001
6	2001	COLU X	3557	3557	.06390	2051	2001
6	2001	COLU X	1163	1163	.06390	2051	2001
6	2001	CRFB X	457474	457474	.06180	2051	2001
6	2001	LSFW X	7649	7649	.05990	2051	2001
6	2001	MINI X	80	80	.06190	2011	2001
6	2001	THED X	12528	12528	.06390	2051	2001
6	2002	BOIS X	27	27	.05940	2012	2002
6	2002	BONN X	8910	8910	.06180	2052	2002
6	2002	COLU X	507	507	.06120	2027	2002
6	2002	COLU X	1162	1162	.06180	2052	2002
6	2002	CRFB X	111042	111042	.06180	2052	2002
6	2002	LSFW X	794	794	.06180	2052	2002
6	2002	MINI X	80	80	.05940	2012	2002
6	2002	THED X	12528	12528	.06180	2052	2002
6	2003	BOIS X	27	27	.05750	2013	2003
6	2003	BONN X	22216	22216	.05990	2053	2003
6	2003	COLU X	507	507	.05930	2028	2003
6	2003	COLU X	1161	1161	.05990	2053	2003
6	2003	CRFB X	44682	44682	.05990	2053	2003
6	2003	MINI X	80	80	.05750	2013	2003
6	2003	THED X	12528	12528	.05990	2053	2003
			767711	767711			
				20.82350			68046
							69376

0 = TOTAL FOR 6

6	2000	ZABF X	4100	4100	.07540	2045	2000	03
6	2000	ZACO X	32555	32555	.07400	2020	2000	03
6	2000	ZADB X	95369	95369	.07540	2045	2000	03
6	2000	ZAFW X	27000	27000	.07240	2015	2000	03
6	2001	ZABF X	7600	7600	.07290	2046	2001	03
6	2001	ZACO X	1000	1000	.07110	2021	2001	03
6	2001	ZADB X	76100	76100	.07290	2046	2001	03
6	2001	ZAFW X	27000	27000	.06920	2016	2001	03
6	2002	ZABF X	2100	2100	.07080	2047	2002	03
6	2002	ZADB X	89855	89855	.07080	2047	2002	03
6	2002	ZAFW X	34732	34732	.06690	2017	2002	03
6	2003	ZABF X	1400	1400	.06890	2048	2003	03
6	2003	ZADB X	86650	86650	.06890	2048	2003	03
6	2003	ZAFW X	38317	38317	.06500	2018	2003	03
			523778	523778				
				9.94600			28019	
							28479	

0 = TOTAL FOR 6

CHAPTER 4

**REPAYMENT STUDY RESULTS
CURRENT STUDY
FY 2003**

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**Summary of Interest Expense
Generation
FY 2003 Current Repayment Study**

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BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	222,012	236,125	252,003	255,597	254,687	250,900	242,069	233,772	229,460	229,460
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BPA BORROWING

BPA PROGRAM	1,649	2,075	2,426	2,549	2,265	1,762	1,762	1,762	1,762	1,762
BPA CONSERVATION	38,869	40,109	40,144	34,435	34,435	34,435	34,435	34,435	34,435	28,907
FISH, WILDLIFE & ENV	8,936	10,848	12,944	15,351	15,337	15,337	15,337	15,337	13,947	13,947
BUREAU DIRECT FUND	12,250	15,370	21,325	27,491	30,476	29,196	28,030	28,030	26,530	26,530
IRRIGATION ASSISTANC										
PREMIUMS	4					1,036		243		129
0LESS										
0 AFUDC										
0 INTEREST INCOME	11,449	11,311	13,367	12,414	12,523	14,359	13,226	12,663	12,289	12,982
0TOTAL BPA BORROWING	50,259	57,091	63,472	67,412	69,990	67,407	66,338	67,144	64,385	58,293
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TOTALS	272,271	293,216	315,475	323,009	324,677	318,307	308,407	300,916	293,845	287,753

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
BUREAU OF RECLAMATION										
BOISE	248	248	246	244	242	242	242	268	295	295
COLUMBIA BASIN	1,155	1,155	1,155	2,869	4,584	4,584	4,584	5,817	13,210	19,336
COLUMBIA BASIN - 3RD	32,564	32,564	32,564	32,564	32,564	32,564	29,405	25,875	17,029	9,830
HUNGRY HORSE	582	582	582	633	683	683	683	683	683	560
MINIDOKA	3,710	3,705	3,696	3,691	3,686	3,686	3,686	3,916	4,145	4,145
YAKIMA-CHANDLER	63	63	63	63	63		8	15	15	15
YAKIMA-ROZA										
TOTAL BUREAU	38,322	38,317	38,306	40,064	41,822	41,759	38,608	36,574	35,377	34,181
CORPS OF ENGINEERS										
ALBENI FALLS	184	183	183	183	183	218	252	252	252	252
BONNEVILLE	7,509	12,521	17,568	17,725	17,849	17,840	19,898	20,348	22,236	21,381
BONNEVILLE - 2ND POW	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	3,833
CHIEF JOSEPH	14,919	14,918	14,918	17,094	19,269	19,269	19,269	19,380	13,310	7,964
COUGAR	686	686	686	686	6	10	10	10	10	10
COLUMBIA RIVER FISH	42,269	42,269	42,269	42,269	42,269	42,269	42,269	42,269	42,269	42,269
DETROIT-BIG CLIFF	3	3	3	3	885	1,766	1,766	1,766	1,766	1,766
DWORSHAK	10,770	10,770	10,762	11,112	11,463	1,364	1,364	1,364	1,453	1,510
GREEN PETER-FOSTER	5	5	64	179	232	232	234	239	245	247
HILLS CREEK	686	686	686	2	2	2	2	2	2	2
ICE HARBOR FISH BYPA										
ICE HARBOR	4,851	5,818	7,755	5,442	5,442	5,437	5,578	4,640	5,210	4,647
JOHN DAY	9,856	9,856	7,550	7,551	3,960	2,669	3,634	3,634	3,635	3,638
LIBBY	16,366	16,695	17,024	17,024	17,024	16,999	12,637	2,820	2,821	2,797
LITTLE GOOSE FISH BY										
LITTLE GOOSE	8,687	9,939	11,191	10,411	7,134	7,100	8,026	8,952	5,715	6,097
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	5	5	6	6	6	39	72	72	72	72
LOST CREEK	995	995	996	996	996	996	996	1,045	111	109
LOWER GRANITE	11,984	11,985	11,967	12,278	12,589	10,197	6,506	6,507	3,855	3,979
LOWER MONUMENTAL	7,052	7,053	5,008	3,122	4,301	5,488	5,488	5,558	5,630	3,081
MCNARY	165	132	135	135	135	3,426	6,717	6,692	6,693	6,692
MCNARY FISH BYPASS										
STRUBE										
THE DALLES	8,260	5,482	4,569	4,576	4,584	2,487	2,491	2,491	2,731	3,049
TOTAL CORPS	171,479	176,228	179,567	177,021	174,556	164,035	163,436	154,268	144,243	113,395

LOWER SNAKE F AND W	16,806	16,823	16,840	16,975	17,111	17,114	17,117	17,117	17,171	16,491
BONNEVILLE POWER ADM										
TOTAL APPROPRIATIONS	226,607	231,368	234,713	234,060	233,489	222,908	219,161	207,959	196,791	164,067
BPA BORROWING										
BPA PROGRAM	1,762	1,762	1,453	1,453	1,453	799	799	799	799	799
BPA CONSERVATION	23,225	23,225	21,215	21,215	15,558	12,183	5,808	5,808	2,928	2,928
FISH, WILDLIFE & ENV	13,947	12,298	12,298	12,298	8,638	8,638	6,683	4,815	2,491	
BUREAU DIRECT FUND	26,368	21,422	20,505	20,505	20,505	20,505	17,880	17,880	17,880	17,880
IRRIGATION ASSISTANC										
PREMIUMS	3,847	927								
0LESS										
0 AFUDC										
0 INTEREST INCOME	12,918	12,587	11,884	18,891	20,518	20,725	20,047	23,889	29,504	21,923
0TOTAL BPA BORROWING	56,231	47,047	43,587	36,580	25,636	21,400	11,123	5,413	-5,406	-316
TOTALS	282,838	278,415	278,300	270,640	259,125	244,308	230,284	213,372	191,385	163,751

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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
BUREAU OF RECLAMATION										
BOISE	295	53	53	49	1			918		
COLUMBIA BASIN	19,336	18,540	19,891	17,154	6,672			1,506	5,170	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE	264	101	101	175	71				346	
MINIDOKA	4,145	459	558	651	159			23		
YAKIMA-CHANDLER	15	15	15	11	11		17			
YAKIMA-ROZA									2	
TOTAL BUREAU	24,055	19,168	20,618	18,040	6,914		17	2,447	5,518	
CORPS OF ENGINEERS										
ALBENI FALLS	252	69	69	69	69	268		4		
BONNEVILLE	21,381	24,027	27,265	22,112	9,035	6,216	1,900	73		119
BONNEVILLE - 2ND POW	298									
CHIEF JOSEPH	7,677	7,395	7,395	3,050	276			1,794	395	
COUGAR	10	8	8	8	11					
COLUMBIA RIVER FISH	42,269	39,190	10,158	3,778	3,778	1,102				
DETROIT-BIG CLIFF	1,766	1,763	1,763	1,724	1,803		1			721
DWORSHAK	1,427	884	885	1,171	967	1				2
GREEN PETER-FOSTER	247	245	245	246	15	1		45	29	
HILLS CREEK	2		11	22						
ICE HARBOR FISH BYPA										
ICE HARBOR	4,620	4,616	5,616	4,549	4,032	2,292	248	401		
JOHN DAY	3,642	3,056	3,056	1,975	175	2	1			
LIBBY	1,984	2,238	2,296	1,642	177	248	187			
LITTLE GOOSE FISH BY										
LITTLE GOOSE	6,081	5,871	6,012	4,746	4,193	1		2	85	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	72	67	67	67	67	3		1		
LOST CREEK	109	100	138	175	2			20		
LOWER GRANITE	4,506	4,939	4,939	4,251	3,337	83			56	
LOWER MONUMENTAL	3,443	3,307	3,307	2,684	2,259	2				1,943
MCNARY	6,690	6,645	6,645	6,588	6,588	3,725		863		
MCNARY FISH BYPASS										
STRUBE										
THE DALLEs	3,126	2,532	2,288	1,515	1,151	6				2,193
TOTAL CORPS	109,602	106,952	82,163	60,372	37,935	13,950	2,337	3,203	565	4,978
LOWER SNAKE F AND W	1,958	920	920	1,151	981	54			68	

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	135,615	127,040	103,701	79,563	45,830	14,004	2,354	5,650	6,151	4,978
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BPA BORROWING

BPA PROGRAM	799									
BPA CONSERVATION	2,480									
FISH, WILDLIFE & ENV										
BUREAU DIRECT FUND	17,880									
IRRIGATION ASSISTANC										
PREMIUMS	11,210									
0LESS										
0 AFUDC										
0 INTEREST INCOME	22,656	23,118	22,108	23,093	23,553	22,449	23,602	23,602	22,073	23,602
0TOTAL BPA BORROWING	9,713	-23,118	-22,108	-23,093	-23,553	-22,449	-23,602	-23,602	-22,073	-23,602
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TOTALS	145,328	103,922	81,593	56,470	22,277	-8,445	-21,248	-17,952	-15,922	-18,624

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
BUREAU OF RECLAMATION										
BOISE			30							
COLUMBIA BASIN								1,538	276	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				214						
MINIDOKA			77					266		
YAKIMA-CHANDLER		30					20			
YAKIMA-ROZA				3					4	
TOTAL BUREAU		30	107	217			20	1,804	280	
CORPS OF ENGINEERS										
ALBENI FALLS	81					49				4
BONNEVILLE		2,016	1,373				1,900	123		816
BONNEVILLE - 2ND POW										
CHIEF JOSEPH			173					931	28	
COUGAR					80					5
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF					599				1	
DWORSHAK				200			1	1		
GREEN PETER-FOSTER	1							2		
HILLS CREEK										
ICE HARBOR FISH BYPA										
ICE HARBOR			2,089		353		6	450		765
JOHN DAY	238			1						
LIBBY	6		2			199	79			2
LITTLE GOOSE FISH BY										
LITTLE GOOSE		1,925			1	1			37	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	31					418				1
LOST CREEK								6		
LOWER GRANITE		2				1,669			20	1
LOWER MONUMENTAL			1	1						331
MCNARY	670		1			2,802				862
MCNARY FISH BYPASS										
STRUBE										
THE DALLES		2		722	118		1			1,425
TOTAL CORPS	1,027	3,945	3,639	924	1,151	5,138	1,987	1,513	86	4,212

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
BUREAU OF RECLAMATION										
BOISE								31		
COLUMBIA BASIN								5,946	1,714	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				240						
MINIDOKA			61					132		
YAKIMA-CHANDLER							29			
YAKIMA-ROZA									7	
TOTAL BUREAU			61	240			29	6,109	1,721	
CORPS OF ENGINEERS										
ALBENI FALLS						2				
BONNEVILLE		2,675	34			119	5,089			4
BONNEVILLE - 2ND POW										
CHIEF JOSEPH								44	2,176	
COUGAR					49					
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF		18			885					
DWORSHAK				393		3			317	
GREEN PETER-FOSTER			4	2	1			151	549	
HILLS CREEK			55							
ICE HARBOR FISH BYPA			1,412				1,112	401		
ICE HARBOR										
JOHN DAY	18		1			85		1		
LIBBY						6	331			
LITTLE GOOSE FISH BY										
LITTLE GOOSE		393		70			956		338	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER						262				
LOST CREEK								1		
LOWER GRANITE							292	2	311	
LOWER MONUMENTAL		70			917		1			1,548
MCNARY				2		2,392	1			
MCNARY FISH BYPASS										
STRUBE										
THE DALLEs				489	1	52		2	59	39
TOTAL CORPS	18	3,156	1,506	956	1,853	3,213	7,490	602	3,750	1,591
LOWER SNAKE F AND W										
				310			17	3	1	

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	18	3,156	1,567	1,506	1,853	3,213	7,536	6,714	5,472	1,591
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BPA BORROWING

BPA PROGRAM
 BPA CONSERVATION
 FISH, WILDLIFE & ENV
 BUREAU DIRECT FUND
 IRRIGATION ASSISTANC
 PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	22,481	23,637	23,637	22,512	23,637	23,637	22,280	23,637	23,637	22,842
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0TOTAL BPA BORROWING	-22,481	-23,637	-23,637	-22,512	-23,637	-23,637	-22,280	-23,637	-23,637	-22,842
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TOTALS	-22,463	-20,481	-22,070	-21,006	-21,784	-20,424	-14,744	-16,923	-18,165	-21,251
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2050	2051	2052	2053
BUREAU OF RECLAMATION				
BOISE			668	
COLUMBIA BASIN			1,264	1,568
COLUMBIA BASIN - 3RD				
HUNGRY HORSE				1,797
MINIDOKA			195	
YAKIMA-CHANDLER				
YAKIMA-ROZA				
TOTAL BUREAU			2,127	3,365
CORPS OF ENGINEERS				
ALBENI FALLS		4		
BONNEVILLE		1,903	2,192	935
BONNEVILLE - 2ND POW				
CHIEF JOSEPH				17
COUGAR				
COLUMBIA RIVER FISH				
DETROIT-BIG CLIFF	1			
DWORSHAK	1			350
GREEN PETER-FOSTER		1		
HILLS CREEK			28	
ICE HARBOR FISH BYPA				
ICE HARBOR	208	1	816	765
JOHN DAY	1,504			
LIBBY		138		2
LITTLE GOOSE FISH BY				
LITTLE GOOSE		1,252		1
LOWER GRANITE FISH B				
LOWER MONUMENTAL FIS				
LOOKOUT POINT-DEXTER		1		
LOST CREEK			2	
LOWER GRANITE	533		1	13
LOWER MONUMENTAL				70
MCNARY		863		1
MCNARY FISH BYPASS				
STRUBE				
THE DALLES	1			7
TOTAL CORPS	2,248	4,163	3,039	2,161
LOWER SNAKE F AND W				85

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	2,248	4,163	5,166	5,611
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BPA BORROWING

BPA PROGRAM
BPA CONSERVATION
FISH, WILDLIFE & ENV
BUREAU DIRECT FUND
IRRIGATION ASSISTANC
PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	23,637	23,637	22,567	23,637
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0TOTAL BPA BORROWING	-23,637	-23,637	-22,567	-23,637
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TOTALS	-21,389	-19,474	-17,401	-18,026
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

TOTALS	
BUREAU OF RECLAMATION	
BOISE	7,153
COLUMBIA BASIN	172,079
COLUMBIA BASIN - 3RD	603,163
HUNGRY HORSE	20,301
MINIDOKA	82,149
YAKIMA-CHANDLER	1,161
YAKIMA-ROZA	334
TOTAL BUREAU	886,340
CORPS OF ENGINEERS	
ALBENI FALLS	12,215
BONNEVILLE	372,868
BONNEVILLE - 2ND POW	502,444
CHIEF JOSEPH	388,618
COUGAR	9,839
COLUMBIA RIVER FISH	876,587
DETROIT-BIG CLIFF	28,735
DWORSHAK	176,235
GREEN PETER-FOSTER	6,084
HILLS CREEK	9,050
ICE HARBOR FISH BYPA	
ICE HARBOR	138,220
JOHN DAY	185,367
LIBBY	295,404
LITTLE GOOSE FISH BY	
LITTLE GOOSE	202,087
LOWER GRANITE FISH B	
LOWER MONUMENTAL FIS	
LOOKOUT POINT-DEXTER	13,966
LOST CREEK	18,738
LOWER GRANITE	236,671
LOWER MONUMENTAL	146,041
MCNARY	151,760
MCNARY FISH BYPASS	
STRUBE	
THE DALLES	177,435
TOTAL CORPS	3,948,364
LOWER SNAKE F AND W	343,927
TOTAL APPROPRIATIONS	5,178,631

BONNEVILLE POWER ADM

BPA BORROWING

BPA PROGRAM	32,451
BPA CONSERVATION	491,212
FISH, WILDLIFE & ENV	219,427
BUREAU DIRECT FUND	464,438
IRRIGATION ASSISTANC	
PREMIUMS	17,396
0LESS	
0 AFUDC	
0 INTEREST INCOME	1,107,581
0TOTAL BPA BORROWING	117,343

TOTALS	5,295,974

**Application of Amortization
Generation
FY 2003 Current Repayment Study**

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APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2001	COLUMBIA BASIN	1956	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1956	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1957	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1957	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1958	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1958	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1959	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1959	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1960	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1960	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1961	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1961	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1962	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1962	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1963	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1963	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1964	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1964	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1965	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1965	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1966	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1966	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1967	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1967	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1968	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1968	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1969	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1969	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1970	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1970	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1971	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1971	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1972	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1972	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1973	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1973	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1974	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1974	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1975	2001	258	258	.06710	R	258

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
COLUMBIA BASIN	1975	2001	48	48	.06710	R	48
COLUMBIA BASIN	1976	2001	259	259	.06710	R	259
COLUMBIA BASIN	1976	2001	48	48	.06710	R	48
COLUMBIA BASIN	1977	2001	258	258	.06710	R	258
COLUMBIA BASIN	1977	2001	48	48	.06710	R	48
COLUMBIA BASIN	1978	2001	258	258	.06710	R	258
COLUMBIA BASIN	1978	2001	48	48	.06710	R	48
COLUMBIA BASIN	1979	2001	258	258	.06710	R	258
COLUMBIA BASIN	1979	2001	48	48	.06710	R	48
COLUMBIA BASIN	1980	2001	258	258	.06710	R	258
COLUMBIA BASIN	1980	2001	48	48	.06710	R	48
COLUMBIA BASIN	1981	2001	259	259	.06710	R	259
COLUMBIA BASIN	1981	2001	48	48	.06710	R	48
COLUMBIA BASIN	1982	2001	258	258	.06710	R	258
COLUMBIA BASIN	1982	2001	48	48	.06710	R	48
COLUMBIA BASIN	1983	2001	258	258	.06710	R	258
COLUMBIA BASIN	1983	2001	48	48	.06710	R	48
COLUMBIA BASIN	1985	2001	236	236	.06710		236
COLUMBIA BASIN	1985	2001	11	11	.06710		11
COLUMBIA BASIN	1955	2001	258	258	.06710	R	258
COLUMBIA BASIN	1954	2001	48	48	.06710	R	48
COLUMBIA BASIN	1954	2001	258	258	.06710	R	258
BOISE	1986	2001	89	89	.06710		89
COLUMBIA BASIN	1986	2001	127	127	.06710		127
COLUMBIA BASIN	1955	2001	48	48	.06710	R	48
COLUMBIA BASIN	1987	2001	13	13	.06710		13
COLUMBIA BASIN	1951	2001	7,719	7,719	.06710		7,719
COLUMBIA BASIN	1951	2001	1,437	1,437	.06710		1,437
COLUMBIA BASIN	1993	2001	45	45	.06710		45
COLUMBIA BASIN	1952	2001	258	258	.06710	R	258
COLUMBIA BASIN	1952	2001	48	48	.06710	R	48
COLUMBIA BASIN	1953	2001	258	258	.06710	R	258
COLUMBIA BASIN	1953	2001	48	48	.06710	R	48
GREEN PETER-FOSTER	1968	2018	12,180	10,528	.07280		10,528
ICE HARBOR	1995	2019	849	849	.07270		849
ICE HARBOR	1995	2019	171	171	.07270		171
ICE HARBOR	1995	2019	84	84	.07270		84
LOWER MONUMENTAL	1969	2019	25,083	25,083	.07270		22,681
TOTAL							53,787

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2002	BPA CONSERVATION	1989	2002	66,000	66,000	.08650		66,000
	LOWER MONUMENTAL	1969	2019	25,083	2,402	.07270		2,402
	JOHN DAY	1969	2019	96,104	96,104	.07270		38,999
	TOTAL							107,401
2003	FISH, WILDLIFE & ENVIRONMENTAL	1999	2003	20,000	20,000	.06300		20,000
	BPA PROGRAM	1996	2003	5,622	5,622	.05900		5,622
	HUNGRY HORSE	1955	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	1	1	.06840	R	1
	HUNGRY HORSE	1957	2003	18	18	.06840	R	18
	HUNGRY HORSE	1957	2003	1	1	.06840	R	1
	HUNGRY HORSE	1958	2003	18	18	.06840	R	18
	HUNGRY HORSE	1958	2003	1	1	.06840	R	1
	HUNGRY HORSE	1959	2003	18	18	.06840	R	18
	HUNGRY HORSE	1959	2003	1	1	.06840	R	1
	HUNGRY HORSE	1960	2003	18	18	.06840	R	18
	HUNGRY HORSE	1960	2003	1	1	.06840	R	1
	HUNGRY HORSE	1961	2003	18	18	.06840	R	18
	HUNGRY HORSE	1961	2003	1	1	.06840	R	1
	HUNGRY HORSE	1962	2003	18	18	.06840	R	18
	HUNGRY HORSE	1962	2003	1	1	.06840	R	1
	HUNGRY HORSE	1963	2003	18	18	.06840	R	18
	HUNGRY HORSE	1963	2003	1	1	.06840	R	1
	HUNGRY HORSE	1964	2003	17	17	.06840	R	17
	HUNGRY HORSE	1964	2003	1	1	.06840	R	1
	HUNGRY HORSE	1965	2003	17	17	.06840	R	17
	HUNGRY HORSE	1965	2003	1	1	.06840	R	1
	HUNGRY HORSE	1966	2003	17	17	.06840	R	17
	HUNGRY HORSE	1966	2003	1	1	.06840	R	1
	HUNGRY HORSE	1967	2003	18	18	.06840	R	18
	HUNGRY HORSE	1967	2003	1	1	.06840	R	1
	HUNGRY HORSE	1968	2003	18	18	.06840	R	18
	HUNGRY HORSE	1968	2003	1	1	.06840	R	1
	HUNGRY HORSE	1953	2003	490	490	.06840		490
	HUNGRY HORSE	1953	2003	16,359	16,359	.06840		16,359
	DETROIT-BIG CLIFF	1953	2003	3,078	3,078	.06840		3,078
	HUNGRY HORSE	1969	2003	18	18	.06840	R	18

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
HUNGRY HORSE	1969	2003	1	1	.06840	R	1
HUNGRY HORSE	1955	2003	1	1	.06840	R	1
HUNGRY HORSE	1970	2003	18	18	.06840	R	18
HUNGRY HORSE	1970	2003	1	1	.06840	R	1
HUNGRY HORSE	1971	2003	18	18	.06840	R	18
HUNGRY HORSE	1971	2003	1	1	.06840	R	1
HUNGRY HORSE	1972	2003	18	18	.06840	R	18
HUNGRY HORSE	1972	2003	1	1	.06840	R	1
HUNGRY HORSE	1973	2003	18	18	.06840	R	18
HUNGRY HORSE	1973	2003	1	1	.06840	R	1
HUNGRY HORSE	1974	2003	17	17	.06840	R	17
HUNGRY HORSE	1974	2003	1	1	.06840	R	1
HUNGRY HORSE	1975	2003	17	17	.06840	R	17
HUNGRY HORSE	1975	2003	1	1	.06840	R	1
HUNGRY HORSE	1976	2003	10	10	.06840	R	10
HUNGRY HORSE	1976	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	17	17	.06840	R	17
HUNGRY HORSE	1977	2003	18	18	.06840	R	18
HUNGRY HORSE	1977	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	1	1	.06840	R	1
HUNGRY HORSE	1978	2003	18	18	.06840	R	18
HUNGRY HORSE	1978	2003	1	1	.06840	R	1
HUNGRY HORSE	1979	2003	18	18	.06840	R	18
HUNGRY HORSE	1979	2003	1	1	.06840	R	1
HUNGRY HORSE	1980	2003	18	18	.06840	R	18
HUNGRY HORSE	1980	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1982	2003	1	1	.06840	R	1
HUNGRY HORSE	1983	2003	12	12	.06840	R	12
HUNGRY HORSE	1983	2003	1	1	.06840	R	1
JOHN DAY	1969	2019	96,104	57,105	.07270		25,605
DETROIT-BIG CLIFF	1955	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1987	2004	3	3	.06880		3
DETROIT-BIG CLIFF	1985	2004	6	6	.06880		6
DETROIT-BIG CLIFF	1983	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1982	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1981	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1980	2004	19	19	.06880	R	19

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APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
MCNARY	1954	2004	35,757	35,757	.06880		1,216
TOTAL							72,984
2004							
BPA PROGRAM	1997	2004	7,400	7,400	.06800		7,400
BUREAU DIRECT FUND	1999	2004	20,000	20,000	.06400		20,000
DETROIT-BIG CLIFF	1956	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1957	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1958	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1959	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1960	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1961	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1962	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1963	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1964	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1965	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1966	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1967	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1968	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1969	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1970	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1971	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1972	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1973	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1974	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1975	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1976	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1954	2004	20,162	20,162	.06880		20,162
DETROIT-BIG CLIFF	1977	2004	18	18	.06880	R	18
DETROIT-BIG CLIFF	1978	2004	19	19	.06880	R	19
DETROIT-BIG CLIFF	1979	2004	18	18	.06880	R	18
MCNARY	1954	2004	35,757	34,541	.06880		34,541
JOHN DAY	1969	2019	96,104	31,500	.07270		1
TOTAL							82,548

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2005	MCNARY	1955	2005	53,493	53,493	.06910		53,493
	ALBENI FALLS	1956	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1956	2005	52	52	.06910	R	52
	ALBENI FALLS	1957	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1957	2005	51	51	.06910	R	51
	ALBENI FALLS	1958	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1958	2005	51	51	.06910	R	51
	ALBENI FALLS	1959	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1955	2005	28,417	28,417	.06910		28,417
	LOOKOUT POINT-DEXTER	1959	2005	51	51	.06910	R	51
	ALBENI FALLS	1960	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1960	2005	51	51	.06910	R	51
	ALBENI FALLS	1961	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1961	2005	52	52	.06910	R	52
	ALBENI FALLS	1962	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1962	2005	51	51	.06910	R	51
	ALBENI FALLS	1963	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1963	2005	51	51	.06910	R	51
	ALBENI FALLS	1964	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1964	2005	51	51	.06910	R	51
	ALBENI FALLS	1965	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1965	2005	51	51	.06910	R	51
	ALBENI FALLS	1966	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1966	2005	51	51	.06910	R	51
	ALBENI FALLS	1967	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1967	2005	52	52	.06910	R	52
	ALBENI FALLS	1968	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1968	2005	51	51	.06910	R	51
	ALBENI FALLS	1969	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1969	2005	51	51	.06910	R	51
	ALBENI FALLS	1970	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1970	2005	51	51	.06910	R	51
	ALBENI FALLS	1971	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1971	2005	51	51	.06910	R	51
	ALBENI FALLS	1972	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1972	2005	51	51	.06910	R	51
	ALBENI FALLS	1973	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1973	2005	52	52	.06910	R	52
	ALBENI FALLS	1974	2005	11	11	.06910	R	11

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
LOOKOUT POINT-DEXTER	1974	2005	51	51	.06910	R	51
ALBENI FALLS	1975	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1975	2005	51	51	.06910	R	51
ALBENI FALLS	1976	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1976	2005	51	51	.06910	R	51
ALBENI FALLS	1977	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1977	2005	51	51	.06910	R	51
ALBENI FALLS	1978	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1978	2005	51	51	.06910	R	51
ALBENI FALLS	1979	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1979	2005	52	52	.06910	R	52
ALBENI FALLS	1980	2005	11	11	.06910	R	11
ALBENI FALLS	1955	2005	16,854	16,854	.06910		16,854
LOOKOUT POINT-DEXTER	1980	2005	51	51	.06910	R	51
ALBENI FALLS	1981	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1981	2005	51	51	.06910	R	51
ALBENI FALLS	1982	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1982	2005	51	51	.06910	R	51
ALBENI FALLS	1983	2005	11	11	.06910	R	11
CHIEF JOSEPH	1955	2005	2,262	2,262	.06910		2,262
LOOKOUT POINT-DEXTER	1983	2005	51	51	.06910	R	51
ALBENI FALLS	1985	2005	7	7	.06910		7
LOOKOUT POINT-DEXTER	1985	2005	52	52	.06910		52
ALBENI FALLS	1986	2005	293	293	.06910		293
LOOKOUT POINT-DEXTER	1986	2005	42	42	.06910		42
ALBENI FALLS	1987	2005	12	12	.06910		12
LOOKOUT POINT-DEXTER	1987	2005	9	9	.06910		9
BUREAU DIRECT FUND	2000	2045	95,369	95,369	.07540		15,459
YAKIMA-ROZA	1987	2008	2	2	.07020		2
MINIDOKA	1987	2008	16	16	.07020		16
YAKIMA-ROZA	1986	2008	6	6	.07020		6
MINIDOKA	1986	2008	21	21	.07020		21
YAKIMA-ROZA	1985	2008	69	69	.07020		69
MINIDOKA	1985	2008	21	21	.07020		21
CHIEF JOSEPH	1985	2008	46	46	.07020		46
MINIDOKA	1983	2008	20	20	.07020	R	20
MINIDOKA	1983	2008	65	65	.07020	R	65
CHIEF JOSEPH	1983	2008	224	224	.07020	R	224
MINIDOKA	1982	2008	19	19	.07020	R	19

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
MINIDOKA	1982	2008	75	75	.07020	R	75
CHIEF JOSEPH	1982	2008	223	223	.07020	R	223
MINIDOKA	1981	2008	20	20	.07020	R	20
MINIDOKA	1981	2008	75	75	.07020	R	75
CHIEF JOSEPH	1981	2008	223	223	.07020	R	223
MINIDOKA	1980	2008	20	20	.07020	R	20
MINIDOKA	1980	2008	75	75	.07020	R	75
CHIEF JOSEPH	1980	2008	223	223	.07020	R	223
MINIDOKA	1979	2008	19	19	.07020	R	19
MINIDOKA	1979	2008	75	75	.07020	R	75
CHIEF JOSEPH	1979	2008	223	223	.07020	R	223
MINIDOKA	1978	2008	20	20	.07020	R	20
MINIDOKA	1978	2008	75	75	.07020	R	75
CHIEF JOSEPH	1978	2008	224	224	.07020	R	224
MINIDOKA	1977	2008	56	56	.07020	R	56
CHIEF JOSEPH	1977	2008	223	223	.07020	R	223
CHIEF JOSEPH	1976	2008	223	223	.07020	R	223
CHIEF JOSEPH	1975	2008	223	223	.07020	R	223
CHIEF JOSEPH	1974	2008	223	223	.07020	R	223
CHIEF JOSEPH	1973	2008	224	224	.07020	R	224
CHIEF JOSEPH	1972	2008	223	223	.07020	R	223
CHIEF JOSEPH	1971	2008	223	223	.07020	R	223
CHIEF JOSEPH	1970	2008	223	223	.07020	R	223
THE DALLES	1996	2008	196	196	.07020		196
CHIEF JOSEPH	1969	2008	223	223	.07020	R	223
CHIEF JOSEPH	1968	2008	224	224	.07020	R	224
CHIEF JOSEPH	1967	2008	223	223	.07020	R	223
CHIEF JOSEPH	1966	2008	223	223	.07020	R	223
CHIEF JOSEPH	1965	2008	223	223	.07020	R	223
CHIEF JOSEPH	1964	2008	223	223	.07020	R	223
CHIEF JOSEPH	1963	2008	224	224	.07020	R	224
CHIEF JOSEPH	1962	2008	223	223	.07020	R	223
CHIEF JOSEPH	1961	2008	223	223	.07020	R	223
CHIEF JOSEPH	1960	2008	223	223	.07020	R	223
CHIEF JOSEPH	1959	2008	223	223	.07020	R	223
YAKIMA-ROZA	1958	2008	161	161	.07020		161
YAKIMA-ROZA	1958	2008	533	533	.07020		533
THE DALLES	1958	2008	33,988	33,988	.07020		16,642
TOTAL							----- 142,539

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(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2006	CHIEF JOSEPH	1956	2006	13,643	13,643	.06950		13,643
	MCNARY	1956	2006	38,748	38,748	.06950		38,748
	DETROIT-BIG CLIFF	1996	2006	24	24	.06950		24
	MCNARY	1996	2006	778	778	.06950		778
	BOISE	1996	2006	7	7	.06950		7
	THE DALLES	1958	2008	33,988	17,346	.07020		17,346
	CHIEF JOSEPH	1958	2008	31,901	31,901	.07020		31,901
	MCNARY	1986	2007	454	454	.06980		454
	MCNARY	1985	2007	557	557	.06980		557
	MCNARY	1983	2007	468	468	.06980	R	468
	MCNARY	1982	2007	467	467	.06980	R	467
	MCNARY	1981	2007	468	468	.06980	R	468
	MCNARY	1980	2007	468	468	.06980	R	468
	MCNARY	1979	2007	468	468	.06980	R	468
	MCNARY	1978	2007	468	468	.06980	R	468
	MCNARY	1977	2007	467	467	.06980	R	467
	MCNARY	1976	2007	468	468	.06980	R	468
	MCNARY	1975	2007	468	468	.06980	R	468
	MCNARY	1974	2007	468	468	.06980	R	468
	MCNARY	1973	2007	467	467	.06980	R	467
	MCNARY	1972	2007	468	468	.06980	R	468
	MCNARY	1971	2007	468	468	.06980	R	468
	MCNARY	1987	2007	24	24	.06980		24
	MCNARY	1970	2007	468	468	.06980	R	468
	MCNARY	1969	2007	468	468	.06980	R	468
	MCNARY	1968	2007	468	468	.06980	R	468
	MCNARY	1967	2007	467	467	.06980	R	467
	MCNARY	1966	2007	468	468	.06980	R	468
	MCNARY	1965	2007	468	468	.06980	R	468
	MCNARY	1964	2007	468	468	.06980	R	468
	MCNARY	1963	2007	468	468	.06980	R	468
	MCNARY	1962	2007	467	467	.06980	R	467
	MCNARY	1961	2007	468	468	.06980	R	468
	MCNARY	1960	2007	468	468	.06980	R	468
	MCNARY	1959	2007	468	468	.06980	R	468
	MCNARY	1958	2007	468	468	.06980	R	468
	MCNARY	1957	2007	24,985	24,985	.06980		3,030
	TOTAL							----- 118,675

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	(ALL AMOUNT IN \$1000)							
+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2007	CHIEF JOSEPH	1957	2007	39,586	39,586	.06980		39,586
	MCNARY	1957	2007	24,985	21,955	.06980		21,955
	BOISE	1997	2007	9	9	.06950		9
	MINIDOKA	1997	2007	66	66	.06950		66
	HUNGRY HORSE	1997	2007	154	154	.06950		154
	FISH, WILDLIFE & ENVIRONMENTAL	1993	2008	20,000	20,000	.06950		20,000
	BUREAU DIRECT FUND	1998	2008	25,000	25,000	.06000		25,000
	TOTAL							106,770
2008	BPA CONSERVATION	1998	2008	104,300	104,300	.05300		104,300
	BUREAU DIRECT FUND	2000	2045	95,369	79,910	.07540		1
	TOTAL							104,301
2009	BPA CONSERVATION	1998	2009	37,700	37,700	.06000		37,700
	BPA CONSERVATION	1989	2009	40,000	40,000	.08550		40,000
	THE DALLES	1959	2009	40,415	40,415	.07060		40,415
	BUREAU DIRECT FUND	2000	2045	95,369	79,909	.07540		2,144
	TOTAL							120,259
2010	MINIDOKA	2000	2010	81	81	.06520		81
	MCNARY	1995	2010	509	509	.07090		509
	THE DALLES	1960	2010	39,179	39,179	.07090		39,179
	FISH, WILDLIFE & ENVIRONMENTAL	1995	2010	22,900	22,900	.07200		22,900
	CHIEF JOSEPH	1995	2010	15	15	.07090		15
	ALBENI FALLS	1995	2010	17	17	.07090		17
	BONNEVILLE	1995	2010	25	25	.07090	R	25
	BUREAU DIRECT FUND	2000	2045	95,369	77,765	.07540		65,599
	TOTAL							128,325
2011	BPA CONSERVATION	1996	2011	30,000	30,000	.06700		30,000
	THE DALLES	1986	2011	95	95	.07130		95
	MINIDOKA	2001	2011	80	80	.06190		80
	BOISE	2001	2011	4	4	.06190		4
	THE DALLES	1961	2011	9,492	9,492	.07130		9,492
	BOISE	2001	2011	27	27	.06190		27
	THE DALLES	1962	2011	56	56	.07130	R	56
	THE DALLES	1963	2011	57	57	.07130	R	57
	THE DALLES	1964	2011	57	57	.07130	R	57

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
THE DALLES	1985	2011	95	95	.07130		95
THE DALLES	1965	2011	56	56	.07130	R	56
THE DALLES	1966	2011	57	57	.07130	R	57
THE DALLES	1967	2011	57	57	.07130	R	57
THE DALLES	1968	2011	56	56	.07130	R	56
THE DALLES	1996	2011	457	457	.07130		457
MINIDOKA	1996	2011	54	54	.07130		54
THE DALLES	1969	2011	57	57	.07130	R	57
THE DALLES	1970	2011	57	57	.07130	R	57
THE DALLES	1971	2011	56	56	.07130	R	56
MCNARY	1996	2011	3	3	.07130		3
THE DALLES	1972	2011	57	57	.07130	R	57
THE DALLES	1987	2011	1,417	1,417	.07130		1,417
THE DALLES	1973	2011	57	57	.07130	R	57
THE DALLES	1983	2011	56	56	.07130	R	56
THE DALLES	1974	2011	56	56	.07130	R	56
THE DALLES	1975	2011	57	57	.07130	R	57
LOWER GRANITE	1996	2011	255	255	.07130		255
THE DALLES	1976	2011	57	57	.07130	R	57
THE DALLES	1977	2011	56	56	.07130	R	56
THE DALLES	1978	2011	57	57	.07130	R	57
THE DALLES	1979	2011	57	57	.07130	R	57
THE DALLES	1980	2011	56	56	.07130	R	56
JOHN DAY	1996	2011	237	237	.07130		237
THE DALLES	1981	2011	57	57	.07130	R	57
DWORSHAK	1996	2011	107	107	.07130		107
THE DALLES	1982	2011	57	57	.07130	R	57
BUREAU DIRECT FUND	2000	2045	95,369	12,166	.07540		12,166
BPA PROGRAM	2000	2045	4,100	4,100	.07540		4,100
JOHN DAY	1969	2019	96,104	31,499	.07270		31,499
BONNEVILLE	1995	2020	22	22	.07250	R	22
LOWER MONUMENTAL	1982	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1981	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1980	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1979	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1978	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1977	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1983	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1976	2020	214	214	.07250	R	214

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
LOWER MONUMENTAL	1986	2020	132	132	.07250		132
LOWER MONUMENTAL	1975	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1974	2020	214	214	.07250	R	214
GREEN PETER-FOSTER	1995	2020	11	11	.07250		11
GREEN PETER-FOSTER	1995	2020	24	24	.07250		24
LOWER MONUMENTAL	1973	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1972	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1971	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1970	2020	51,218	51,218	.07250		25,210

TOTAL							119,515
2012							
HILLS CREEK	1985	2012	6	6	.07160		6
HILLS CREEK	1983	2012	13	13	.07160	R	13
MINIDOKA	2002	2012	80	80	.05940		80
HILLS CREEK	1962	2012	9,264	9,264	.07160		9,264
ICE HARBOR	1962	2012	44,308	44,308	.07160		44,308
ICE HARBOR	1962	2012	493	493	.07160		493
ICE HARBOR	1987	2012	3	3	.07160		3
HILLS CREEK	1963	2012	12	12	.07160	R	12
BOISE	2002	2012	27	27	.05940		27
ICE HARBOR	1963	2012	46	46	.07160	R	46
ICE HARBOR	1963	2012	1	1	.07160	R	1
HILLS CREEK	1964	2012	13	13	.07160	R	13
ICE HARBOR	1964	2012	46	46	.07160	R	46
ICE HARBOR	1964	2012	1	1	.07160	R	1
ICE HARBOR	1985	2012	41	41	.07160		41
HILLS CREEK	1965	2012	13	13	.07160	R	13
ICE HARBOR	1965	2012	46	46	.07160	R	46
ICE HARBOR	1982	2012	1	1	.07160	R	1
ICE HARBOR	1982	2012	46	46	.07160	R	46
ICE HARBOR	1965	2012	1	1	.07160	R	1
HILLS CREEK	1982	2012	13	13	.07160	R	13
HILLS CREEK	1966	2012	13	13	.07160	R	13
ICE HARBOR	1966	2012	46	46	.07160	R	46
ICE HARBOR	1966	2012	1	1	.07160	R	1
ICE HARBOR	1983	2012	46	46	.07160	R	46
HILLS CREEK	1967	2012	13	13	.07160	R	13
ICE HARBOR	1967	2012	46	46	.07160	R	46
ICE HARBOR	1967	2012	1	1	.07160	R	1

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
HILLS CREEK	1968	2012	13	13	.07160	R	13
ICE HARBOR	1968	2012	46	46	.07160	R	46
ICE HARBOR	1968	2012	1	1	.07160	R	1
HILLS CREEK	1969	2012	13	13	.07160	R	13
ICE HARBOR	1983	2012	1	1	.07160	R	1
ICE HARBOR	1969	2012	46	46	.07160	R	46
ICE HARBOR	1969	2012	1	1	.07160	R	1
HILLS CREEK	1970	2012	13	13	.07160	R	13
ICE HARBOR	1970	2012	46	46	.07160	R	46
ICE HARBOR	1970	2012	1	1	.07160	R	1
HILLS CREEK	1971	2012	13	13	.07160	R	13
ICE HARBOR	1971	2012	46	46	.07160	R	46
ICE HARBOR	1971	2012	1	1	.07160	R	1
HILLS CREEK	1972	2012	13	13	.07160	R	13
ICE HARBOR	1981	2012	1	1	.07160	R	1
ICE HARBOR	1981	2012	46	46	.07160	R	46
ICE HARBOR	1972	2012	46	46	.07160	R	46
ICE HARBOR	1972	2012	1	1	.07160	R	1
HILLS CREEK	1981	2012	13	13	.07160	R	13
HILLS CREEK	1973	2012	13	13	.07160	R	13
ICE HARBOR	1973	2012	46	46	.07160	R	46
ICE HARBOR	1973	2012	1	1	.07160	R	1
HILLS CREEK	1974	2012	13	13	.07160	R	13
ICE HARBOR	1974	2012	46	46	.07160	R	46
ICE HARBOR	1974	2012	1	1	.07160	R	1
HILLS CREEK	1975	2012	13	13	.07160	R	13
ICE HARBOR	1975	2012	46	46	.07160	R	46
ICE HARBOR	1975	2012	1	1	.07160	R	1
HILLS CREEK	1976	2012	13	13	.07160	R	13
ICE HARBOR	1976	2012	46	46	.07160	R	46
ICE HARBOR	1976	2012	1	1	.07160	R	1
ICE HARBOR	1986	2012	137	137	.07160		137
HILLS CREEK	1977	2012	13	13	.07160	R	13
ICE HARBOR	1977	2012	46	46	.07160	R	46
ICE HARBOR	1977	2012	1	1	.07160	R	1
HILLS CREEK	1978	2012	13	13	.07160	R	13
ICE HARBOR	1978	2012	46	46	.07160	R	46
ICE HARBOR	1978	2012	1	1	.07160	R	1
HILLS CREEK	1979	2012	13	13	.07160	R	13

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ICE HARBOR	1980	2012	1	1	.07160	R	1
ICE HARBOR	1980	2012	46	46	.07160	R	46
ICE HARBOR	1979	2012	46	46	.07160	R	46
ICE HARBOR	1979	2012	1	1	.07160	R	1
HILLS CREEK	1980	2012	13	13	.07160	R	13
LOWER MONUMENTAL	1970	2020	51,218	26,008	.07250		26,008
LITTLE GOOSE	1970	2020	21,301	21,301	.07250		14,994
TOTAL							96,620
2013 BPA CONSERVATION	1998	2013	52,800	52,800	.05600		52,800
FISH, WILDLIFE & ENVIRONMENTAL	1998	2013	60,000	60,000	.06100		60,000
MINIDOKA	2003	2013	80	80	.05750		80
BOISE	2003	2013	27	27	.05750		27
BPA CONSERVATION	1993	2013	40,000	40,000	.06750		40,000
LITTLE GOOSE	1970	2020	21,301	6,307	.07250		6,307
JOHN DAY	1970	2020	23,656	23,656	.07250		23,656
BONNEVILLE	1995	2020	20	20	.07250		20
LOWER MONUMENTAL	1987	2020	3	3	.07250		3
JOHN DAY	1995	2020	79	79	.07250		79
LOWER MONUMENTAL	1985	2020	8	8	.07250		8
COUGAR	1980	2014	20	20	.07230	R	20
COUGAR	1979	2014	20	20	.07230	R	20
COUGAR	1978	2014	20	20	.07230	R	20
COUGAR	1983	2014	20	20	.07230	R	20
COUGAR	1977	2014	20	20	.07230	R	20
COUGAR	1976	2014	20	20	.07230	R	20
COUGAR	1975	2014	20	20	.07230	R	20
COUGAR	1981	2014	20	20	.07230	R	20
COUGAR	1974	2014	19	19	.07230	R	19
COUGAR	1986	2014	104	104	.07230		104
COUGAR	1973	2014	20	20	.07230	R	20
COUGAR	1972	2014	20	20	.07230	R	20
COUGAR	1971	2014	20	20	.07230	R	20
COUGAR	1970	2014	20	20	.07230	R	20
COUGAR	1969	2014	20	20	.07230	R	20
COUGAR	1968	2014	20	20	.07230	R	20
COUGAR	1967	2014	20	20	.07230	R	20
COUGAR	1982	2014	20	20	.07230	R	20
COUGAR	1966	2014	20	20	.07230	R	20

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	(ALL AMOUNT IN \$1000)							
	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	COUGAR	1965	2014	20	20	.07230	R	20
	COUGAR	1964	2014	9,042	9,042	.07230		9,042
	COUGAR	1985	2014	1	1	.07230		1
	COUGAR	1987	2014	45	45	.07230		45
	LITTLE GOOSE	1979	2021	29	29	.07230	R	29
	LITTLE GOOSE	1978	2021	28	28	.07230	R	28
	LITTLE GOOSE	1980	2021	28	28	.07230	R	28
	LITTLE GOOSE	1977	2021	29	29	.07230	R	29
	LITTLE GOOSE	1976	2021	28	28	.07230	R	28
	LITTLE GOOSE	1983	2021	29	29	.07230	R	29
	LITTLE GOOSE	1975	2021	29	29	.07230	R	29
	LITTLE GOOSE	1974	2021	28	28	.07230	R	28
	LOWER MONUMENTAL	1996	2021	37	37	.07230		37
	LOWER MONUMENTAL	1996	2021	51	51	.07230		51
	LITTLE GOOSE	1973	2021	29	29	.07230	R	29
	LITTLE GOOSE	1972	2021	28	28	.07230	R	28
	DWORSHAK	1996	2021	26	26	.07230		26
	LITTLE GOOSE	1971	2021	42,962	42,962	.07230		42,962
	JOHN DAY	1971	2021	34,974	34,974	.07230		25,853
	TOTAL							261,765
2014	BPA PROGRAM	1999	2014	11,080	11,080	.05900		11,080
	BPA CONSERVATION	1994	2014	50,000	50,000	.06750		50,000
	JOHN DAY	1971	2021	34,974	9,121	.07230		9,121
	LITTLE GOOSE	1981	2021	29	29	.07230	R	29
	DWORSHAK	1996	2021	184	184	.07230		184
	LITTLE GOOSE	1987	2021	6	6	.07230		6
	LITTLE GOOSE	1982	2021	28	28	.07230	R	28
	LITTLE GOOSE	1986	2021	239	239	.07230		239
	LITTLE GOOSE	1985	2021	174	174	.07230		174
	LIBBY	1997	2022	432	432	.07230		432
	ICE HARBOR	1997	2022	66	66	.07230		66
	BONNEVILLE	1997	2022	122	122	.07230		122
	JOHN DAY	1997	2022	133	133	.07230		133
	JOHN DAY	1986	2022	3,227	3,227	.07210		3,227
	JOHN DAY	1992	2022	19	19	.07210		19
	JOHN DAY	1972	2022	11,502	11,502	.07210		11,502
	JOHN DAY	1985	2022	6,490	6,490	.07210		6,490
	JOHN DAY	1990	2022	37	37	.07210		37

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JOHN DAY	1989	2022	30	30	.07210		30
JOHN DAY	1987	2022	706	706	.07210		706
YAKIMA-CHANDLER	1961	2022	1	1	.07210	R	1
YAKIMA-CHANDLER	1960	2022	1	1	.07210	R	1
YAKIMA-CHANDLER	1959	2022	1	1	.07210	R	1
YAKIMA-CHANDLER	1986	2022	455	455	.07210		455
YAKIMA-CHANDLER	1956	2022	216	216	.07210		216
YAKIMA-CHANDLER	1956	2022	193	193	.07210		193
DWORSHAK	1978	2023	3	3	.07190	R	3
DWORSHAK	1978	2023	518	518	.07190	R	518
DWORSHAK	1977	2023	3	3	.07190	R	3
DWORSHAK	1977	2023	518	518	.07190	R	518
DWORSHAK	1976	2023	3	3	.07190	R	3
DWORSHAK	1976	2023	518	518	.07190	R	518
DWORSHAK	1975	2023	3	3	.07190	R	3
DWORSHAK	1975	2023	518	518	.07190	R	518
DWORSHAK	1986	2023	197	197	.07190		197
DWORSHAK	1983	2023	3	3	.07190	R	3
DWORSHAK	1974	2023	3	3	.07190	R	3
DWORSHAK	1974	2023	515	515	.07190	R	515
THE DALLES	1973	2023	21,983	21,983	.07190		21,983
DWORSHAK	1981	2023	518	518	.07190	R	518
DWORSHAK	1981	2023	3	3	.07190	R	3
DWORSHAK	1973	2023	803	803	.07190		803
DWORSHAK	1973	2023	132,996	132,996	.07190		132,996
DWORSHAK	1980	2023	518	518	.07190	R	518
DWORSHAK	1979	2023	3	3	.07190	R	3
DWORSHAK	1979	2023	518	518	.07190	R	518
DWORSHAK	1983	2023	523	523	.07190	R	523
DWORSHAK	1980	2023	3	3	.07190	R	3
DWORSHAK	1982	2023	518	518	.07190	R	518
DWORSHAK	1982	2023	3	3	.07190	R	3
DWORSHAK	1987	2023	5	5	.07190		5
DWORSHAK	1985	2023	1,141	1,141	.07190		1,141
THE DALLES	1974	2024	7,268	7,268	.07170		7,268
LOWER GRANITE	1979	2025	510	510	.07160	R	510
LOWER GRANITE	1980	2025	510	510	.07160	R	510
LOWER GRANITE	1976	2025	510	510	.07160	R	510
LOWER GRANITE	1975	2025	117,645	117,645	.07160		50,598

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TOTAL							316,225
2015	FISH, WILDLIFE & ENVIRONMENTAL	2000	2015	27,000	27,000	.07240	27,000
	BPA CONSERVATION	1995	2015	85,000	85,000	.07500	85,000
	BUREAU DIRECT FUND	1995	2015	35,000	35,000	.07500	35,000
	LOWER GRANITE	1975	2025	117,645	67,047	.07160	67,047
	LIBBY	1975	2025	48,138	48,138	.07160	48,138
	COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	7,435	7,435	.07160	7,435
	COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	36,690	36,690	.07160	36,690
	LOWER GRANITE	1986	2025	215	215	.07160	215
	LOWER GRANITE	1983	2025	510	510	.07160	R 510
	LOWER GRANITE	1981	2025	510	510	.07160	R 510
	LOWER GRANITE	1987	2025	8	8	.07160	8
	LOWER GRANITE	1982	2025	510	510	.07160	R 510
	LOWER GRANITE	1995	2025	96	96	.07160	96
	LOWER GRANITE	1985	2025	328	328	.07160	328
	LOWER GRANITE	1978	2025	510	510	.07160	R 510
	LOWER GRANITE	1977	2025	510	510	.07160	R 510
	LIBBY	1978	2026	1,465	1,465	.07150	R 1,465
	LIBBY	1977	2026	1,465	1,465	.07150	R 1,465
	LIBBY	1979	2026	1,465	1,465	.07150	R 1,465
	LIBBY	1976	2026	153,432	153,432	.07150	15,648

TOTAL							329,550
2016	FISH, WILDLIFE & ENVIRONMENTAL	2001	2016	27,000	27,000	.06920	27,000
	BONNEVILLE	2011	2016	67,342	67,342	.05642	R 67,342
	LIBBY	1976	2026	153,432	137,784	.07150	137,784
	ICE HARBOR	1976	2026	228	228	.07150	228
	ICE HARBOR	1976	2026	20,472	20,472	.07150	20,472
	LIBBY	1980	2026	1,465	1,465	.07150	R 1,465
	COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	8,037	8,037	.07150	8,037
	COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	41,330	41,330	.07150	41,330
	LIBBY	1983	2026	1,465	1,465	.07150	R 1,465
	LIBBY	1981	2026	1,465	1,465	.07150	R 1,465
	MCNARY	1996	2026	74	74	.07150	74
	MCNARY	1996	2026	277	277	.07150	277
	LIBBY	1985	2026	518	518	.07150	518
	LIBBY	1989	2026	1	1	.07150	1
	LIBBY	1982	2026	1,465	1,465	.07150	R 1,465

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LIBBY	1987	2026	2	2	.07150		2
COLUMBIA BASIN	1996	2026	76	76	.07150		76
LIBBY	1986	2026	283	283	.07150		265
TOTAL							309,266
2017 FISH, WILDLIFE & ENVIRONMENTAL	2002	2017	34,732	34,732	.06690		34,732
BPA CONSERVATION	1996	2017	40,000	40,000	.07200		40,000
ICE HARBOR	2012	2017	14,209	14,209	.05642	R	14,209
LIBBY	1986	2026	283	18	.07150		18
ICE HARBOR	1985	2026	21	21	.07150		21
LOST CREEK	1980	2027	60	60	.07150	R	60
COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	7,964	7,964	.07150		7,964
COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	42,764	42,764	.07150		42,764
CHIEF JOSEPH	1977	2027	30,512	30,512	.07150		30,512
BONNEVILLE	1977	2027	15,670	15,670	.07150		15,670
LOST CREEK	1977	2027	13,413	13,413	.07150		13,413
LOST CREEK	1979	2027	60	60	.07150	R	60
LOST CREEK	1981	2027	60	60	.07150	R	60
LOST CREEK	1986	2027	6	6	.07150		6
LOST CREEK	1987	2027	4	4	.07150		4
LOST CREEK	1983	2027	60	60	.07150	R	60
LOST CREEK	1982	2027	60	60	.07150	R	60
LOST CREEK	1985	2027	12	12	.07150		12
LOST CREEK	1978	2027	58	58	.07150	R	58
LITTLE GOOSE	1978	2028	49,578	49,578	.07150		49,578
COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	7,896	7,896	.07150		7,896
COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	42,399	42,399	.07150		42,399
CHIEF JOSEPH	1978	2028	75,669	75,669	.07150		75,669
LITTLE GOOSE	1985	2028	47	47	.07150		47
LOWER GRANITE	1978	2028	40,611	40,611	.07150		40,611
COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	84,118	84,118	.07150		22,689
TOTAL							438,572

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2018	FISH, WILDLIFE & ENVIRONMENTAL	2003	2018	38,317	38,317	.06500		38,317
	LOWER SNAKE F AND W	2013	2018	50	50	.05642	R	50
	MCNARY	2011	2018	30	30	.05696	R	30
	LOWER SNAKE F AND W	2011	2018	593	593	.05696	R	593
	LOWER MONUMENTAL	2011	2018	24	24	.05696	R	24
	LOOKOUT POINT-DEXTER	2011	2018	16	16	.05696	R	16
	LIBBY	2011	2018	72	72	.05696	R	72
	ICE HARBOR	2011	2018	26,865	26,865	.05696	R	26,865
	BONNEVILLE	2011	2018	28,656	28,656	.05696	R	28,656
	COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	84,118	61,429	.07150		61,429
	CHIEF JOSEPH	1988	2029	2,722	2,722	.07150		2,722
	CHIEF JOSEPH	1985	2029	16,372	16,372	.07150		16,372
	LOWER GRANITE	1994	2029	1,551	1,551	.07150		1,551
	CHIEF JOSEPH	1989	2029	2,227	2,227	.07150		2,227
	LIBBY	1994	2029	152	152	.07150		152
	CHIEF JOSEPH	1986	2029	5,363	5,363	.07150		5,363
	CHIEF JOSEPH	1979	2029	60,079	60,079	.07150		60,079
	CHIEF JOSEPH	1990	2029	4,505	4,505	.07150		4,505
	COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	15,666	15,666	.07150		15,666
	LOWER MONUMENTAL	1985	2029	256	256	.07150		256
	LOWER MONUMENTAL	1979	2029	40,669	40,669	.07150		40,669
	CHIEF JOSEPH	1987	2029	3,036	3,036	.07150		3,036
	DWORSHAK	1995	2030	218	218	.07150		218
	COLUMBIA BASIN	1995	2030	25	25	.07150		25
	HUNGRY HORSE	1995	2030	536	536	.07150	R	536
	HUNGRY HORSE	1995	2030	1,195	1,195	.07150	R	1,195
	LIBBY	1995	2030	15	15	.07150	R	15
	LIBBY	1995	2030	41	41	.07150		41
	LIBBY	1995	2030	94	94	.07150	R	94
	LOWER GRANITE	1996	2031	206	206	.07150		206
	BONNEVILLE	1996	2031	22	22	.07150		22
	BONNEVILLE - 2ND POWER HOUSE	1981	2031	40,964	40,964	.07150		40,964
	BONNEVILLE - 2ND POWER HOUSE	1981	2031	455	455	.07150		455
	CHIEF JOSEPH	1996	2031	27	27	.07150	R	27
	ICE HARBOR	1996	2031	78	78	.07150		78
	LOST CREEK	1996	2031	31	31	.07150		31
	COLUMBIA BASIN	1996	2031	109	109	.07150		109
	COLUMBIA BASIN	1996	2031	251	251	.07150		251
	DWORSHAK	1996	2031	6	6	.07150		6

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DWORSHAK	1996	2031	203	203	.07150		203	
MCNARY	1997	2032	30	30	.07150		30	
BONNEVILLE - 2ND POWER HOUSE	1982	2032	203,535	203,535	.07150		203,535	
BONNEVILLE - 2ND POWER HOUSE	1982	2032	2,264	2,264	.07150		2,264	
BONNEVILLE	1997	2032	518	518	.07150		518	
CHIEF JOSEPH	1997	2032	166	166	.07150		166	
LOWER SNAKE F AND W	1983	2033	9,967	9,967	.07150		9,967	
BONNEVILLE - 2ND POWER HOUSE	1983	2033	694	694	.07150		694	
BONNEVILLE - 2ND POWER HOUSE	1983	2033	62,409	62,409	.07150		62,409	
BONNEVILLE - 2ND POWER HOUSE	1988	2033	1,271	1,271	.07150		1,271	
BONNEVILLE - 2ND POWER HOUSE	1990	2033	1,588	1,588	.07150		1,588	
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	16,965	16,965	.07150		16,965	
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	13,192	13,192	.07150		6,629	
TOTAL							659,162	
2019	THE DALLES	2014	2019	45	45	.05642	R	45
	JOHN DAY	2012	2019	29	29	.05696	R	29
	BPA CONSERVATION	1999	2019	6,000	6,000	.07470		6,000
	MCNARY	2011	2019	62	62	.05713	R	62
	LOOKOUT POINT-DEXTER	2011	2019	6	6	.05713	R	6
	LITTLE GOOSE	2011	2019	42	42	.05713	R	42
	COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	13,192	6,563	.07150		6,563
	COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	3,160	3,160	.07150		3,160
	COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	1,851	1,851	.07150		1,851
	COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	15,538	15,538	.07150		15,538
	BONNEVILLE - 2ND POWER HOUSE	1986	2033	30,578	30,578	.07150		30,578
	COLUMBIA BASIN - 3RD PWR HOUSE	1990	2033	6,383	6,383	.07150		6,383
	COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	2,294	2,294	.07150		2,294
	COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	712	712	.07150		712
	BONNEVILLE - 2ND POWER HOUSE	1985	2033	9,138	9,138	.07150		9,138
	COLUMBIA BASIN - 3RD PWR HOUSE	1989	2033	10,902	10,902	.07150		10,902
	BONNEVILLE - 2ND POWER HOUSE	1989	2033	1,232	1,232	.07150		1,232
	COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	13,003	13,003	.07150		13,003
	COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	41,772	41,772	.07150		41,772
	COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	1,730	1,730	.07150		1,730
	BONNEVILLE - 2ND POWER HOUSE	1987	2033	2,801	2,801	.07150		2,801
	COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	107	107	.07150		107
	COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	2,060	2,060	.07150		2,060
	COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	14,439	14,439	.07150		14,439

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COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	4,351	4,351	.07150		4,351
JOHN DAY	1995	2035	22	22	.07150		22
JOHN DAY	1995	2035	52	52	.07150		52
JOHN DAY	1995	2035	121	121	.07150		121
LOWER SNAKE F AND W	1985	2035	47,921	47,921	.07150		47,921
LOWER MONUMENTAL	1996	2036	264	264	.07150	R	264
LOWER SNAKE F AND W	1987	2037	72,536	72,536	.07150		72,536
LIBBY	1988	2038	14,781	14,781	.07150		14,781
LOWER SNAKE F AND W	1988	2038	805	805	.07150		805
LOWER SNAKE F AND W	1990	2040	1,557	1,557	.07150		1,557
LITTLE GOOSE	1995	2040	17	17	.07150		17
LITTLE GOOSE	1995	2040	450	450	.07150		450
LITTLE GOOSE	1995	2040	733	733	.07150	R	733
LOWER SNAKE F AND W	1991	2041	4,411	4,411	.07150		4,411
ICE HARBOR	1996	2041	371	371	.07150	R	371
LOWER SNAKE F AND W	1993	2043	71,632	71,632	.07150		71,632
COLUMBIA BASIN - 3RD PWR HOUSE	1994	2044	12,631	12,631	.07150		12,631
LOWER SNAKE F AND W	1994	2044	4,619	4,619	.07150		4,619
BONNEVILLE - 2ND POWER HOUSE	1994	2044	5,700	5,700	.07150		5,700
CHIEF JOSEPH	1994	2044	4,017	4,017	.07150		4,017
DWORSHAK	1995	2045	1,162	1,162	.07150		1,162
HUNGRY HORSE	1995	2045	6,190	6,190	.07150		4,130
TOTAL							----- 422,730
2020 BPA CONSERVATION	2000	2020	32,555	32,555	.07400		32,555
COUGAR	2013	2020	2	2	.05696	R	2
COUGAR	2012	2020	4	4	.05713	R	4
LITTLE GOOSE	2013	2020	24	24	.05696	R	24
HUNGRY HORSE	1995	2045	6,190	2,060	.07150		2,060
BONNEVILLE	1995	2045	410	410	.07150	R	410
COLUMBIA RIVER FISH MITIGATION	1995	2045	703	703	.07150		703
JOHN DAY	1995	2045	37	37	.07150		37
BONNEVILLE	1995	2045	243	243	.07150		243
COLUMBIA BASIN	1995	2045	2,453	2,453	.07150		2,453
ALBENI FALLS	1995	2045	443	443	.07150		443
DETROIT-BIG CLIFF	1995	2045	38	38	.07150		38
CHIEF JOSEPH	1995	2045	784	784	.07150		784
CHIEF JOSEPH	1995	2045	562	562	.07150		562
JOHN DAY	1995	2045	608	608	.07150		608

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JOHN DAY	1995	2045	7,653	7,653	.07150	R	7,653
BONNEVILLE - 2ND POWER HOUSE	1995	2045	3,791	3,791	.07150		3,791
COLUMBIA BASIN	1995	2045	292	292	.07150	R	292
ALBENI FALLS	1995	2045	1,105	1,105	.07150		1,105
CHIEF JOSEPH	1995	2045	147	147	.07150		147
BONNEVILLE	1995	2045	440	440	.07150	R	440
LOOKOUT POINT-DEXTER	1995	2045	33	33	.07150		33
LOOKOUT POINT-DEXTER	1995	2045	39	39	.07150		39
LOST CREEK	1995	2045	94	94	.07150		94
LOWER MONUMENTAL	1995	2045	41	41	.07150		41
LOWER MONUMENTAL	1995	2045	99	99	.07150		99
LOWER MONUMENTAL	1995	2045	624	624	.07150		624
CHIEF JOSEPH	1995	2045	712	712	.07150	R	712
LOWER MONUMENTAL	1995	2045	1,122	1,122	.07150	R	1,122
LOWER SNAKE F AND W	1995	2045	2,162	2,162	.07150		2,162
MCNARY	1995	2045	16	16	.07150		16
ALBENI FALLS	1995	2045	531	531	.07150		531
LITTLE GOOSE	1996	2046	10	10	.07150		10
DWORSHAK	1996	2046	46	46	.07150		46
BONNEVILLE	1996	2046	142	142	.07150		142
LOWER SNAKE F AND W	1996	2046	10,185	10,185	.07150		10,185
LOWER MONUMENTAL	1996	2046	10	10	.07150		10
BONNEVILLE	1996	2046	223	223	.07150		223
BOISE	1996	2046	656	656	.07150		656
BONNEVILLE	1996	2046	751	751	.07150		751
MCNARY	1996	2046	619	619	.07150		619
BONNEVILLE	1996	2046	1,322	1,322	.07150	R	1,322
THE DALLES	1996	2046	1,991	1,991	.07150		1,991
CHIEF JOSEPH	1996	2046	3	3	.07150	R	3
CHIEF JOSEPH	1996	2046	4	4	.07150	R	4
LITTLE GOOSE	1996	2046	3,909	3,909	.07150	R	3,909
LITTLE GOOSE	1996	2046	241	241	.07150		241
HUNGRY HORSE	1996	2046	15	15	.07150		15
LITTLE GOOSE	1996	2046	520	520	.07150	R	520
LITTLE GOOSE	1996	2046	10	10	.07150	R	10
BONNEVILLE	1996	2046	18	18	.07150		18
LOST CREEK	1996	2046	24	24	.07150		24
CHIEF JOSEPH	1996	2046	355	355	.07150		355
LITTLE GOOSE	1996	2046	211	211	.07150		211

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
CHIEF JOSEPH	1996	2046	729	729	.07150		729
BONNEVILLE	1996	2046	80	80	.07150		80
HILLS CREEK	1996	2046	28	28	.07150		28
BONNEVILLE	1996	2046	18	18	.07150		18
COLUMBIA BASIN	1996	2046	426	426	.07150		426
GREEN PETER-FOSTER	1996	2046	26	26	.07150		26
BOISE	1996	2046	450	450	.07150		450
BONNEVILLE	1996	2046	109	109	.07150		109
COLUMBIA BASIN	1996	2046	368	368	.07150		368
COLUMBIA RIVER FISH MITIGATION	1996	2046	42,357	42,357	.07150		42,357
LOWER GRANITE	1996	2046	625	625	.07150		625
LOWER GRANITE	1996	2046	9	9	.07150	R	9
BONNEVILLE - 2ND POWER HOUSE	1996	2046	376	376	.07150		376
DWORSHAK	1996	2046	3	3	.07150		3
DWORSHAK	1996	2046	4	4	.07150		4
HUNGRY HORSE	1996	2046	2	2	.07150		2
LOWER SNAKE F AND W	1997	2047	2,173	2,173	.07150		2,173
COUGAR	1997	2047	26	26	.07150		26
DWORSHAK	1997	2047	7,588	7,588	.07150		7,588
ALBENI FALLS	1997	2047	477	477	.07150		477
HUNGRY HORSE	1997	2047	216	216	.07150		216
BOISE	1997	2047	2,284	2,284	.07150		2,284
LITTLE GOOSE	1997	2047	1	1	.07150		1
LIBBY	1997	2047	660	660	.07150		660
BONNEVILLE	1997	2047	161	161	.07150		161
CHIEF JOSEPH	1997	2047	657	657	.07150		657
COLUMBIA BASIN	1997	2047	3,393	3,393	.07150		3,393
MINIDOKA	1997	2047	51,558	51,558	.07150		51,558
LOWER GRANITE	1997	2047	677	677	.07150		677
JOHN DAY	1997	2047	179	179	.07150		179
ICE HARBOR	1997	2047	67	67	.07150		67
BUREAU DIRECT FUND	2001	2046	76,100	76,100	.07290		76,100
BPA PROGRAM	2001	2046	7,600	7,600	.07290		7,600
BPA PROGRAM	2002	2047	2,100	2,100	.07080		2,100
BUREAU DIRECT FUND	2002	2047	89,855	89,855	.07080		89,855
BPA CONSERVATION	2001	2021	1,000	1,000	.07110		1,000
BPA PROGRAM	2003	2048	1,400	1,400	.06890		1,400
BUREAU DIRECT FUND	2003	2048	86,650	86,650	.06890		86,650
BONNEVILLE	2001	2051	17,820	17,820	.06390		17,820

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+	COLUMBIA BASIN	2001	2051	3,557	3,557	.06390		3,557
	COLUMBIA BASIN	2001	2051	1,163	1,163	.06390		1,163
	THE DALLES	2001	2051	12,528	12,528	.06390		7,874
	TOTAL							491,938
2021	BONNEVILLE	2013	2021	4,179	4,179	.05713	R	4,179
	DWORSHAK	2013	2021	39	39	.05713	R	39
	LITTLE GOOSE	2011	2021	12	12	.05747	R	12
	BONNEVILLE	2016	2021	67,342	67,342	.05642	R	67,342
	BONNEVILLE	2011	2021	117	117	.05747	R	117
	THE DALLES	2001	2051	12,528	4,654	.06390		4,654
	COLUMBIA RIVER FISH MITIGATION	2001	2051	457,474	457,474	.06180		457,474
	BONNEVILLE	2002	2052	8,910	8,910	.06180		8,910
	COLUMBIA BASIN	2002	2052	1,162	1,162	.06180		1,162
	COLUMBIA RIVER FISH MITIGATION	2002	2052	111,042	111,042	.06180		12,311
	TOTAL							556,200
2022	THE DALLES	2015	2022	49	49	.05696	R	49
	ICE HARBOR	2012	2022	13,850	13,850	.05747	R	13,850
	DWORSHAK	2015	2022	18	18	.05696	R	18
	ICE HARBOR	2017	2022	14,209	14,209	.05642	R	14,209
	COLUMBIA RIVER FISH MITIGATION	2002	2052	111,042	98,731	.06180		98,731
	LOWER SNAKE F AND W	2002	2052	794	794	.06180		794
	THE DALLES	2002	2052	12,528	12,528	.06180		12,528
	LOWER GRANITE	2000	2050	1,261	1,261	.06125		1,261
	JOHN DAY	2000	2050	17,643	17,643	.06125		17,643
	COLUMBIA BASIN	2000	2050	1,185	1,185	.06125		1,185
	BONNEVILLE	2000	2050	23,476	23,476	.06125		23,476
	MENARY	2000	2050	937	937	.06125		937
	LOWER MONUMENTAL	2000	2050	521	521	.06125		521
	COLUMBIA BASIN	2000	2050	817	817	.06125		817
	COLUMBIA RIVER FISH MITIGATION	2000	2050	4,541	4,541	.06125		4,541
	ICE HARBOR	2000	2050	696	696	.06125		696
	COLUMBIA BASIN	2002	2027	507	507	.06120		507
	HUNGRY HORSE	2013	2043	494	494	.05993	R	494
	LOWER SNAKE F AND W	2013	2043	2,306	2,306	.05993	R	2,306
	DETROIT-BIG CLIFF	2014	2044	646	646	.05993	R	646
	BONNEVILLE	2011	2046	76,601	76,601	.05993	R	76,601
	ICE HARBOR	2011	2046	6,725	6,725	.05993	R	6,725

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LIBBY	2011	2046	10,917	10,917	.05993	R	10,917	
YAKIMA-CHANDLER	2016	2046	63	63	.05993	R	63	
BOISE	2017	2047	68	68	.05993	R	68	
BONNEVILLE	2012	2047	16	16	.05993	R	16	
MINIDOKA	2017	2047	92	92	.05993	R	92	
LOST CREEK	2012	2047	18	18	.05993	R	18	
LITTLE GOOSE	2013	2048	10,210	10,210	.05993	R	10,210	
COLUMBIA BASIN	2013	2048	57,215	57,215	.05993	R	57,215	
LOWER GRANITE	2013	2048	10,379	10,379	.05993	R	10,379	
CHIEF JOSEPH	2013	2048	72,602	72,602	.05993	R	72,602	
YAKIMA-ROZA	2018	2048	5	5	.05993	R	5	
LOWER MONUMENTAL	2014	2049	9,862	9,862	.05993	R	9,862	
LITTLE GOOSE	2011	2051	10,980	10,980	.05993	R	10,980	
COLUMBIA BASIN	2017	2052	41,327	41,327	.05993	R	41,327	
ICE HARBOR	2022	2052	376	376	.05993	R	376	
BONNEVILLE	2017	2052	73,147	73,147	.05993	R	48,274	
TOTAL							550,939	
2023	LOWER SNAKE F AND W	2013	2023	1,081	1,081	.05747	R	1,081
	LOWER GRANITE	2011	2023	21	21	.05772	R	21
	THE DALLES	2015	2023	74	74	.05713	R	74
	LOWER SNAKE F AND W	2015	2023	113	113	.05713	R	113
	DWORSHAK	2013	2023	191	191	.05747	R	191
	LOWER SNAKE F AND W	2018	2023	50	50	.05642	R	50
	GREEN PETER-FOSTER	2015	2023	14	14	.05713	R	14
	GREEN PETER-FOSTER	2016	2023	18	18	.05696	R	18
	LOWER GRANITE	2015	2023	33	33	.05713	R	33
	BONNEVILLE	2017	2052	73,147	24,873	.05993	R	24,873
	HILLS CREEK	2022	2052	359	359	.05993	R	359
	LOWER SNAKE F AND W	2018	2053	1,186	1,186	.05993	R	1,186
	DWORSHAK	2013	2053	8,022	8,022	.05993	R	8,022
	LIBBY	2020	2055	8,137	8,137	.05993	R	8,137
	LOWER GRANITE	2015	2055	7,350	7,350	.05993	R	7,350
	ICE HARBOR	2016	2056	4,512	4,512	.05993	R	4,512
	LIBBY	2016	2056	16,308	16,308	.05993	R	16,308
	LOST CREEK	2017	2057	1,614	1,614	.05993	R	1,614
	GREEN PETER-FOSTER	2012	2057	2,067	2,067	.05993	R	2,067
	MINIDOKA	2022	2057	3,214	3,214	.05993	R	3,214
	LITTLE GOOSE	2018	2058	9,156	9,156	.05993	R	9,156

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
LOWER GRANITE	2018	2058	8,061	8,061	.05993	R	8,061
CHIEF JOSEPH	2018	2058	46,394	46,394	.05993	R	46,394
GREEN PETER-FOSTER	2013	2058	1,777	1,777	.05993	R	1,777
HUNGRY HORSE	2023	2058	3,486	3,486	.05993	R	3,486
COLUMBIA BASIN	2018	2058	199,761	199,761	.05993	R	199,761
LOWER MONUMENTAL	2019	2059	7,160	7,160	.05993	R	7,160
JOHN DAY	2015	2060	30,028	30,028	.05993	R	30,028
BONNEVILLE	2021	2061	67,535	67,535	.05993	R	67,535
BOISE	2017	2062	796	796	.05993	R	796
BONNEVILLE	2022	2062	65,377	65,377	.05993	R	65,377
ICE HARBOR	2012	2062	4,095	4,095	.05993	R	4,095
LOWER SNAKE F AND W	2023	2063	7,477	7,477	.05993	R	7,477
THE DALLES	2018	2063	6,056	6,056	.05993	R	6,056
ICE HARBOR	2021	2066	29	29	.05993	R	29
BONNEVILLE	2022	2067	60,416	60,416	.05993	R	60,416
MINIDOKA	2017	2067	4,996	4,996	.05993	R	4,996
LOST CREEK	2022	2067	1,260	1,260	.05993	R	1,260
LITTLE GOOSE	2023	2068	131	131	.05993	R	131
COLUMBIA BASIN	2023	2068	62,311	62,311	.05993	R	6,866

TOTAL							610,094
2024							
THE DALLES	2019	2024	45	45	.05642	R	45
LOWER GRANITE	2017	2024	25	25	.05696	R	25
DETROIT-BIG CLIFF	2017	2024	2	2	.05696	R	2
DETROIT-BIG CLIFF	2014	2024	33	33	.05747	R	33
DETROIT-BIG CLIFF	2024	2059	2,605	2,605	.05993	R	2,605
COLUMBIA BASIN	2023	2068	62,311	55,445	.05993	R	55,445
LOWER MONUMENTAL	2019	2069	4,288	4,288	.05993	R	4,288
LOWER MONUMENTAL	2024	2069	117	117	.05993	R	117
LITTLE GOOSE	2021	2071	3,712	3,712	.05993	R	3,712
DWORSHAK	2023	2073	1,818	1,818	.05993	R	1,818
LOWER SNAKE F AND W	2001	2051	7,649	7,649	.05990		7,649
BONNEVILLE	2003	2053	22,216	22,216	.05990		22,216
COLUMBIA BASIN	2003	2053	1,161	1,161	.05990		1,161
COLUMBIA RIVER FISH MITIGATION	2003	2053	44,682	44,682	.05990		44,682
THE DALLES	2003	2053	12,528	12,528	.05990		12,528
HILLS CREEK	2012	2037	1	1	.05932	R	1
ICE HARBOR	2012	2037	1,649	1,649	.05932	R	1,649
COUGAR	2014	2039	140	140	.05932	R	140

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BONNEVILLE	2016	2041	2,702	2,702	.05932	R	2,702
GREEN PETER-FOSTER	2017	2042	140	140	.05932	R	140
MINIDOKA	2017	2042	2,049	2,049	.05932	R	2,049
GREEN PETER-FOSTER	2018	2043	72	72	.05932	R	72
LOWER MONUMENTAL	2019	2044	888	888	.05932	R	888
JOHN DAY	2020	2045	676	676	.05932	R	676
LITTLE GOOSE	2021	2046	1,017	1,017	.05932	R	1,017
COLUMBIA BASIN	2022	2047	47,084	47,084	.05932	R	47,084
DWORSHAK	2023	2048	7,677	7,677	.05932	R	7,677
COLUMBIA BASIN	2003	2028	507	507	.05930		507
LITTLE GOOSE	2011	2031	31,402	31,402	.05870	R	31,402
HUNGRY HORSE	2013	2033	736	736	.05870	R	736
DWORSHAK	2013	2033	3,556	3,556	.05870	R	3,556
THE DALLES	2013	2033	235	235	.05870	R	235
DETROIT-BIG CLIFF	2014	2034	309	309	.05870	R	309
DETROIT-BIG CLIFF	2014	2034	4,776	4,776	.05870	R	4,776
LOWER GRANITE	2015	2035	37,253	37,253	.05870	R	37,253
ALBENI FALLS	2015	2035	973	973	.05870	R	973
MCNARY	2015	2035	1,287	1,287	.05870	R	1,287
LOOKOUT POINT-DEXTER	2015	2035	460	460	.05870	R	460
LOOKOUT POINT-DEXTER	2015	2035	79	79	.05870	R	79
LIBBY	2016	2036	694	694	.05870	R	694
YAKIMA-CHANDLER	2016	2036	92	92	.05870	R	92
ICE HARBOR	2016	2036	203	203	.05870	R	203
CHIEF JOSEPH	2017	2037	2,272	2,272	.05870	R	2,272
MINIDOKA	2017	2037	290	290	.05870	R	290
MINIDOKA	2017	2037	98	98	.05870	R	98
LOST CREEK	2017	2037	39	39	.05870	R	39
CHIEF JOSEPH	2018	2038	738	738	.05870	R	738
LOWER GRANITE	2018	2038	326	326	.05870	R	326
COLUMBIA BASIN	2018	2038	5,726	5,726	.05870	R	5,726
LITTLE GOOSE	2018	2038	202	202	.05870	R	202
YAKIMA-ROZA	2018	2038	8	8	.05870	R	8
LOWER MONUMENTAL	2019	2039	322	322	.05870	R	322
THE DALLES	2019	2039	1,300	1,300	.05870	R	1,300
BONNEVILLE	2021	2041	647	647	.05870	R	647
ICE HARBOR	2022	2042	1,512	1,512	.05870	R	1,512
LOWER SNAKE F AND W	2023	2043	5,429	5,429	.05870	R	5,429
COUGAR	2024	2044	74	74	.05870	R	74

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BONNEVILLE	2012	2027	1,157	1,157	.05809	R	1,157
HUNGRY HORSE	2013	2028	490	490	.05809	R	490
LOWER SNAKE F AND W	2013	2028	1,168	1,168	.05809	R	1,168
LOWER MONUMENTAL	2014	2029	30,686	30,686	.05809	R	30,686
DETROIT-BIG CLIFF	2014	2029	24,477	24,477	.05809	R	24,477
DETROIT-BIG CLIFF	2014	2029	18	18	.05809	R	18
JOHN DAY	2015	2030	2,073	2,073	.05809	R	2,073
MCNARY	2015	2030	22,089	22,089	.05809	R	22,089
ALBENI FALLS	2015	2030	61	61	.05809	R	61
LOOKOUT POINT-DEXTER	2015	2030	453	453	.05809	R	453
JOHN DAY	2015	2030	165	165	.05809	R	165
LIBBY	2015	2030	216	216	.05809	R	216
BONNEVILLE	2016	2031	2,685	2,685	.05809	R	2,685
LITTLE GOOSE	2016	2031	31,880	31,880	.05809	R	31,880
YAKIMA-CHANDLER	2016	2031	26	26	.05809	R	26
MINIDOKA	2017	2032	133	133	.05809	R	133
CHIEF JOSEPH	2017	2032	1,487	1,487	.05809	R	1,487
BOISE	2017	2032	13	13	.05809	R	13
DWORSHAK	2018	2033	3,047	3,047	.05809	R	3,047
THE DALLES	2018	2033	2,039	2,039	.05809	R	2,039
YAKIMA-ROZA	2018	2033	2	2	.05809	R	2
THE DALLES	2019	2034	1,322	1,322	.05809	R	1,322
LOWER GRANITE	2020	2035	18,149	18,149	.05809	R	18,149
LIBBY	2021	2036	1,975	1,975	.05809	R	1,975
MINIDOKA	2022	2037	90	90	.05809	R	90
COLUMBIA BASIN	2022	2037	881	881	.05809	R	881
LOWER GRANITE	2023	2038	326	326	.05809	R	326
CHIEF JOSEPH	2023	2038	210	210	.05809	R	210
COLUMBIA BASIN	2023	2038	1,192	1,192	.05809	R	1,192
COUGAR	2024	2039	45	45	.05809	R	45
BONNEVILLE	2013	2025	152	152	.05772	R	152
LOST CREEK	2013	2025	5	5	.05772	R	5
DETROIT-BIG CLIFF	2014	2026	25	25	.05772	R	25
ALBENI FALLS	2015	2027	137	137	.05772	R	137
MCNARY	2015	2027	29,850	29,850	.05772	R	29,850
LOOKOUT POINT-DEXTER	2015	2027	41	41	.05772	R	41
LOWER MONUMENTAL	2017	2029	2,388	2,388	.05772	R	2,388
JOHN DAY	2018	2030	45	45	.05772	R	45
LOWER SNAKE F AND W	2019	2031	542	542	.05772	R	542

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LITTLE GOOSE	2019	2031	2,388	2,388	.05772	R	2,388
THE DALLES	2019	2031	10	10	.05772	R	10
THE DALLES	2021	2033	1,803	1,803	.05772	R	1,803
DWORSHAK	2021	2033	56	56	.05772	R	56
ICE HARBOR	2022	2034	5,015	5,015	.05772	R	5,015
LOWER GRANITE	2023	2035	21	21	.05772	R	21
ALBENI FALLS	2015	2025	1	1	.05747	R	1
LOOKOUT POINT-DEXTER	2015	2025	113	113	.05747	R	113
MCNARY	2015	2025	60,894	60,894	.05747	R	60,894
LOWER GRANITE	2015	2025	928	928	.05747	R	928
LIBBY	2016	2026	72	72	.05747	R	72
YAKIMA-CHANDLER	2016	2026	62	62	.05747	R	62
GREEN PETER-FOSTER	2017	2027	23	23	.05747	R	23
CHIEF JOSEPH	2017	2027	43	43	.05747	R	43
MINIDOKA	2017	2027	17	17	.05747	R	17
LITTLE GOOSE	2018	2028	1,083	1,083	.05747	R	1,083
LOWER MONUMENTAL	2019	2029	12	12	.05747	R	12
THE DALLES	2019	2029	1	1	.05747	R	1
LITTLE GOOSE	2021	2031	12	12	.05747	R	12
BONNEVILLE	2021	2031	117	117	.05747	R	117
ICE HARBOR	2022	2032	13,850	13,850	.05747	R	13,850
DWORSHAK	2023	2033	191	191	.05747	R	191
LOWER SNAKE F AND W	2023	2033	1,081	1,081	.05747	R	1,081
DETROIT-BIG CLIFF	2024	2034	33	33	.05747	R	33
LOST CREEK	2017	2025	1	1	.05713	R	1
LOWER MONUMENTAL	2017	2025	47	47	.05713	R	47
ICE HARBOR	2018	2026	7,283	7,283	.05713	R	7,283
JOHN DAY	2018	2026	5	5	.05713	R	5
DETROIT-BIG CLIFF	2018	2026	5	5	.05713	R	5
LOOKOUT POINT-DEXTER	2019	2027	6	6	.05713	R	6
MCNARY	2019	2027	62	62	.05713	R	62
LITTLE GOOSE	2019	2027	42	42	.05713	R	42
COUGAR	2020	2028	4	4	.05713	R	4
DWORSHAK	2021	2029	39	39	.05713	R	39
BONNEVILLE	2021	2029	4,179	4,179	.05713	R	4,179
GREEN PETER-FOSTER	2023	2031	14	14	.05713	R	14
LOWER GRANITE	2023	2031	33	33	.05713	R	33
LOWER SNAKE F AND W	2023	2031	113	113	.05713	R	113
THE DALLES	2023	2031	74	74	.05713	R	74

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(ALL AMOUNT IN \$1000)

	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+	LOWER MONUMENTAL	2018	2025	24	24	.05696	R	24
	BONNEVILLE	2018	2025	28,656	28,656	.05696	R	28,656
	LOOKOUT POINT-DEXTER	2018	2025	16	16	.05696	R	16
	LIBBY	2018	2025	72	72	.05696	R	72
	ICE HARBOR	2018	2025	26,865	26,865	.05696	R	14,136
	TOTAL							646,343
2025	MCNARY	2018	2025	30	30	.05696	R	30
	LOWER SNAKE F AND W	2018	2025	593	593	.05696	R	593
	ICE HARBOR	2018	2025	26,865	12,729	.05696	R	12,729
	ALBENI FALLS	2025	2060	8,935	8,935	.05993	R	8,935
	MCNARY	2025	2060	65,801	65,801	.05993	R	65,801
	LIBBY	2025	2065	8,202	8,202	.05993	R	8,202
	LOWER GRANITE	2025	2075	1,648	1,648	.05993	R	1,648
	LOWER GRANITE	2025	2050	216	216	.05932	R	216
	LOST CREEK	2025	2037	5	5	.05772	R	5
	BONNEVILLE	2025	2037	152	152	.05772	R	152
	LOOKOUT POINT-DEXTER	2025	2035	113	113	.05747	R	113
	ALBENI FALLS	2025	2035	1	1	.05747	R	1
	LOWER GRANITE	2025	2035	928	928	.05747	R	928
	MCNARY	2025	2035	60,894	60,894	.05747	R	60,894
	LOST CREEK	2025	2033	1	1	.05713	R	1
	LOWER MONUMENTAL	2025	2033	47	47	.05713	R	47
	JOHN DAY	2019	2026	29	29	.05696	R	29
	LITTLE GOOSE	2020	2027	24	24	.05696	R	24
	COUGAR	2020	2027	2	2	.05696	R	2
	DWORSHAK	2022	2029	18	18	.05696	R	18
	THE DALLES	2022	2029	49	49	.05696	R	49
	GREEN PETER-FOSTER	2023	2030	18	18	.05696	R	18
	LOWER GRANITE	2024	2031	25	25	.05696	R	25
	DETROIT-BIG CLIFF	2024	2031	2	2	.05696	R	2
	LOWER MONUMENTAL	2025	2032	24	24	.05696	R	24
	LOOKOUT POINT-DEXTER	2025	2032	16	16	.05696	R	16
	BONNEVILLE	2025	2032	28,656	28,656	.05696	R	28,656
	LOWER SNAKE F AND W	2025	2032	593	593	.05696	R	593
	LIBBY	2025	2032	72	72	.05696	R	72
	ICE HARBOR	2025	2032	26,865	26,865	.05696	R	26,865
	MCNARY	2025	2032	30	30	.05696	R	30
	BONNEVILLE	2021	2026	67,342	67,342	.05642	R	67,342

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(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	ICE HARBOR	2022	2027	14,209	14,209	.05642	R	14,209
	LOWER SNAKE F AND W	2023	2028	50	50	.05642	R	50
	THE DALLES	2024	2029	45	45	.05642	R	45
	BONNEVILLE	1999	2044	29,984	29,984	.05325		29,984
	COLUMBIA RIVER FISH MITIGATION	1999	2049	20,689	20,689	.05325		20,689
	TOTAL							----- 349,037
2026	YAKIMA-CHANDLER	2026	2061	499	499	.05993	R	499
	LIBBY	2026	2076	3,478	3,478	.05993	R	3,478
	ICE HARBOR	2026	2076	1,295	1,295	.05993	R	1,295
	LIBBY	2026	2051	2,738	2,738	.05932	R	2,738
	ICE HARBOR	2026	2051	44	44	.05932	R	44
	DETROIT-BIG CLIFF	2026	2038	25	25	.05772	R	25
	YAKIMA-CHANDLER	2026	2036	62	62	.05747	R	62
	LIBBY	2026	2036	72	72	.05747	R	72
	ICE HARBOR	2026	2034	7,283	7,283	.05713	R	7,283
	JOHN DAY	2026	2034	5	5	.05713	R	5
	DETROIT-BIG CLIFF	2026	2034	5	5	.05713	R	5
	JOHN DAY	2026	2033	29	29	.05696	R	29
	BONNEVILLE	2026	2031	67,342	67,342	.05642	R	67,342
	TOTAL							----- 82,877
2027	GREEN PETER-FOSTER	2027	2057	463	463	.05993	R	463
	MINIDOKA	2027	2062	773	773	.05993	R	773
	CHIEF JOSEPH	2027	2062	59,823	59,823	.05993	R	59,823
	COLUMBIA BASIN	2027	2067	45,482	45,482	.05993	R	45,482
	BONNEVILLE	2027	2072	1,001	1,001	.05993	R	1,001
	LOST CREEK	2027	2077	604	604	.05993	R	604
	BONNEVILLE	2027	2077	310	310	.05993	R	310
	BOISE	2027	2077	8,216	8,216	.05993	R	8,216
	LOST CREEK	2027	2052	78	78	.05932	R	78
	BONNEVILLE	2027	2052	14	14	.05932	R	14
	BOISE	2027	2052	22,519	22,519	.05932	R	22,519
	GREEN PETER-FOSTER	2027	2047	1,011	1,011	.05870	R	1,011
	COLUMBIA BASIN	2027	2047	4,888	4,888	.05870	R	4,888
	BOISE	2027	2047	147	147	.05870	R	147
	BONNEVILLE	2027	2042	1,157	1,157	.05809	R	1,157
	MCNARY	2027	2039	29,850	29,850	.05772	R	29,850
	LOOKOUT POINT-DEXTER	2027	2039	41	41	.05772	R	41

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
ALBENI FALLS	2027	2039	137	137	.05772	R	137
CHIEF JOSEPH	2027	2037	43	43	.05747	R	43
GREEN PETER-FOSTER	2027	2037	23	23	.05747	R	23
MINIDOKA	2027	2037	17	17	.05747	R	17
LOOKOUT POINT-DEXTER	2027	2035	6	6	.05713	R	6
LITTLE GOOSE	2027	2035	42	42	.05713	R	42
MCNARY	2027	2035	62	62	.05713	R	62
COUGAR	2027	2034	2	2	.05696	R	2
LITTLE GOOSE	2027	2034	24	24	.05696	R	24
ICE HARBOR	2027	2032	14,209	14,209	.05642	R	14,209
TOTAL							190,942
2028 GREEN PETER-FOSTER	2028	2058	167	167	.05993	R	167
YAKIMA-ROZA	2028	2063	57	57	.05993	R	57
LOWER SNAKE F AND W	2028	2073	1,116	1,116	.05993	R	1,116
LOWER GRANITE	2028	2078	1,721	1,721	.05993	R	1,721
LITTLE GOOSE	2028	2078	1,777	1,777	.05993	R	1,777
COLUMBIA BASIN	2028	2078	121,368	121,368	.05993	R	121,368
CHIEF JOSEPH	2028	2078	12,831	12,831	.05993	R	12,831
LITTLE GOOSE	2028	2053	39	39	.05932	R	39
HUNGRY HORSE	2028	2053	11,194	11,194	.05932	R	11,194
LOWER GRANITE	2028	2053	122	122	.05932	R	122
COLUMBIA BASIN	2028	2053	51,669	51,669	.05932	R	51,669
CHIEF JOSEPH	2028	2053	356	356	.05932	R	356
GREEN PETER-FOSTER	2028	2048	826	826	.05870	R	826
HUNGRY HORSE	2028	2043	490	490	.05809	R	490
LOWER SNAKE F AND W	2028	2043	1,168	1,168	.05809	R	1,168
LITTLE GOOSE	2028	2038	1,083	1,083	.05747	R	1,083
COUGAR	2028	2036	4	4	.05713	R	4
LOWER SNAKE F AND W	2028	2033	50	50	.05642	R	50
TOTAL							206,038

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2031	LITTLE GOOSE	2031	2061	252	252	.05993	R	252
	BONNEVILLE	2031	2076	1,163	1,163	.05993	R	1,163
	YAKIMA-CHANDLER	2031	2056	983	983	.05932	R	983
	LITTLE GOOSE	2031	2051	31,402	31,402	.05870	R	31,402
	LITTLE GOOSE	2031	2046	31,880	31,880	.05809	R	31,880
	YAKIMA-CHANDLER	2031	2046	26	26	.05809	R	26
	BONNEVILLE	2031	2046	2,685	2,685	.05809	R	2,685
	LOWER SNAKE F AND W	2031	2043	542	542	.05772	R	542
	LITTLE GOOSE	2031	2043	2,388	2,388	.05772	R	2,388
	THE DALLES	2031	2043	10	10	.05772	R	10
	LITTLE GOOSE	2031	2041	12	12	.05747	R	12
	BONNEVILLE	2031	2041	117	117	.05747	R	117
	GREEN PETER-FOSTER	2031	2039	14	14	.05713	R	14
	LOWER SNAKE F AND W	2031	2039	113	113	.05713	R	113
	LOWER GRANITE	2031	2039	33	33	.05713	R	33
	THE DALLES	2031	2039	74	74	.05713	R	74
	DETROIT-BIG CLIFF	2031	2038	2	2	.05696	R	2
	LOWER GRANITE	2031	2038	25	25	.05696	R	25
	BONNEVILLE	2031	2036	67,342	67,342	.05642	R	67,342
	TOTAL							139,063
2032	ICE HARBOR	2032	2067	17,521	17,521	.05993	R	17,521
	BOISE	2032	2067	1,014	1,014	.05993	R	1,014
	BONNEVILLE	2032	2082	14,170	14,170	.05993	R	14,170
	MINIDOKA	2032	2057	2,449	2,449	.05932	R	2,449
	CHIEF JOSEPH	2032	2057	4,368	4,368	.05932	R	4,368
	BONNEVILLE	2032	2057	4,439	4,439	.05932	R	4,439
	CHIEF JOSEPH	2032	2047	1,487	1,487	.05809	R	1,487
	MINIDOKA	2032	2047	133	133	.05809	R	133
	BOISE	2032	2047	13	13	.05809	R	13
	ICE HARBOR	2032	2042	13,850	13,850	.05747	R	13,850
	LOWER SNAKE F AND W	2032	2039	593	593	.05696	R	593
	LIBBY	2032	2039	72	72	.05696	R	72
	LOWER MONUMENTAL	2032	2039	24	24	.05696	R	24
	LOOKOUT POINT-DEXTER	2032	2039	16	16	.05696	R	16
	BONNEVILLE	2032	2039	28,656	28,656	.05696	R	28,656
	MCNARY	2032	2039	30	30	.05696	R	30
	ICE HARBOR	2032	2039	26,865	26,865	.05696	R	26,865
	ICE HARBOR	2032	2037	14,209	14,209	.05642	R	14,209

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT

TOTAL							129,909
2033							
THE DALLES	2033	2063	20,158	20,158	.05993	R	20,158
HUNGRY HORSE	2033	2073	6,396	6,396	.05993	R	6,396
LOWER SNAKE F AND W	2033	2083	17,444	17,444	.05993	R	17,444
YAKIMA-ROZA	2033	2058	111	111	.05932	R	111
LOWER SNAKE F AND W	2033	2058	1,050	1,050	.05932	R	1,050
THE DALLES	2033	2053	235	235	.05870	R	235
HUNGRY HORSE	2033	2053	736	736	.05870	R	736
DWORSHAK	2033	2053	3,556	3,556	.05870	R	3,556
YAKIMA-ROZA	2033	2048	2	2	.05809	R	2
DWORSHAK	2033	2048	3,047	3,047	.05809	R	3,047
THE DALLES	2033	2048	2,039	2,039	.05809	R	2,039
THE DALLES	2033	2045	1,803	1,803	.05772	R	1,803
DWORSHAK	2033	2045	56	56	.05772	R	56
LOWER SNAKE F AND W	2033	2043	1,081	1,081	.05747	R	1,081
DWORSHAK	2033	2043	191	191	.05747	R	191
LOST CREEK	2033	2041	1	1	.05713	R	1
LOWER MONUMENTAL	2033	2041	47	47	.05713	R	47
JOHN DAY	2033	2040	29	29	.05696	R	29
LOWER SNAKE F AND W	2033	2038	50	50	.05642	R	50

TOTAL							58,032
2034							
COUGAR	2034	2069	2,685	2,685	.05993	R	2,685
DETROIT-BIG CLIFF	2034	2074	13,427	13,427	.05993	R	13,427
DETROIT-BIG CLIFF	2034	2074	1,563	1,563	.05993	R	1,563
THE DALLES	2034	2059	2,670	2,670	.05932	R	2,670
DETROIT-BIG CLIFF	2034	2054	309	309	.05870	R	309
DETROIT-BIG CLIFF	2034	2054	4,776	4,776	.05870	R	4,776
THE DALLES	2034	2049	1,322	1,322	.05809	R	1,322
ICE HARBOR	2034	2046	5,015	5,015	.05772	R	5,015
DETROIT-BIG CLIFF	2034	2044	33	33	.05747	R	33
DETROIT-BIG CLIFF	2034	2042	5	5	.05713	R	5
JOHN DAY	2034	2042	5	5	.05713	R	5
ICE HARBOR	2034	2042	7,283	7,283	.05713	R	7,283
LITTLE GOOSE	2034	2041	24	24	.05696	R	24
COUGAR	2034	2041	2	2	.05696	R	2
THE DALLES	2034	2039	45	45	.05642	R	45

TOTAL							39,164

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2035	LOWER GRANITE	2035	2065	696	696	.05993	R	696
	MCNARY	2035	2075	33,763	33,763	.05993	R	33,763
	LOOKOUT POINT-DEXTER	2035	2075	2,218	2,218	.05993	R	2,218
	LOOKOUT POINT-DEXTER	2035	2075	11,125	11,125	.05993	R	11,125
	ALBENI FALLS	2035	2075	669	669	.05993	R	669
	LIBBY	2035	2085	6,328	6,328	.05993	R	6,328
	LIBBY	2035	2060	291	291	.05932	R	291
	LOOKOUT POINT-DEXTER	2035	2055	460	460	.05870	R	460
	MCNARY	2035	2055	1,287	1,287	.05870	R	1,287
	LOOKOUT POINT-DEXTER	2035	2055	79	79	.05870	R	79
	ALBENI FALLS	2035	2055	973	973	.05870	R	973
	LOWER GRANITE	2035	2055	37,253	37,253	.05870	R	37,253
	LOWER GRANITE	2035	2050	18,149	18,149	.05809	R	18,149
	LOWER GRANITE	2035	2047	21	21	.05772	R	21
	LOOKOUT POINT-DEXTER	2035	2045	113	113	.05747	R	113
	MCNARY	2035	2045	60,894	60,894	.05747	R	60,894
	LOWER GRANITE	2035	2045	928	928	.05747	R	928
	ALBENI FALLS	2035	2045	1	1	.05747	R	1
	LITTLE GOOSE	2035	2043	42	42	.05713	R	42
	LOOKOUT POINT-DEXTER	2035	2043	6	6	.05713	R	6
	MCNARY	2035	2043	62	62	.05713	R	62
	TOTAL							----- 175,358
2036	YAKIMA-CHANDLER	2036	2076	493	493	.05993	R	493
	YAKIMA-CHANDLER	2036	2056	92	92	.05870	R	92
	LIBBY	2036	2056	694	694	.05870	R	694
	ICE HARBOR	2036	2056	203	203	.05870	R	203
	LIBBY	2036	2051	1,975	1,975	.05809	R	1,975
	YAKIMA-CHANDLER	2036	2046	62	62	.05747	R	62
	LIBBY	2036	2046	72	72	.05747	R	72
	COUGAR	2036	2044	4	4	.05713	R	4
	DWORSHAK	2036	2043	18	18	.05696	R	18
	THE DALLES	2036	2043	49	49	.05696	R	49
	BONNEVILLE	2036	2041	67,342	67,342	.05642	R	67,342
	TOTAL							----- 71,004

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2037	MINIDOKA	2037	2067	73	73	.05993	R	73
	LOST CREEK	2037	2067	171	171	.05993	R	171
	COLUMBIA BASIN	2037	2067	2,183	2,183	.05993	R	2,183
	MINIDOKA	2037	2077	1,711	1,711	.05993	R	1,711
	MINIDOKA	2037	2077	6,597	6,597	.05993	R	6,597
	CHIEF JOSEPH	2037	2077	28,806	28,806	.05993	R	28,806
	COLUMBIA BASIN	2037	2082	48,273	48,273	.05993	R	48,273
	ICE HARBOR	2037	2062	1,649	1,649	.05932	R	1,649
	HILLS CREEK	2037	2062	1	1	.05932	R	1
	LOST CREEK	2037	2057	39	39	.05870	R	39
	MINIDOKA	2037	2057	98	98	.05870	R	98
	MINIDOKA	2037	2057	290	290	.05870	R	290
	CHIEF JOSEPH	2037	2057	2,272	2,272	.05870	R	2,272
	COLUMBIA BASIN	2037	2052	881	881	.05809	R	881
	MINIDOKA	2037	2052	90	90	.05809	R	90
	LOST CREEK	2037	2049	5	5	.05772	R	5
	BONNEVILLE	2037	2049	152	152	.05772	R	152
	GREEN PETER-FOSTER	2037	2047	23	23	.05747	R	23
	MINIDOKA	2037	2047	17	17	.05747	R	17
	CHIEF JOSEPH	2037	2047	43	43	.05747	R	43
	DWORSHAK	2037	2045	39	39	.05713	R	39
	BONNEVILLE	2037	2045	4,179	4,179	.05713	R	4,179
	GREEN PETER-FOSTER	2037	2044	18	18	.05696	R	18
	ICE HARBOR	2037	2042	14,209	14,209	.05642	R	14,209
	TOTAL							111,819
2038	COLUMBIA BASIN	2038	2068	2,450	2,450	.05993	R	2,450
	YAKIMA-ROZA	2038	2078	130	130	.05993	R	130
	LOWER GRANITE	2038	2058	326	326	.05870	R	326
	LITTLE GOOSE	2038	2058	202	202	.05870	R	202
	YAKIMA-ROZA	2038	2058	8	8	.05870	R	8
	COLUMBIA BASIN	2038	2058	5,726	5,726	.05870	R	5,726
	CHIEF JOSEPH	2038	2058	738	738	.05870	R	738
	LOWER GRANITE	2038	2053	326	326	.05809	R	326
	COLUMBIA BASIN	2038	2053	1,192	1,192	.05809	R	1,192
	CHIEF JOSEPH	2038	2053	210	210	.05809	R	210
	DETROIT-BIG CLIFF	2038	2050	25	25	.05772	R	25
	LITTLE GOOSE	2038	2048	1,083	1,083	.05747	R	1,083
	DETROIT-BIG CLIFF	2038	2045	2	2	.05696	R	2

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+	LOWER GRANITE	2038	2045	25	25	.05696	R	25
	LOWER SNAKE F AND W	2038	2043	50	50	.05642	R	50
	TOTAL							----- 12,493
2039	LOWER MONUMENTAL	2039	2074	10,722	10,722	.05993	R	10,722
	THE DALLES	2039	2079	46,174	46,174	.05993	R	46,174
	COUGAR	2039	2064	140	140	.05932	R	140
	LOWER MONUMENTAL	2039	2059	322	322	.05870	R	322
	THE DALLES	2039	2059	1,300	1,300	.05870	R	1,300
	COUGAR	2039	2054	45	45	.05809	R	45
	LOOKOUT POINT-DEXTER	2039	2051	41	41	.05772	R	41
	MCNARY	2039	2051	29,850	29,850	.05772	R	29,850
	ALBENI FALLS	2039	2051	137	137	.05772	R	137
	THE DALLES	2039	2049	1	1	.05747	R	1
	LOWER MONUMENTAL	2039	2049	12	12	.05747	R	12
	THE DALLES	2039	2047	74	74	.05713	R	74
	LOWER GRANITE	2039	2047	33	33	.05713	R	33
	GREEN PETER-FOSTER	2039	2047	14	14	.05713	R	14
	LOWER SNAKE F AND W	2039	2047	113	113	.05713	R	113
	LOOKOUT POINT-DEXTER	2039	2046	16	16	.05696	R	16
	LIBBY	2039	2046	72	72	.05696	R	72
	ICE HARBOR	2039	2046	26,865	26,865	.05696	R	26,865
	LOWER MONUMENTAL	2039	2046	24	24	.05696	R	24
	MCNARY	2039	2046	30	30	.05696	R	30
	BONNEVILLE	2039	2046	28,656	28,656	.05696	R	28,656
	LOWER SNAKE F AND W	2039	2046	593	593	.05696	R	593
	THE DALLES	2039	2044	45	45	.05642	R	45
	TOTAL							----- 145,279
2040	JOHN DAY	2040	2075	562	562	.05993	R	562
	JOHN DAY	2040	2047	29	29	.05696	R	29
	TOTAL							----- 591

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2041	LITTLE GOOSE	2041	2076	13,084	13,084	.05993	R	13,084
	DETROIT-BIG CLIFF	2041	2091	589	589	.05993	R	589
	BONNEVILLE	2041	2091	22,453	22,453	.05993	R	22,453
	BONNEVILLE	2041	2066	2,702	2,702	.05932	R	2,702
	BONNEVILLE	2041	2061	647	647	.05870	R	647
	LOWER MONUMENTAL	2041	2053	2,388	2,388	.05772	R	2,388
	BONNEVILLE	2041	2051	117	117	.05747	R	117
	LITTLE GOOSE	2041	2051	12	12	.05747	R	12
	LOST CREEK	2041	2049	1	1	.05713	R	1
	LOWER MONUMENTAL	2041	2049	47	47	.05713	R	47
	LITTLE GOOSE	2041	2048	24	24	.05696	R	24
	COUGAR	2041	2048	2	2	.05696	R	2
	BONNEVILLE	2041	2046	67,342	67,342	.05642	R	67,342
	TOTAL							109,408
2042	ICE HARBOR	2042	2082	12,062	12,062	.05993	R	12,062
	HILLS CREEK	2042	2082	1,836	1,836	.05993	R	1,836
	MINIDOKA	2042	2067	2,049	2,049	.05932	R	2,049
	GREEN PETER-FOSTER	2042	2067	140	140	.05932	R	140
	ICE HARBOR	2042	2062	1,512	1,512	.05870	R	1,512
	BONNEVILLE	2042	2057	1,157	1,157	.05809	R	1,157
	JOHN DAY	2042	2054	45	45	.05772	R	45
	ICE HARBOR	2042	2052	13,850	13,850	.05747	R	13,850
	ICE HARBOR	2042	2050	7,283	7,283	.05713	R	7,283
	JOHN DAY	2042	2050	5	5	.05713	R	5
	DETROIT-BIG CLIFF	2042	2050	5	5	.05713	R	5
	ICE HARBOR	2042	2047	14,209	14,209	.05642	R	14,209
	TOTAL							54,153
2043	LOWER SNAKE F AND W	2043	2073	2,306	2,306	.05993	R	2,306
	HUNGRY HORSE	2043	2073	494	494	.05993	R	494
	THE DALLES	2043	2078	16,302	16,302	.05993	R	16,302
	DWORSHAK	2043	2078	12,908	12,908	.05993	R	12,908
	HUNGRY HORSE	2043	2088	7,025	7,025	.05993	R	7,025
	GREEN PETER-FOSTER	2043	2068	72	72	.05932	R	72
	LOWER SNAKE F AND W	2043	2063	5,429	5,429	.05870	R	5,429
	HUNGRY HORSE	2043	2058	490	490	.05809	R	490
	LOWER SNAKE F AND W	2043	2058	1,168	1,168	.05809	R	1,168
	LOWER SNAKE F AND W	2043	2055	542	542	.05772	R	542

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
LITTLE GOOSE	2043	2055	2,388	2,388	.05772	R	2,388	
THE DALLES	2043	2055	10	10	.05772	R	10	
LOWER SNAKE F AND W	2043	2053	1,081	1,081	.05747	R	1,081	
DWORSHAK	2043	2053	191	191	.05747	R	191	
LITTLE GOOSE	2043	2051	42	42	.05713	R	42	
MCNARY	2043	2051	62	62	.05713	R	62	
LOOKOUT POINT-DEXTER	2043	2051	6	6	.05713	R	6	
DWORSHAK	2043	2050	18	18	.05696	R	18	
THE DALLES	2043	2050	49	49	.05696	R	49	
LOWER SNAKE F AND W	2043	2048	50	50	.05642	R	50	
TOTAL							50,633	
2044	DETROIT-BIG CLIFF	2044	2074	646	646	.05993	R	646
	COUGAR	2044	2084	1,582	1,582	.05993	R	1,582
	DETROIT-BIG CLIFF	2044	2089	5,103	5,103	.05993	R	5,103
	LOWER MONUMENTAL	2044	2069	888	888	.05932	R	888
	COUGAR	2044	2064	74	74	.05870	R	74
	DETROIT-BIG CLIFF	2044	2059	24,477	24,477	.05809	R	24,477
	DETROIT-BIG CLIFF	2044	2059	18	18	.05809	R	18
	LOWER MONUMENTAL	2044	2059	30,686	30,686	.05809	R	30,686
	DETROIT-BIG CLIFF	2044	2054	33	33	.05747	R	33
	COUGAR	2044	2052	4	4	.05713	R	4
	GREEN PETER-FOSTER	2044	2051	18	18	.05696	R	18
	THE DALLES	2044	2049	45	45	.05642	R	45
TOTAL							63,574	
2045	LOWER GRANITE	2045	2080	8,813	8,813	.05993	R	8,813
	LOOKOUT POINT-DEXTER	2045	2090	2,415	2,415	.05993	R	2,415
	LOOKOUT POINT-DEXTER	2045	2090	5,812	5,812	.05993	R	5,812
	JOHN DAY	2045	2070	676	676	.05932	R	676
	LOOKOUT POINT-DEXTER	2045	2060	453	453	.05809	R	453
	MCNARY	2045	2060	22,089	22,089	.05809	R	22,089
	LIBBY	2045	2060	216	216	.05809	R	216
	JOHN DAY	2045	2060	165	165	.05809	R	165
	JOHN DAY	2045	2060	2,073	2,073	.05809	R	2,073
	ALBENI FALLS	2045	2060	61	61	.05809	R	61
	THE DALLES	2045	2057	1,803	1,803	.05772	R	1,803
	DWORSHAK	2045	2057	56	56	.05772	R	56
	LOWER GRANITE	2045	2055	928	928	.05747	R	928

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
LOOKOUT POINT-DEXTER	2045	2055	113	113	.05747	R	113
ALBENI FALLS	2045	2055	1	1	.05747	R	1
MCNARY	2045	2055	60,894	60,894	.05747	R	60,894
BONNEVILLE	2045	2053	4,179	4,179	.05713	R	4,179
DWORSHAK	2045	2053	39	39	.05713	R	39
LOWER GRANITE	2045	2052	25	25	.05696	R	25
DETROIT-BIG CLIFF	2045	2052	2	2	.05696	R	2
TOTAL							110,813
2046 YAKIMA-CHANDLER	2046	2076	63	63	.05993	R	63
LIBBY	2046	2081	10,917	10,917	.05993	R	10,917
ICE HARBOR	2046	2081	6,725	6,725	.05993	R	6,725
BONNEVILLE	2046	2081	76,601	76,601	.05993	R	76,601
YAKIMA-CHANDLER	2046	2091	806	806	.05993	R	806
LITTLE GOOSE	2046	2071	1,017	1,017	.05932	R	1,017
LITTLE GOOSE	2046	2061	31,880	31,880	.05809	R	31,880
YAKIMA-CHANDLER	2046	2061	26	26	.05809	R	26
BONNEVILLE	2046	2061	2,685	2,685	.05809	R	2,685
ICE HARBOR	2046	2058	5,015	5,015	.05772	R	5,015
LIBBY	2046	2056	72	72	.05747	R	72
YAKIMA-CHANDLER	2046	2056	62	62	.05747	R	62
LIBBY	2046	2053	72	72	.05696	R	72
ICE HARBOR	2046	2053	26,865	26,865	.05696	R	26,865
MCNARY	2046	2053	30	30	.05696	R	30
LOWER MONUMENTAL	2046	2053	24	24	.05696	R	24
BONNEVILLE	2046	2053	28,656	28,656	.05696	R	28,656
LOOKOUT POINT-DEXTER	2046	2053	16	16	.05696	R	16
LOWER SNAKE F AND W	2046	2053	593	593	.05696	R	593
BONNEVILLE	2046	2051	67,342	67,342	.05642	R	67,342
TOTAL							259,467
2047 MINIDOKA	2047	2077	92	92	.05993	R	92
BOISE	2047	2077	68	68	.05993	R	68
LOST CREEK	2047	2082	18	18	.05993	R	18
BONNEVILLE	2047	2082	16	16	.05993	R	16
GREEN PETER-FOSTER	2047	2087	3,999	3,999	.05993	R	3,999
BOISE	2047	2087	836	836	.05993	R	836
MINIDOKA	2047	2092	4,187	4,187	.05993	R	4,187
COLUMBIA BASIN	2047	2097	147,024	147,024	.05993	R	147,024

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
COLUMBIA BASIN	2047	2072	47,084	47,084	.05932	R	47,084
GREEN PETER-FOSTER	2047	2067	1,011	1,011	.05870	R	1,011
COLUMBIA BASIN	2047	2067	4,888	4,888	.05870	R	4,888
BOISE	2047	2067	147	147	.05870	R	147
MINIDOKA	2047	2062	133	133	.05809	R	133
CHIEF JOSEPH	2047	2062	1,487	1,487	.05809	R	1,487
BOISE	2047	2062	13	13	.05809	R	13
LOWER GRANITE	2047	2059	21	21	.05772	R	21
CHIEF JOSEPH	2047	2057	43	43	.05747	R	43
MINIDOKA	2047	2057	17	17	.05747	R	17
GREEN PETER-FOSTER	2047	2057	23	23	.05747	R	23
GREEN PETER-FOSTER	2047	2055	14	14	.05713	R	14
THE DALLES	2047	2055	74	74	.05713	R	74
LOWER SNAKE F AND W	2047	2055	113	113	.05713	R	113
LOWER GRANITE	2047	2055	33	33	.05713	R	33
JOHN DAY	2047	2054	29	29	.05696	R	29
ICE HARBOR	2047	2052	14,209	14,209	.05642	R	14,209
TOTAL							225,579
2048							
YAKIMA-ROZA	2048	2078	5	5	.05993	R	5
LOWER GRANITE	2048	2083	10,379	10,379	.05993	R	10,379
LITTLE GOOSE	2048	2083	10,210	10,210	.05993	R	10,210
COLUMBIA BASIN	2048	2083	57,215	57,215	.05993	R	57,215
CHIEF JOSEPH	2048	2083	72,602	72,602	.05993	R	72,602
GREEN PETER-FOSTER	2048	2088	17,536	17,536	.05993	R	17,536
YAKIMA-ROZA	2048	2093	220	220	.05993	R	220
DWORSHAK	2048	2073	7,677	7,677	.05932	R	7,677
GREEN PETER-FOSTER	2048	2068	826	826	.05870	R	826
YAKIMA-ROZA	2048	2063	2	2	.05809	R	2
DWORSHAK	2048	2063	3,047	3,047	.05809	R	3,047
THE DALLES	2048	2063	2,039	2,039	.05809	R	2,039
LITTLE GOOSE	2048	2058	1,083	1,083	.05747	R	1,083
COUGAR	2048	2055	2	2	.05696	R	2
LITTLE GOOSE	2048	2055	24	24	.05696	R	24
LOWER SNAKE F AND W	2048	2053	50	50	.05642	R	50
TOTAL							182,917

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2049	LOWER MONUMENTAL	2049	2084	9,862	9,862	.05993	R	9,862
	LOWER MONUMENTAL	2049	2089	10,985	10,985	.05993	R	10,985
	LOWER MONUMENTAL	2049	2069	31,402	31,402	.05870	R	31,402
	THE DALLES	2049	2064	1,322	1,322	.05809	R	1,322
	LOST CREEK	2049	2061	5	5	.05772	R	5
	BONNEVILLE	2049	2061	152	152	.05772	R	152
	THE DALLES	2049	2059	1	1	.05747	R	1
	LOWER MONUMENTAL	2049	2059	12	12	.05747	R	12
	LOST CREEK	2049	2057	1	1	.05713	R	1
	LOWER MONUMENTAL	2049	2057	47	47	.05713	R	47
	THE DALLES	2049	2054	45	45	.05642	R	45
	TOTAL							53,834
2050	JOHN DAY	2050	2090	48,168	48,168	.05993	R	48,168
	LOWER GRANITE	2050	2075	216	216	.05932	R	216
	JOHN DAY	2050	2070	2,073	2,073	.05870	R	2,073
	LOWER GRANITE	2050	2065	18,149	18,149	.05809	R	18,149
	DETROIT-BIG CLIFF	2050	2062	25	25	.05772	R	25
	JOHN DAY	2050	2058	5	5	.05713	R	5
	ICE HARBOR	2050	2058	7,283	7,283	.05713	R	7,283
	DETROIT-BIG CLIFF	2050	2058	5	5	.05713	R	5
	DWORSHAK	2050	2057	18	18	.05696	R	18
	THE DALLES	2050	2057	49	49	.05696	R	49
	TOTAL							75,991
2051	LITTLE GOOSE	2051	2091	10,980	10,980	.05993	R	10,980
	LIBBY	2051	2076	2,738	2,738	.05932	R	2,738
	ICE HARBOR	2051	2076	44	44	.05932	R	44
	LITTLE GOOSE	2051	2071	31,402	31,402	.05870	R	31,402
	LIBBY	2051	2066	1,975	1,975	.05809	R	1,975
	MCNARY	2051	2063	29,850	29,850	.05772	R	29,850
	LOOKOUT POINT-DEXTER	2051	2063	41	41	.05772	R	41
	ALBENI FALLS	2051	2063	137	137	.05772	R	137
	LITTLE GOOSE	2051	2061	12	12	.05747	R	12
	BONNEVILLE	2051	2061	117	117	.05747	R	117
	LOOKOUT POINT-DEXTER	2051	2059	6	6	.05713	R	6
	MCNARY	2051	2059	62	62	.05713	R	62
	LITTLE GOOSE	2051	2059	42	42	.05713	R	42
	GREEN PETER-FOSTER	2051	2058	18	18	.05696	R	18

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	BONNEVILLE	2051	2056	67,342	67,342	.05642	R	67,342
	TOTAL							144,766
2052	ICE HARBOR	2052	2082	376	376	.05993	R	376
	HILLS CREEK	2052	2082	359	359	.05993	R	359
	COLUMBIA BASIN	2052	2087	41,327	41,327	.05993	R	41,327
	BONNEVILLE	2052	2087	73,147	73,147	.05993	R	73,147
	ICE HARBOR	2052	2097	208	208	.05993	R	208
	MINIDOKA	2052	2097	6,393	6,393	.05993	R	6,393
	HILLS CREEK	2052	2097	581	581	.05993	R	581
	LOST CREEK	2052	2077	78	78	.05932	R	78
	BONNEVILLE	2052	2077	14	14	.05932	R	14
	BOISE	2052	2077	22,519	22,519	.05932	R	22,519
	COLUMBIA BASIN	2052	2067	881	881	.05809	R	881
	MINIDOKA	2052	2067	90	90	.05809	R	90
	ICE HARBOR	2052	2062	13,850	13,850	.05747	R	13,850
	COUGAR	2052	2060	4	4	.05713	R	4
	LOWER GRANITE	2052	2059	25	25	.05696	R	25
	DETROIT-BIG CLIFF	2052	2059	2	2	.05696	R	2
	ICE HARBOR	2052	2057	14,209	14,209	.05642	R	14,209
	TOTAL							174,063
2053	LOWER SNAKE F AND W	2053	2088	1,186	1,186	.05993	R	1,186
	DWORSHAK	2053	2093	8,022	8,022	.05993	R	8,022
	HUNGRY HORSE	2053	2103	48,168	48,168	.05993	R	48,168
	LOWER GRANITE	2053	2078	122	122	.05932	R	122
	LITTLE GOOSE	2053	2078	39	39	.05932	R	39
	HUNGRY HORSE	2053	2078	11,194	11,194	.05932	R	11,194
	COLUMBIA BASIN	2053	2078	51,669	51,669	.05932	R	51,669
	CHIEF JOSEPH	2053	2078	356	356	.05932	R	356
	THE DALLES	2053	2073	235	235	.05870	R	235
	HUNGRY HORSE	2053	2073	736	736	.05870	R	736
	DWORSHAK	2053	2073	3,556	3,556	.05870	R	3,556
	LOWER GRANITE	2053	2068	326	326	.05809	R	326
	COLUMBIA BASIN	2053	2068	1,192	1,192	.05809	R	1,192
	CHIEF JOSEPH	2053	2068	210	210	.05809	R	210
	LOWER MONUMENTAL	2053	2065	2,388	2,388	.05772	R	2,388
	LOWER SNAKE F AND W	2053	2063	1,081	1,081	.05747	R	1,081
	DWORSHAK	2053	2063	191	191	.05747	R	191

APPLICATION OF AMORTIZATION

GENERATION FY 2003

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+	DWORSHAK	2053	2061	39	39	.05713	R	39
	BONNEVILLE	2053	2061	4,179	4,179	.05713	R	4,179
	LOWER SNAKE F AND W	2053	2060	593	593	.05696	R	593
	LOOKOUT POINT-DEXTER	2053	2060	16	16	.05696	R	16
	LOWER MONUMENTAL	2053	2060	24	24	.05696	R	24
	LIBBY	2053	2060	72	72	.05696	R	72
	ICE HARBOR	2053	2060	26,865	26,865	.05696	R	26,865
	MCNARY	2053	2060	30	30	.05696	R	30
	BONNEVILLE	2053	2060	28,656	28,656	.05696	R	28,656
	LOWER SNAKE F AND W	2053	2058	50	50	.05642	R	50
	TOTAL							----- 191,195
0	GRAND TOTAL							10,548,842
0	TOTAL DEFERRAL							0
0	NET							----- 10,548,842

CHAPTER 5

**REPAYMENT STUDY INPUT FILES
CURRENT STUDY
FY 2004**

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**The data in Computer File Form Used in
the FY 2004 Current Repayment Study
for Generation**

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1INPUT CARDS ONLY

N1 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL
 N2 OCTOBER 1,2003 - SEPTEMBER 30,2004 COST EVALUATION PERIOD
 N3 REPAY 04 GI00 - GENERATION, 2002 FINAL RATE PROPOSAL
 N0 GENERATION

11999 0 0 770437 200420542054
 OHISTORICAL YEAR: 1999
 HISTORICAL CUMULATIVE REVENUES: 0
 HISTORICAL CUMULATIVE PURCHASE & EXCHANGE: 0
 HISTORICAL CUMULATIVE IRRIGATION INVESTMENT: 770437
 YEAR OF THE RATE CHANGE: 2004
 LAST YEAR OF REPAYMENT PERIOD: 2054

INTEREST RATES OF INTEREST INCOME

1X06839 06827 06914 06931 06830 06836

INTEREST RATES OF NEW DEFERRALS

1Y07500 07625 07500 07250 07125 06875

OPERATING YEAR FACTORS

1F75000 75000 75000 75000 75000 75000

PROJECTED REVENUE

22000	949360	977980	1008938	990615	1033336	1033376	1033376	7026981
22007	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22014	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22021	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22028	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22035	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22042	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22049	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22056	1033376	1033376	1033376	1033376	1033376	1033376	1033376	5166880
	9216368	9244988	9275946	9257623	9300344	8267008	8267008	62829285 = TOTAL FOR 2

PROJECTED IRRIGATION ASSISTANCE

	NEW INVESTMENT	NEW INVESTMENT	NEW INVESTMENT	
32000	0	0	0	0
32003	0	0	0	0
32006	0	0	0	0
32009	0	6942	6566	13508
32012	3476	19793	37530	60799
32015	5107	5394	35253	45754
32018	51187	10902	21258	83347
32021	39207	39049	29080	107336
32024	41806	20037	33228	95071

32027	32228	33386	44797		110411
32030	29963	29963	44797		104723
32033	40424	40424	29207		110055
32036	28549	28708	29310		86567
32039	29311	33835	33836		96982
32042	34694	34695	32941		102330
32045	32941	33099	39725		105765
32048	39883	39883	23256		103022
32051	23415	24346	31316		79077
32054	31316	31316	24194		86826
32057	24352	36906	37068		98326
32060	34318				34318
	522177	468678	0		1524217 = TOTAL FOR 3

CAPITALIZED CONTRACTUAL OBLIGATIONS

42000	647803	641433	567253	607002	595031	542149	575913	4176584
42007	592412	604796	587274	585491	605065	627264	384546	3986848
42014	379091	375036	365132	288805	126988	337748	337753	2210553
42021	334814	335312	335535	322070	321178	320622	320622	2290153
42028	320622	320622	319622	319622	319622	319622	319622	2239354
42035	319622	319622	319622	319622	319622	319622	319622	2237354
42042	319622	319622	319622	319622	319622	319622	319622	2237354
42049	319622	319622	319622	319622	319622	319622	0	1917732
	3233608	3236065	3133682	3081856	2926750	3106271	2577700	21295932 = TOTAL FOR 4

5	ALBE	ALBENI FALLS
5	BOIS	BOISE
5	BON2	BONNEVILLE - 2ND POWER HOUSE
5	BONN	BONNEVILLE
5	CHIE	CHIEF JOSEPH
5	COL3	COLUMBIA BASIN - 3RD PWR HOUSE
5	COLU	COLUMBIA BASIN
5	COUG	COUGAR
5	CRFB	COLUMBIA RIVER FISH MITIGATION
5	DETR	DETROIT-BIG CLIFF
5	DWOR	DWORSHAK
5	GREE	GREEN PETER-FOSTER
5	HILL	HILLS CREEK
5	HUNG	HUNGRY HORSE
5	ICEF	ICE HARBOR FISH BYPASS
5	ICEH	ICE HARBOR
5	JOHN	JOHN DAY
5	LIBB	LIBBY
5	LITF	LITTLE GOOSE FISH BYPASS
5	LITT	LITTLE GOOSE
5	LOGF	LOWER GRANITE FISH BYPASS
5	LOMF	LOWER MONUMENTAL FISH BYPASS
5	LOOK	LOOKOUT POINT-DEXTER
5	LOST	LOST CREEK
5	LOWG	LOWER GRANITE

5	LOWM	LOWER MONUMENTAL
5	LSFW	LOWER SNAKE F AND W
5	MCNA	MCNARY
5	MCNF	MCNARY FISH BYPASS
5	MINI	MINIDOKA
5	STRU	STRUBE
5	THED	THE DALLES
5	YAKC	YAKIMA-CHANDLER
5	YAKR	YAKIMA-ROZA
5	ZABF	BPA PROGRAM
5	ZACO	BPA CONSERVATION
5	ZADB	BUREAU DIRECT FUND
5	ZAFW	FISH, WILDLIFE & ENVIRONMENTAL
5	ZBPA	BONNEVILLE POWER ADMINISTRATION
5	ZIRR	IRRIGATION ASSISTANCE

HISTORICAL
O & M INTEREST

5	ALBEX	46124	28741	74865
5	BOISX	37894	1219	39113
5	BONNX	159278	404368	563646
5	CHIEX	157353	341762	499115
5	COLUX	439614	523602	963216
5	COUGX	8325	14094	22419
5	CRFBX	0	10685	10685
5	DETRX	28066	36358	64424
5	DWORX	86776	181080	267856
5	GREEX	25086	36298	61384
5	HILLX	7982	14445	22427
5	HUNGX	35067	51482	86549
5	ICEHX	68783	103828	172611
5	JOHNX	130461	272420	402881
5	LIBBX	54613	267605	322218
5	LITTX	64213	154450	218663
5	LOOKX	32943	44304	77247
5	LOSTX	14656	16439	31095
5	LOWGX	86708	208147	294855
5	LOWMX	64436	168805	233241
5	LSFWX	109509	108916	218425
5	MCNAX	167850	243309	411159
5	MINIX	79765	2794	82559
5	THEDX	124576	233403	357979
5	YAKCX	19378	2916	22294
5	YAKRX	9178	824	10002
5	ZBPAX	0	0	0
5	ZACOX	0	0	0
		2058634	3472294	5530928 = TOTAL FOR 5

PROJECTED O & M

0

0 = TOTAL FOR 6

61994ZABF

0

0

0 = TOTAL FOR 6

HISTORICAL FEDERAL INVESTMENTS

			ORIGINAL	CURRENT	INTEREST	DUE	INSERVICE	CALENDAR
	PROJECT		PRINCIPAL	PRINCIPAL	RATE	DATE	DATE	MONTH
6	1998	ALBE X	25494	16854	.06910	2005		1955
6	1998	ALBE X	11	11	.06910	2005 R		1956
6	1998	ALBE X	10	10	.06910	2005 R		1957
6	1998	ALBE X	11	11	.06910	2005 R		1958
6	1998	ALBE X	11	11	.06910	2005 R		1959
6	1998	ALBE X	10	10	.06910	2005 R		1960
6	1998	ALBE X	11	11	.06910	2005 R		1961
6	1998	ALBE X	11	11	.06910	2005 R		1962
6	1998	ALBE X	10	10	.06910	2005 R		1963
6	1998	ALBE X	11	11	.06910	2005 R		1964
6	1998	ALBE X	11	11	.06910	2005 R		1965
6	1998	ALBE X	10	10	.06910	2005 R		1966
6	1998	ALBE X	11	11	.06910	2005 R		1967
6	1998	ALBE X	11	11	.06910	2005 R		1968
6	1998	ALBE X	10	10	.06910	2005 R		1969
6	1998	ALBE X	11	11	.06910	2005 R		1970
6	1998	ALBE X	11	11	.06910	2005 R		1971
6	1998	ALBE X	10	10	.06910	2005 R		1972
6	1998	ALBE X	11	11	.06910	2005 R		1973
6	1998	ALBE X	11	11	.06910	2005 R		1974
6	1998	ALBE X	10	10	.06910	2005 R		1975
6	1998	ALBE X	11	11	.06910	2005 R		1976
6	1998	ALBE X	11	11	.06910	2005 R		1977
6	1998	ALBE X	10	10	.06910	2005 R		1978
6	1998	ALBE X	11	11	.06910	2005 R		1979
6	1998	ALBE X	11	11	.06910	2005 R		1980
6	1998	ALBE X	10	10	.06910	2005 R		1981
6	1998	ALBE X	11	11	.06910	2005 R		1982
6	1998	ALBE X	11	11	.06910	2005 R		1983
6	1998	ALBE X	7	7	.06910	2005		1985
6	1998	ALBE X	293	293	.06910	2005		1986
6	1998	ALBE X	15	0	.08875	2005 R		1987
6	1998	ALBE X	12	12	.06910	2005		1987
6	1998	ALBE X	328	0	.08500	2005 R		1988
6	1998	ALBE X	221	0	.09250	2005 R		1989
6	1998	ALBE X	1287	0	.08875	2005		1990
6	1998	ALBE X	43	0	.08750	2005 R		1991
6	1998	ALBE X	111	0	.08750	2005		1991
6	1998	ALBE X	7	0	.08500	2005 R		1992
6	1998	ALBE X	106	0	.08500	2005		1992
6	1998	ALBE X	714	0	.07875	2005 R		1993
6	1998	ALBE X	295	0	.07875	2005		1993
6	1998	ALBE X	61	0	.07125	2019 R		1994
6	1998	ALBE X	173	0	.07125	2019		1994
6	1998	ALBE X	17	17	.07090	2010		1995
6	1998	ALBE X	51	0	.07890	2010		1995

6	1998	ALBE X	443	443	.07150	2045	1995
6	1998	ALBE X	531	531	.07150	2045	1995
6	1998	ALBE X	1105	1105	.07150	2045	1995
6	1998	ALBE X	130	130	.07290	2016	1996
6	1998	ALBE X	477	477	.07150	2047	1997
6	1998	BOIS X	1249	0	.03000	1962	1912
6	1998	BOIS X	285	0	.03000	1962	1912
6	1998	BOIS X	832	0	.03000	1976	1926
6	1998	BOIS X	190	0	.03000	1976	1926
6	1998	BOIS X	416	0	.03000	2000	1950
6	1998	BOIS X	95	0	.03000	2000	1950
6	1998	BOIS X	1873	0	.03000	2001	1951
6	1998	BOIS X	428	0	.03000	2001	1951
6	1998	BOIS X	11	0	.03000	2001 R	1952
6	1998	BOIS X	3	0	.03000	2001 R	1952
6	1998	BOIS X	11	0	.03000	2001 R	1953
6	1998	BOIS X	3	0	.03000	2001 R	1953
6	1998	BOIS X	11	0	.03000	2001 R	1954
6	1998	BOIS X	3	0	.03000	2001 R	1954
6	1998	BOIS X	11	0	.03000	2001 R	1955
6	1998	BOIS X	3	0	.03000	2001 R	1955
6	1998	BOIS X	11	0	.03000	2001 R	1956
6	1998	BOIS X	3	0	.03000	2001 R	1956
6	1998	BOIS X	11	0	.03000	2001 R	1957
6	1998	BOIS X	3	0	.03000	2001 R	1957
6	1998	BOIS X	11	0	.03000	2001 R	1958
6	1998	BOIS X	3	0	.03000	2001 R	1958
6	1998	BOIS X	11	0	.03000	2001 R	1959
6	1998	BOIS X	3	0	.03000	2001 R	1959
6	1998	BOIS X	11	0	.03000	2001 R	1960
6	1998	BOIS X	3	0	.03000	2001 R	1960
6	1998	BOIS X	11	0	.03000	2001 R	1961
6	1998	BOIS X	3	0	.03000	2001 R	1961
6	1998	BOIS X	11	0	.03000	2001 R	1962
6	1998	BOIS X	3	0	.03000	2001 R	1962
6	1998	BOIS X	11	0	.03000	2001 R	1963
6	1998	BOIS X	3	0	.03000	2001 R	1963
6	1998	BOIS X	11	0	.03000	2001 R	1964
6	1998	BOIS X	3	0	.03000	2001 R	1964
6	1998	BOIS X	11	0	.03000	2001 R	1965
6	1998	BOIS X	3	0	.03000	2001 R	1965
6	1998	BOIS X	11	0	.03000	2001 R	1966
6	1998	BOIS X	3	0	.03000	2001 R	1966
6	1998	BOIS X	11	0	.03000	2001 R	1967
6	1998	BOIS X	3	0	.03000	2001 R	1967
6	1998	BOIS X	11	0	.03000	2001 R	1968
6	1998	BOIS X	3	0	.03000	2001 R	1968
6	1998	BOIS X	11	0	.03000	2001 R	1969
6	1998	BOIS X	3	0	.03000	2001 R	1969
6	1998	BOIS X	11	0	.03000	2001 R	1970
6	1998	BOIS X	3	0	.03000	2001 R	1970
6	1998	BOIS X	11	0	.03000	2001 R	1971
6	1998	BOIS X	3	0	.03000	2001 R	1971

6	1998	BOIS X	11	0	.03000	2001 R	1972
6	1998	BOIS X	3	0	.03000	2001 R	1972
6	1998	BOIS X	11	0	.03000	2001 R	1973
6	1998	BOIS X	3	0	.03000	2001 R	1973
6	1998	BOIS X	11	0	.03000	2001 R	1974
6	1998	BOIS X	3	0	.03000	2001 R	1974
6	1998	BOIS X	11	0	.03000	2001 R	1975
6	1998	BOIS X	3	0	.03000	2001 R	1975
6	1998	BOIS X	11	0	.03000	2001 R	1976
6	1998	BOIS X	3	0	.03000	2001 R	1976
6	1998	BOIS X	11	0	.03000	2001 R	1977
6	1998	BOIS X	3	0	.03000	2001 R	1977
6	1998	BOIS X	11	0	.03000	2001 R	1978
6	1998	BOIS X	3	0	.03000	2001 R	1978
6	1998	BOIS X	11	0	.03000	2001 R	1979
6	1998	BOIS X	3	0	.03000	2001 R	1979
6	1998	BOIS X	18	0	.03000	2001 R	1980
6	1998	BOIS X	4	0	.03000	2001 R	1980
6	1998	BOIS X	8	0	.03000	2001 R	1981
6	1998	BOIS X	2	0	.03000	2001 R	1981
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1325	0	.10750	2001 R	1984
6	1998	BOIS X	303	0	.10750	2001 R	1984
6	1998	BOIS X	94	89	.06710	2001	1986
6	1998	BOIS X	3	0	.08500	2001	1988
6	1998	BOIS X	3264	0	.09250	2001 R	1989
6	1998	BOIS X	38	0	.08875	2001 R	1990
6	1998	BOIS X	50	0	.08750	2001 R	1991
6	1998	BOIS X	418	0	.07875	2001	1993
6	1998	BOIS X	7	0	.07125	1999 R	1994
6	1998	BOIS X	450	450	.07150	2046	1996
6	1998	BOIS X	7	7	.06950	2006	1996
6	1998	BOIS X	656	656	.07150	2046	1996
6	1998	BOIS X	9	9	.06950	2007	1997
6	1998	BOIS X	2284	2284	.07150	2047	1997
6	1998	BON2 X	40964	40964	.07150	2031 A	1981
6	1998	BON2 X	455	455	.07150	2031 A	1981
6	1998	BON2 X	203535	203535	.07150	2032 A	1982
6	1998	BON2 X	2264	2264	.07150	2032 A	1982
6	1998	BON2 X	62409	62409	.07150	2033 A	1983
6	1998	BON2 X	694	694	.07150	2033 A	1983
6	1998	BON2 X	9138	9138	.07150	2033 A	1985
6	1998	BON2 X	30578	30578	.07150	2033 A	1986
6	1998	BON2 X	2801	2801	.07150	2033 A	1987
6	1998	BON2 X	1271	1271	.07150	2033 A	1988
6	1998	BON2 X	1232	1232	.07150	2033 A	1989
6	1998	BON2 X	1588	1588	.07150	2033 A	1990
6	1998	BON2 X	3998	0	.08750	2033 A	1991
6	1998	BON2 X	26	0	.08750	2033 R	1991
6	1998	BON2 X	2446	0	.08500	2033 A	1992

6	1998	BON2	X	3668	0	.07875	2033	A	1993
6	1998	BON2	X	5700	5700	.07150	2044	A	1994
6	1998	BON2	X	3791	3791	.07150	2045		1995
6	1998	BON2	X	376	376	.07150	2046		1996
6	1998	BONN	X	11726	0	.02500	1988		1938
6	1998	BONN	X	130	0	.02500	1988		1938
6	1998	BONN	X	17589	0	.02500	1991		1941
6	1998	BONN	X	196	0	.02500	1991		1941
6	1998	BONN	X	5863	0	.02500	1992		1942
6	1998	BONN	X	65	0	.02500	1992		1942
6	1998	BONN	X	17589	0	.02500	1993		1943
6	1998	BONN	X	196	0	.02500	1993		1943
6	1998	BONN	X	5860	0	.02500	1994		1944
6	1998	BONN	X	65	0	.02500	1994		1944
6	1998	BONN	X	82	0	.02500	1994	R	1945
6	1998	BONN	X	1	0	.02500	1994	R	1945
6	1998	BONN	X	81	0	.02500	1994	R	1946
6	1998	BONN	X	1	0	.02500	1994	R	1946
6	1998	BONN	X	82	0	.02500	1994	R	1947
6	1998	BONN	X	1	0	.02500	1994	R	1947
6	1998	BONN	X	81	0	.02500	1994	R	1948
6	1998	BONN	X	1	0	.02500	1994	R	1948
6	1998	BONN	X	82	0	.02500	1994	R	1949
6	1998	BONN	X	1	0	.02500	1994	R	1949
6	1998	BONN	X	81	0	.02500	1994	R	1950
6	1998	BONN	X	11	0	.02500	1994	R	1950
6	1998	BONN	X	81	0	.02500	1994	R	1951
6	1998	BONN	X	11	0	.02500	1994	R	1951
6	1998	BONN	X	82	0	.02500	1994	R	1952
6	1998	BONN	X	1	0	.02500	1994	R	1952
6	1998	BONN	X	81	0	.02500	1994	R	1953
6	1998	BONN	X	1	0	.02500	1994	R	1953
6	1998	BONN	X	82	0	.02500	1994	R	1954
6	1998	BONN	X	1	0	.02500	1994	R	1954
6	1998	BONN	X	81	0	.02500	1994	R	1955
6	1998	BONN	X	1	0	.02500	1994	R	1955
6	1998	BONN	X	81	0	.02500	1994	R	1956
6	1998	BONN	X	1	0	.02500	1994	R	1956
6	1998	BONN	X	82	0	.02500	1994	R	1957
6	1998	BONN	X	1	0	.02500	1994	R	1957
6	1998	BONN	X	81	0	.02500	1994	R	1958
6	1998	BONN	X	1	0	.02500	1994	R	1958
6	1998	BONN	X	82	0	.02500	1994	R	1959
6	1998	BONN	X	1	0	.02500	1994	R	1959
6	1998	BONN	X	81	0	.02500	1994	R	1960
6	1998	BONN	X	1	0	.02500	1994	R	1960
6	1998	BONN	X	81	0	.02500	1994	R	1961
6	1998	BONN	X	1	0	.02500	1994	R	1961
6	1998	BONN	X	82	0	.02500	1994	R	1962
6	1998	BONN	X	1	0	.02500	1994	R	1962
6	1998	BONN	X	81	0	.02500	1994	R	1963
6	1998	BONN	X	1	0	.02500	1994	R	1963
6	1998	BONN	X	82	0	.02500	1994	R	1964

6	1998	BONN	X	1	0	.02500	1994	R	1964
6	1998	BONN	X	81	0	.02500	1994	R	1965
6	1998	BONN	X	1	0	.02500	1994	R	1965
6	1998	BONN	X	81	0	.02500	1994	R	1966
6	1998	BONN	X	1	0	.02500	1994	R	1966
6	1998	BONN	X	82	0	.02500	1994	R	1967
6	1998	BONN	X	1	0	.02500	1994	R	1967
6	1998	BONN	X	81	0	.02500	1994	R	1968
6	1998	BONN	X	1	0	.02500	1994	R	1968
6	1998	BONN	X	82	0	.02500	1994	R	1969
6	1998	BONN	X	1	0	.02500	1994	R	1969
6	1998	BONN	X	81	0	.02500	1994	R	1970
6	1998	BONN	X	1	0	.02500	1994	R	1970
6	1998	BONN	X	81	0	.02500	1994	R	1971
6	1998	BONN	X	1	0	.02500	1994	R	1971
6	1998	BONN	X	82	0	.02500	1994	R	1972
6	1998	BONN	X	1	0	.02500	1994	R	1972
6	1998	BONN	X	81	0	.02500	1994	R	1973
6	1998	BONN	X	1	0	.02500	1994	R	1973
6	1998	BONN	X	82	0	.02500	1994	R	1974
6	1998	BONN	X	1	0	.02500	1994	R	1974
6	1998	BONN	X	81	0	.02500	1994	R	1975
6	1998	BONN	X	1	0	.02500	1994	R	1975
6	1998	BONN	X	81	0	.02500	1994	R	1976
6	1998	BONN	X	1	0	.02500	1994	R	1976
6	1998	BONN	X	15670	15670	.07150	2027	B	1977
6	1998	BONN	X	82	0	.02500	1994	R	1977
6	1998	BONN	X	1	0	.02500	1994	R	1977
6	1998	BONN	X	81	0	.02500	1994	R	1978
6	1998	BONN	X	1	0	.02500	1994	R	1978
6	1998	BONN	X	82	0	.02500	1994	R	1979
6	1998	BONN	X	1	0	.02500	1994	R	1979
6	1998	BONN	X	81	0	.02500	1994	R	1980
6	1998	BONN	X	1	0	.02500	1994	R	1980
6	1998	BONN	X	81	0	.02500	1994	R	1981
6	1998	BONN	X	1	0	.02500	1994	R	1981
6	1998	BONN	X	82	0	.02500	1994	R	1982
6	1998	BONN	X	2	0	.02500	1994	R	1982
6	1998	BONN	X	81	0	.02500	1994	R	1983
6	1998	BONN	X	1	0	.02500	1994	R	1983
6	1998	BONN	X	873	0	.10750	1994	R	1984
6	1998	BONN	X	10	0	.10750	1994	R	1984
6	1998	BONN	X	119	0	.02500	1994		1985
6	1998	BONN	X	454	0	.11375	1994	R	1986
6	1998	BONN	X	555	0	.02500	1994		1986
6	1998	BONN	X	26	0	.08875	1994	R	1987
6	1998	BONN	X	260	0	.02500	1994		1987
6	1998	BONN	X	4199	0	.08500	1994		1988
6	1998	BONN	X	10	0	.08500	1994	R	1988
6	1998	BONN	X	877	0	.09250	1994	R	1989
6	1998	BONN	X	519	0	.08875	1994	R	1990
6	1998	BONN	X	651	0	.08875	1994	A	1990
6	1998	BONN	X	35	0	.08750	1994	R	1991

6	1998	BONN	X	3193	0	.08750	1994	1991
6	1998	BONN	X	99	0	.08500	1994	R 1992
6	1998	BONN	X	25	0	.08500	1994	1992
6	1998	BONN	X	5011	0	.07875	2018	1993
6	1998	BONN	X	536	0	.07125	2029	A 1994
6	1998	BONN	X	8	0	.07330	2000	1995
6	1998	BONN	X	20	20	.07250	2020	1995
6	1998	BONN	X	22	22	.07250	2020	R 1995
6	1998	BONN	X	25	25	.07090	2010	R 1995
6	1998	BONN	X	53	0	.07860	2030	1995
6	1998	BONN	X	98	0	.07860	2035	1995
6	1998	BONN	X	327	243	.07150	2045	1995
6	1998	BONN	X	410	410	.07150	2045	R 1995
6	1998	BONN	X	374	0	.07860	2045	R 1995
6	1998	BONN	X	440	440	.07150	2045	R 1995
6	1998	BONN	X	18	18	.07150	2046	1996
6	1998	BONN	X	18	18	.07150	2046	1996
6	1998	BONN	X	22	22	.07150	2031	1996
6	1998	BONN	X	80	80	.07150	2046	1996
6	1998	BONN	X	109	109	.07150	2046	1996
6	1998	BONN	X	142	142	.07150	2046	1996
6	1998	BONN	X	223	223	.07150	2046	1996
6	1998	BONN	X	751	751	.07150	2046	1996
6	1998	BONN	X	834	834	.07290	2016	R 1996
6	1998	BONN	X	1322	1322	.07150	2046	R 1996
6	1998	BONN	X	122	122	.07230	2022	1997
6	1998	BONN	X	518	518	.07150	2032	1997
6	1998	BONN	X	161	161	.07150	2047	1997
6	1999	BONN	X	29984	29984	.05325	2044	1999
6	1998	CHIE	X	28313	2262	.06910	2005	1955
6	1998	CHIE	X	13643	13643	.06950	2006	1956
6	1998	CHIE	X	39586	39586	.06980	2007	1957
6	1998	CHIE	X	31901	31901	.07020	2008	1958
6	1998	CHIE	X	223	223	.07020	2008	R 1959
6	1998	CHIE	X	223	223	.07020	2008	R 1960
6	1998	CHIE	X	223	223	.07020	2008	R 1961
6	1998	CHIE	X	223	223	.07020	2008	R 1962
6	1998	CHIE	X	224	224	.07020	2008	R 1963
6	1998	CHIE	X	223	223	.07020	2008	R 1964
6	1998	CHIE	X	223	223	.07020	2008	R 1965
6	1998	CHIE	X	223	223	.07020	2008	R 1966
6	1998	CHIE	X	223	223	.07020	2008	R 1967
6	1998	CHIE	X	224	224	.07020	2008	R 1968
6	1998	CHIE	X	223	223	.07020	2008	R 1969
6	1998	CHIE	X	223	223	.07020	2008	R 1970
6	1998	CHIE	X	223	223	.07020	2008	R 1971
6	1998	CHIE	X	223	223	.07020	2008	R 1972
6	1998	CHIE	X	224	224	.07020	2008	R 1973
6	1998	CHIE	X	223	223	.07020	2008	R 1974
6	1998	CHIE	X	223	223	.07020	2008	R 1975
6	1998	CHIE	X	223	223	.07020	2008	R 1976
6	1998	CHIE	X	30512	30512	.07150	2027	A 1977
6	1998	CHIE	X	223	223	.07020	2008	R 1977

6	1998	CHIE X	75669	75669	.07150	2028 A	1978
6	1998	CHIE X	224	224	.07020	2008 R	1978
6	1998	CHIE X	60079	60079	.07150	2029 A	1979
6	1998	CHIE X	223	223	.07020	2008 R	1979
6	1998	CHIE X	223	223	.07020	2008 R	1980
6	1998	CHIE X	223	223	.07020	2008 R	1981
6	1998	CHIE X	223	223	.07020	2008 R	1982
6	1998	CHIE X	224	224	.07020	2008 R	1983
6	1998	CHIE X	909	0	.10750	2008 R	1984
6	1998	CHIE X	16372	16372	.07150	2029 A	1985
6	1998	CHIE X	46	46	.07020	2008	1985
6	1998	CHIE X	5363	5363	.07150	2029 A	1986
6	1998	CHIE X	104	0	.08875	2008 R	1987
6	1998	CHIE X	3036	3036	.07150	2029 A	1987
6	1998	CHIE X	2722	2722	.07150	2029 A	1988
6	1998	CHIE X	327	0	.09250	2008 R	1989
6	1998	CHIE X	2227	2227	.07150	2029 A	1989
6	1998	CHIE X	4505	4505	.07150	2029	1990
6	1998	CHIE X	1024	0	.08875	2008 A	1990
6	1998	CHIE X	3840	0	.08750	2029 A	1991
6	1998	CHIE X	34	0	.08750	2008 R	1991
6	1998	CHIE X	293	0	.08750	2008	1991
6	1998	CHIE X	2032	0	.08500	2029 A	1992
6	1998	CHIE X	142	0	.08500	2008 R	1992
6	1998	CHIE X	717	0	.08500	2008	1992
6	1998	CHIE X	42	0	.07875	2008 R	1993
6	1998	CHIE X	794	0	.07875	2008	1993
6	1998	CHIE X	1360	0	.07875	2029 A	1993
6	1998	CHIE X	129	0	.07125	2029	1994
6	1998	CHIE X	65	0	.07125	2029 R	1994
6	1998	CHIE X	4280	4017	.07150	2044 A	1994
6	1998	CHIE X	15	15	.07090	2010	1995
6	1998	CHIE X	147	147	.07150	2045	1995
6	1998	CHIE X	562	562	.07150	2045	1995
6	1998	CHIE X	712	712	.07150	2045 R	1995
6	1998	CHIE X	784	784	.07150	2045	1995
6	1998	CHIE X	3	3	.07150	2046 R	1996
6	1998	CHIE X	4	4	.07150	2046 R	1996
6	1998	CHIE X	27	27	.07150	2031 R	1996
6	1998	CHIE X	355	355	.07150	2046	1996
6	1998	CHIE X	729	729	.07150	2046	1996
6	1998	CHIE X	166	166	.07150	2032	1997
6	1998	CHIE X	657	657	.07150	2047	1997
6	1998	COL3 X	47328	36690	.07160	2025 A	1975
6	1998	COL3 X	8702	7435	.07160	2025 A	1975
6	1998	COL3 X	41330	41330	.07150	2026 A	1976
6	1998	COL3 X	8037	8037	.07150	2026 A	1976
6	1998	COL3 X	42764	42764	.07150	2027 A	1977
6	1998	COL3 X	7964	7964	.07150	2027 A	1977
6	1998	COL3 X	42399	42399	.07150	2028 A	1978
6	1998	COL3 X	7896	7896	.07150	2028 A	1978
6	1998	COL3 X	84118	84118	.07150	2029 A	1979
6	1998	COL3 X	15666	15666	.07150	2029 A	1979

6	1998	COL3	X	712	712	.07150	2033	B	1983
6	1998	COL3	X	13003	13003	.07150	2033	A	1983
6	1998	COL3	X	16965	16965	.07150	2033	A	1984
6	1998	COL3	X	13192	13192	.07150	2033	A	1984
6	1998	COL3	X	3160	3160	.07150	2033	A	1984
6	1998	COL3	X	41772	41772	.07150	2033	A	1985
6	1998	COL3	X	107	107	.07150	2033		1985
6	1998	COL3	X	2060	2060	.07150	2033		1985
6	1998	COL3	X	15538	15538	.07150	2033	A	1986
6	1998	COL3	X	1851	1851	.07150	2033	A	1986
6	1998	COL3	X	14439	14439	.07150	2033	A	1987
6	1998	COL3	X	1730	1730	.07150	2033	A	1987
6	1998	COL3	X	4351	4351	.07150	2033	A	1988
6	1998	COL3	X	2294	2294	.07150	2033	A	1988
6	1998	COL3	X	10902	10902	.07150	2033	A	1989
6	1998	COL3	X	6383	6383	.07150	2033	A	1990
6	1998	COL3	X	39	0	.08750	2033	A	1991
6	1998	COL3	X	1360	0	.08500	2033	A	1992
6	1998	COL3	X	12962	0	.07875	2033	A	1993
6	1998	COL3	X	12631	12631	.07150	2044	A	1994
6	1998	COLU	X	10919	0	.03000	1991		1941
6	1998	COLU	X	1505	0	.03000	1991		1941
6	1998	COLU	X	16165	0	.03000	1992		1942
6	1998	COLU	X	3011	0	.03000	1992		1942
6	1998	COLU	X	8083	0	.03000	1993		1943
6	1998	COLU	X	1505	0	.03000	1993		1943
6	1998	COLU	X	16165	0	.03000	1994		1944
6	1998	COLU	X	3011	0	.03000	1994		1944
6	1998	COLU	X	24247	0	.03000	1998		1948
6	1998	COLU	X	4516	0	.03000	1998		1948
6	1998	COLU	X	24247	0	.03000	1999		1949
6	1998	COLU	X	4516	0	.03000	1999		1949
6	1998	COLU	X	16165	0	.03000	2000		1950
6	1998	COLU	X	3011	0	.03000	2000		1950
6	1998	COLU	X	28255	7719	.06710	2001		1951
6	1998	COLU	X	5790	1437	.06710	2001		1951
6	1998	COLU	X	258	258	.06710	2001	R	1952
6	1998	COLU	X	48	48	.06710	2001	R	1952
6	1998	COLU	X	258	258	.06710	2001	R	1953
6	1998	COLU	X	48	48	.06710	2001	R	1953
6	1998	COLU	X	258	258	.06710	2001	R	1954
6	1998	COLU	X	48	48	.06710	2001	R	1954
6	1998	COLU	X	258	258	.06710	2001	R	1955
6	1998	COLU	X	48	48	.06710	2001	R	1955
6	1998	COLU	X	259	259	.06710	2001	R	1956
6	1998	COLU	X	48	48	.06710	2001	R	1956
6	1998	COLU	X	258	258	.06710	2001	R	1957
6	1998	COLU	X	48	48	.06710	2001	R	1957
6	1998	COLU	X	258	258	.06710	2001	R	1958
6	1998	COLU	X	48	48	.06710	2001	R	1958
6	1998	COLU	X	258	258	.06710	2001	R	1959
6	1998	COLU	X	48	48	.06710	2001	R	1959
6	1998	COLU	X	258	258	.06710	2001	R	1960

6	1998	COLU X	48	48	.06710	2001 R	1960
6	1998	COLU X	259	259	.06710	2001 R	1961
6	1998	COLU X	48	48	.06710	2001 R	1961
6	1998	COLU X	258	258	.06710	2001 R	1962
6	1998	COLU X	48	48	.06710	2001 R	1962
6	1998	COLU X	258	258	.06710	2001 R	1963
6	1998	COLU X	48	48	.06710	2001 R	1963
6	1998	COLU X	258	258	.06710	2001 R	1964
6	1998	COLU X	48	48	.06710	2001 R	1964
6	1998	COLU X	258	258	.06710	2001 R	1965
6	1998	COLU X	48	48	.06710	2001 R	1965
6	1998	COLU X	259	258	.06710	2001 R	1966
6	1998	COLU X	48	48	.06710	2001 R	1966
6	1998	COLU X	258	258	.06710	2001 R	1967
6	1998	COLU X	758	758	.07290	2017 B	1967
6	1998	COLU X	48	48	.06710	2001 R	1967
6	1998	COLU X	258	258	.06710	2001 R	1968
6	1998	COLU X	48	48	.06710	2001 R	1968
6	1998	COLU X	258	258	.06710	2001 R	1969
6	1998	COLU X	48	48	.06710	2001 R	1969
6	1998	COLU X	258	258	.06710	2001 R	1970
6	1998	COLU X	48	48	.06710	2001 R	1970
6	1998	COLU X	259	259	.06710	2001 R	1971
6	1998	COLU X	48	48	.06710	2001 R	1971
6	1998	COLU X	258	258	.06710	2001 R	1972
6	1998	COLU X	48	48	.06710	2001 R	1972
6	1998	COLU X	258	258	.06710	2001 R	1973
6	1998	COLU X	48	48	.06710	2001 R	1973
6	1998	COLU X	258	258	.06710	2001 R	1974
6	1998	COLU X	48	48	.06710	2001 R	1974
6	1998	COLU X	258	258	.06710	2001 R	1975
6	1998	COLU X	48	48	.06710	2001 R	1975
6	1998	COLU X	259	259	.06710	2001 R	1976
6	1998	COLU X	48	48	.06710	2001 R	1976
6	1998	COLU X	258	258	.06710	2001 R	1977
6	1998	COLU X	48	48	.06710	2001 R	1977
6	1998	COLU X	258	258	.06710	2001 R	1978
6	1998	COLU X	48	48	.06710	2001 R	1978
6	1998	COLU X	258	258	.06710	2001 R	1979
6	1998	COLU X	48	48	.06710	2001 R	1979
6	1998	COLU X	258	258	.06710	2001 R	1980
6	1998	COLU X	48	48	.06710	2001 R	1980
6	1998	COLU X	259	259	.06710	2001 R	1981
6	1998	COLU X	48	48	.06710	2001 R	1981
6	1998	COLU X	258	258	.06710	2001 R	1982
6	1998	COLU X	48	48	.06710	2001 R	1982
6	1998	COLU X	258	258	.06710	2001 R	1983
6	1998	COLU X	48	48	.06710	2001 R	1983
6	1998	COLU X	7815	0	.10750	2001 R	1984
6	1998	COLU X	1455	0	.10750	2001 R	1984
6	1998	COLU X	7338	0	.12375	2001 R	1985
6	1998	COLU X	236	236	.06710	2001	1985
6	1998	COLU X	362	0	.12375	2001	1985

6	1998	COLU X	11	11	.06710	2001	1985
6	1998	COLU X	127	127	.06710	2001	1986
6	1998	COLU X	13	13	.06710	2001	1987
6	1998	COLU X	184	0	.08500	2001 R	1988
6	1998	COLU X	2	0	.08500	2001 R	1988
6	1998	COLU X	1166	0	.09250	2001 R	1989
6	1998	COLU X	928	0	.08875	2001 R	1990
6	1998	COLU X	177	0	.08750	2001	1991
6	1998	COLU X	1661	0	.08750	2001 R	1991
6	1998	COLU X	445	0	.08500	2001 R	1992
6	1998	COLU X	652	0	.08500	2001 R	1992
6	1998	COLU X	795	45	.06710	2001	1993
6	1998	COLU X	20	0	.07860	2030	1995
6	1998	COLU X	25	25	.07150	2030	1995
6	1998	COLU X	25	25	.06620	2000	1995
6	1998	COLU X	206	0	.07250	2020	1995
6	1998	COLU X	270	0	.07860	2030	1995
6	1998	COLU X	321	0	.07860	2030 R	1995
6	1998	COLU X	323	0	.07860	2030 R	1995
6	1998	COLU X	450	0	.07860	2045 R	1995
6	1998	COLU X	292	292	.07150	2045 R	1995
6	1998	COLU X	2511	2453	.07150	2045	1995
6	1998	COLU X	76	76	.07150	2026	1996
6	1998	COLU X	109	109	.07150	2031	1996
6	1998	COLU X	251	251	.07150	2031	1996
6	1998	COLU X	426	426	.07150	2046	1996
6	1998	COLU X	368	368	.07150	2046	1996
6	1998	COLU X	3393	3393	.07150	2047	1997
6	1998	COUG X	10414	9042	.07230	2014	1964
6	1998	COUG X	20	20	.07230	2014 R	1965
6	1998	COUG X	20	20	.07230	2014 R	1966
6	1998	COUG X	20	20	.07230	2014 R	1967
6	1998	COUG X	20	20	.07230	2014 R	1968
6	1998	COUG X	20	20	.07230	2014 R	1969
6	1998	COUG X	20	20	.07230	2014 R	1970
6	1998	COUG X	20	20	.07230	2014 R	1971
6	1998	COUG X	20	20	.07230	2014 R	1972
6	1998	COUG X	20	20	.07230	2014 R	1973
6	1998	COUG X	19	19	.07230	2014 R	1974
6	1998	COUG X	20	20	.07230	2014 R	1975
6	1998	COUG X	20	20	.07230	2014 R	1976
6	1998	COUG X	20	20	.07230	2014 R	1977
6	1998	COUG X	20	20	.07230	2014 R	1978
6	1998	COUG X	20	20	.07230	2014 R	1979
6	1998	COUG X	20	20	.07230	2014 R	1980
6	1998	COUG X	20	20	.07230	2014 R	1981
6	1998	COUG X	20	20	.07230	2014 R	1982
6	1998	COUG X	20	20	.07230	2014 R	1983
6	1998	COUG X	1	0	.10750	2014 R	1984
6	1998	COUG X	1	1	.07230	2014	1985
6	1998	COUG X	55	0	.11375	2014 R	1986
6	1998	COUG X	104	104	.07230	2014	1986
6	1998	COUG X	45	45	.07230	2014	1987

6	1998	COUG X	2	0	.08500	2014	1988
6	1998	COUG X	6	0	.09250	2014 R	1989
6	1998	COUG X	10	0	.08875	2014 R	1990
6	1998	COUG X	1015	0	.08750	2014 R	1991
6	1998	COUG X	1	0	.08750	2014	1991
6	1998	COUG X	2	0	.08500	2014 R	1992
6	1998	COUG X	539	0	.07875	2014	1993
6	1998	COUG X	31	0	.07125	2019 A	1994
6	1998	COUG X	3	0	.07330	2000	1995
6	1998	COUG X	26	26	.07150	2047	1997
6	1998	CRFB X	3969	0	.08500	2041	1991
6	1998	CRFB X	874	0	.08500	2042	1992
6	1998	CRFB X	85846	0	.08500	2043	1993
6	1998	CRFB X	39454	0	.08500	2044	1994
6	1998	CRFB X	43343	703	.07150	2045	1995
6	1998	CRFB X	42357	42357	.07150	2046	1996
6	1999	CRFB X	20689	20689	.05325	2049	1999
6	1998	DETR X	12533	3078	.06840	2003	1953
6	1998	DETR X	20162	20162	.06880	2004	1954
6	1998	DETR X	18	18	.06880	2004 R	1955
6	1998	DETR X	19	19	.06880	2004 R	1956
6	1998	DETR X	18	18	.06880	2004 R	1957
6	1998	DETR X	19	19	.06880	2004 R	1958
6	1998	DETR X	18	18	.06880	2004 R	1959
6	1998	DETR X	19	19	.06880	2004 R	1960
6	1998	DETR X	18	18	.06880	2004 R	1961
6	1998	DETR X	19	19	.06880	2004 R	1962
6	1998	DETR X	18	18	.06880	2004 R	1963
6	1998	DETR X	19	19	.06880	2004 R	1964
6	1998	DETR X	18	18	.06880	2004 R	1965
6	1998	DETR X	19	19	.06880	2004 R	1966
6	1998	DETR X	18	18	.06880	2004 R	1967
6	1998	DETR X	19	19	.06880	2004 R	1968
6	1998	DETR X	18	18	.06880	2004 R	1969
6	1998	DETR X	19	19	.06880	2004 R	1970
6	1998	DETR X	18	18	.06880	2004 R	1971
6	1998	DETR X	19	19	.06880	2004 R	1972
6	1998	DETR X	18	18	.06880	2004 R	1973
6	1998	DETR X	19	19	.06880	2004 R	1974
6	1998	DETR X	18	18	.06880	2004 R	1975
6	1998	DETR X	19	19	.06880	2004 R	1976
6	1998	DETR X	18	18	.06880	2004 R	1977
6	1998	DETR X	19	19	.06880	2004 R	1978
6	1998	DETR X	18	18	.06880	2004 R	1979
6	1998	DETR X	19	19	.06880	2004 R	1980
6	1998	DETR X	18	18	.06880	2004 R	1981
6	1998	DETR X	19	19	.06880	2004 R	1982
6	1998	DETR X	18	18	.06880	2004 R	1983
6	1998	DETR X	21	0	.10750	2004 R	1984
6	1998	DETR X	6	6	.06880	2004	1985
6	1998	DETR X	38	0	.11375	2004 R	1986
6	1998	DETR X	233	0	.08875	2004 R	1987
6	1998	DETR X	3	3	.06880	2004	1987

6	1998	DETR	X	68	0	.08500	2004	R	1988
6	1998	DETR	X	26	0	.09250	2004	R	1989
6	1998	DETR	X	115	0	.08875	2004		1990
6	1998	DETR	X	9	0	.08750	2004	R	1991
6	1998	DETR	X	20	0	.08750	2004		1991
6	1998	DETR	X	8	0	.08500	2004		1992
6	1998	DETR	X	211	0	.07875	2004		1993
6	1998	DETR	X	7	0	.07125	1999	R	1994
6	1998	DETR	X	38	38	.07150	2045		1995
6	1998	DETR	X	13	0	.07330	2000		1995
6	1998	DETR	X	24	24	.06950	2006		1996
6	1998	DWOR	X	138443	132996	.07190	2023		1973
6	1998	DWOR	X	836	803	.07190	2023		1973
6	1998	DWOR	X	515	515	.07190	2023	R	1974
6	1998	DWOR	X	3	3	.07190	2023	R	1974
6	1998	DWOR	X	518	518	.07190	2023	R	1975
6	1998	DWOR	X	3	3	.07190	2023	R	1975
6	1998	DWOR	X	518	518	.07190	2023	R	1976
6	1998	DWOR	X	3	3	.07190	2023	R	1976
6	1998	DWOR	X	518	518	.07190	2023	R	1977
6	1998	DWOR	X	3	3	.07190	2023	R	1977
6	1998	DWOR	X	518	518	.07190	2023	R	1978
6	1998	DWOR	X	3	3	.07190	2023	R	1978
6	1998	DWOR	X	518	518	.07190	2023	R	1979
6	1998	DWOR	X	3	3	.07190	2023	R	1979
6	1998	DWOR	X	518	518	.07190	2023	R	1980
6	1998	DWOR	X	3	3	.07190	2023	R	1980
6	1998	DWOR	X	518	518	.07190	2023	R	1981
6	1998	DWOR	X	3	3	.07190	2023	R	1981
6	1998	DWOR	X	518	518	.07190	2023	R	1982
6	1998	DWOR	X	3	3	.07190	2023	R	1982
6	1998	DWOR	X	523	523	.07190	2023	R	1983
6	1998	DWOR	X	3	3	.07190	2023	R	1983
6	1998	DWOR	X	2499	0	.10750	2023	R	1984
6	1998	DWOR	X	15	0	.10750	2023	R	1984
6	1998	DWOR	X	1141	1141	.07190	2023		1985
6	1998	DWOR	X	197	197	.07190	2023		1986
6	1998	DWOR	X	65	0	.08875	2023	R	1987
6	1998	DWOR	X	30	5	.07190	2023		1987
6	1998	DWOR	X	61	0	.08500	2023	R	1988
6	1998	DWOR	X	63	0	.09250	2023	R	1989
6	1998	DWOR	X	245	0	.08875	2023	R	1990
6	1998	DWOR	X	24	0	.08875	2023		1990
6	1998	DWOR	X	224	0	.08750	2023		1991
6	1998	DWOR	X	4	0	.02625	2023		1992
6	1998	DWOR	X	28	0	.08500	2023	R	1992
6	1998	DWOR	X	24	0	.08500	2023		1992
6	1998	DWOR	X	41	0	.07875	2023	R	1993
6	1998	DWOR	X	1872	0	.07875	2023		1993
6	1998	DWOR	X	1351	0	.07125	2029	R	1994
6	1998	DWOR	X	964	0	.07125	2029	A	1994
6	1998	DWOR	X	55	0	.07930	2020		1995
6	1998	DWOR	X	218	218	.07150	2030		1995

6	1998	DWOR	X	1162	1162	.07150	2045	1995
6	1998	DWOR	X	3	3	.07150	2046	1996
6	1998	DWOR	X	4	4	.07150	2046	1996
6	1998	DWOR	X	6	6	.07150	2031	1996
6	1998	DWOR	X	26	26	.07230	2021	1996
6	1998	DWOR	X	46	46	.07150	2046	1996
6	1998	DWOR	X	107	107	.07130	2011	1996
6	1998	DWOR	X	184	184	.07230	2021	1996
6	1998	DWOR	X	203	203	.07150	2031	1996
6	1998	DWOR	X	7588	7588	.07150	2047	1997
6	1998	GREE	X	12892	11919	.07290	2017	1967
6	1998	GREE	X	12180	12180	.07280	2018	1968
6	1998	GREE	X	39	39	.07280	2018	R 1969
6	1998	GREE	X	40	40	.07280	2018	R 1970
6	1998	GREE	X	39	39	.07280	2018	R 1971
6	1998	GREE	X	39	39	.07280	2018	R 1972
6	1998	GREE	X	39	39	.07280	2018	R 1973
6	1998	GREE	X	39	39	.07280	2018	R 1974
6	1998	GREE	X	39	39	.07280	2018	R 1975
6	1998	GREE	X	39	39	.07280	2018	R 1976
6	1998	GREE	X	39	39	.07280	2018	R 1977
6	1998	GREE	X	39	39	.07280	2018	R 1978
6	1998	GREE	X	39	39	.07280	2018	R 1979
6	1998	GREE	X	40	40	.07280	2018	R 1980
6	1998	GREE	X	39	39	.07280	2018	R 1981
6	1998	GREE	X	39	39	.07280	2018	R 1982
6	1998	GREE	X	39	39	.07280	2018	R 1983
6	1998	GREE	X	15	0	.10750	2018	R 1984
6	1998	GREE	X	16	16	.07280	2018	1985
6	1998	GREE	X	3	0	.11375	2018	R 1986
6	1998	GREE	X	3	3	.07280	2018	1986
6	1998	GREE	X	2	0	.08875	2018	R 1987
6	1998	GREE	X	1	1	.07280	2018	1987
6	1998	GREE	X	13	0	.08500	2018	1988
6	1998	GREE	X	24	0	.09250	2018	R 1989
6	1998	GREE	X	5	0	.08875	2018	1990
6	1998	GREE	X	48	0	.08750	2018	1991
6	1998	GREE	X	2	0	.08500	2018	1992
6	1998	GREE	X	41	0	.07875	2018	1993
6	1998	GREE	X	6	0	.07125	1999	A 1994
6	1998	GREE	X	4	0	.07330	2000	1995
6	1998	GREE	X	11	11	.07250	2020	1995
6	1998	GREE	X	24	24	.07250	2020	1995
6	1998	GREE	X	26	26	.07150	2046	1996
6	1998	HILL	X	10353	9264	.07160	2012	1962
6	1998	HILL	X	12	12	.07160	2012	R 1963
6	1998	HILL	X	13	13	.07160	2012	R 1964
6	1998	HILL	X	13	13	.07160	2012	R 1965
6	1998	HILL	X	13	13	.07160	2012	R 1966
6	1998	HILL	X	13	13	.07160	2012	R 1967
6	1998	HILL	X	13	13	.07160	2012	R 1968
6	1998	HILL	X	13	13	.07160	2012	R 1969
6	1998	HILL	X	13	13	.07160	2012	R 1970

6	1998	HILL X	13	13	.07160	2012 R	1971
6	1998	HILL X	13	13	.07160	2012 R	1972
6	1998	HILL X	13	13	.07160	2012 R	1973
6	1998	HILL X	13	13	.07160	2012 R	1974
6	1998	HILL X	13	13	.07160	2012 R	1975
6	1998	HILL X	13	13	.07160	2012 R	1976
6	1998	HILL X	13	13	.07160	2012 R	1977
6	1998	HILL X	13	13	.07160	2012 R	1978
6	1998	HILL X	13	13	.07160	2012 R	1979
6	1998	HILL X	13	13	.07160	2012 R	1980
6	1998	HILL X	13	13	.07160	2012 R	1981
6	1998	HILL X	13	13	.07160	2012 R	1982
6	1998	HILL X	13	13	.07160	2012 R	1983
6	1998	HILL X	52	0	.10750	2012 R	1984
6	1998	HILL X	6	6	.07160	2012	1985
6	1998	HILL X	3	0	.08875	2012 R	1987
6	1998	HILL X	3	0	.08500	2012 R	1988
6	1998	HILL X	3	0	.08875	2012	1990
6	1998	HILL X	17	0	.08750	2012	1991
6	1998	HILL X	1	0	.08500	2012	1992
6	1998	HILL X	13	0	.07875	2012	1993
6	1998	HILL X	28	28	.07150	2046	1996
6	1998	HUNG X	71160	16359	.06840	2003	1953
6	1998	HUNG X	2126	490	.06840	2003	1953
6	1998	HUNG X	17	17	.06840	2003 R	1954
6	1998	HUNG X	1	1	.06840	2003 R	1954
6	1998	HUNG X	17	17	.06840	2003 R	1955
6	1998	HUNG X	1	1	.06840	2003 R	1955
6	1998	HUNG X	17	17	.06840	2003 R	1956
6	1998	HUNG X	1	1	.06840	2003 R	1956
6	1998	HUNG X	18	18	.06840	2003 R	1957
6	1998	HUNG X	1	1	.06840	2003 R	1957
6	1998	HUNG X	18	18	.06840	2003 R	1958
6	1998	HUNG X	1	1	.06840	2003 R	1958
6	1998	HUNG X	18	18	.06840	2003 R	1959
6	1998	HUNG X	1	1	.06840	2003 R	1959
6	1998	HUNG X	18	18	.06840	2003 R	1960
6	1998	HUNG X	1	1	.06840	2003 R	1960
6	1998	HUNG X	18	18	.06840	2003 R	1961
6	1998	HUNG X	1	1	.06840	2003 R	1961
6	1998	HUNG X	18	18	.06840	2003 R	1962
6	1998	HUNG X	1	1	.06840	2003 R	1962
6	1998	HUNG X	18	18	.06840	2003 R	1963
6	1998	HUNG X	1	1	.06840	2003 R	1963
6	1998	HUNG X	17	17	.06840	2003 R	1964
6	1998	HUNG X	1	1	.06840	2003 R	1964
6	1998	HUNG X	17	17	.06840	2003 R	1965
6	1998	HUNG X	1	1	.06840	2003 R	1965
6	1998	HUNG X	17	17	.06840	2003 R	1966
6	1998	HUNG X	1	1	.06840	2003 R	1966
6	1998	HUNG X	18	18	.06840	2003 R	1967
6	1998	HUNG X	1	1	.06840	2003 R	1967
6	1998	HUNG X	18	18	.06840	2003 R	1968

6	1998	HUNG X	1	1	.06840	2003 R	1968
6	1998	HUNG X	18	18	.06840	2003 R	1969
6	1998	HUNG X	1	1	.06840	2003 R	1969
6	1998	HUNG X	18	18	.06840	2003 R	1970
6	1998	HUNG X	1	1	.06840	2003 R	1970
6	1998	HUNG X	18	18	.06840	2003 R	1971
6	1998	HUNG X	1	1	.06840	2003 R	1971
6	1998	HUNG X	18	18	.06840	2003 R	1972
6	1998	HUNG X	1	1	.06840	2003 R	1972
6	1998	HUNG X	18	18	.06840	2003 R	1973
6	1998	HUNG X	1	1	.06840	2003 R	1973
6	1998	HUNG X	17	17	.06840	2003 R	1974
6	1998	HUNG X	1	1	.06840	2003 R	1974
6	1998	HUNG X	17	17	.06840	2003 R	1975
6	1998	HUNG X	1	1	.06840	2003 R	1975
6	1998	HUNG X	10	10	.06840	2003 R	1976
6	1998	HUNG X	1	1	.06840	2003 R	1976
6	1998	HUNG X	18	18	.06840	2003 R	1977
6	1998	HUNG X	1	1	.06840	2003 R	1977
6	1998	HUNG X	18	18	.06840	2003 R	1978
6	1998	HUNG X	1	1	.06840	2003 R	1978
6	1998	HUNG X	18	18	.06840	2003 R	1979
6	1998	HUNG X	1	1	.06840	2003 R	1979
6	1998	HUNG X	18	18	.06840	2003 R	1980
6	1998	HUNG X	1	1	.06840	2003 R	1980
6	1998	HUNG X	22	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1982
6	1998	HUNG X	12	12	.06840	2003 R	1983
6	1998	HUNG X	1	1	.06840	2003 R	1983
6	1998	HUNG X	32	0	.10750	2003 R	1984
6	1998	HUNG X	1	0	.10750	2003 R	1984
6	1998	HUNG X	36	0	.12375	2003 R	1985
6	1998	HUNG X	37	0	.12375	2003 R	1985
6	1998	HUNG X	101	0	.09250	2003 R	1989
6	1998	HUNG X	58	0	.08875	2003 R	1990
6	1998	HUNG X	19	0	.08750	2003 R	1991
6	1998	HUNG X	9	0	.08500	2003	1992
6	1998	HUNG X	4136	0	.07875	2003 R	1993
6	1998	HUNG X	2	0	.07875	2003	1993
6	1998	HUNG X	56	0	.07125	2019 R	1994
6	1998	HUNG X	156	6	.06620	2000 R	1995
6	1998	HUNG X	450	0	.07930	2020 R	1995
6	1998	HUNG X	536	536	.07150	2030 R	1995
6	1998	HUNG X	1198	1195	.07150	2030 R	1995
6	1998	HUNG X	6190	6190	.07150	2045	1995
6	1998	HUNG X	84	84	.06620	2000	1995
6	1998	HUNG X	14354	0	.07860	2045	1995
6	1998	HUNG X	15	15	.07150	2046	1996
6	1998	HUNG X	2	2	.07150	2046	1996
6	1998	HUNG X	154	154	.06950	2007	1997
6	1998	HUNG X	216	216	.07150	2047	1997
6	1998	ICEH X	59669	44308	.07160	2012	1962

6	1996	ICEH X	664	493	.07160	2012	1962
6	1998	ICEH X	46	46	.07160	2012 R	1963
6	1998	ICEH X	1	1	.07160	2012 R	1963
6	1998	ICEH X	46	46	.07160	2012 R	1964
6	1998	ICEH X	1	1	.07160	2012 R	1964
6	1998	ICEH X	46	46	.07160	2012 R	1965
6	1998	ICEH X	1	1	.07160	2012 R	1965
6	1998	ICEH X	46	46	.07160	2012 R	1966
6	1998	ICEH X	1	1	.07160	2012 R	1966
6	1998	ICEH X	46	46	.07160	2012 R	1967
6	1998	ICEH X	1	1	.07160	2012 R	1967
6	1998	ICEH X	46	46	.07160	2012 R	1968
6	1998	ICEH X	1	1	.07160	2012 R	1968
6	1998	ICEH X	46	46	.07160	2012 R	1969
6	1998	ICEH X	1	1	.07160	2012 R	1969
6	1998	ICEH X	46	46	.07160	2012 R	1970
6	1998	ICEH X	1	1	.07160	2012 R	1970
6	1998	ICEH X	46	46	.07160	2012 R	1971
6	1998	ICEH X	1	1	.07160	2012 R	1971
6	1998	ICEH X	46	46	.07160	2012 R	1972
6	1998	ICEH X	1	1	.07160	2012 R	1972
6	1998	ICEH X	46	46	.07160	2012 R	1973
6	1998	ICEH X	1	1	.07160	2012 R	1973
6	1998	ICEH X	46	46	.07160	2012 R	1974
6	1998	ICEH X	1	1	.07160	2012 R	1974
6	1998	ICEH X	46	46	.07160	2012 R	1975
6	1998	ICEH X	1	1	.07160	2012 R	1975
6	1998	ICEH X	20472	20472	.07150	2026 A	1976
6	1998	ICEH X	46	46	.07160	2012 R	1976
6	1998	ICEH X	228	228	.07150	2026 A	1976
6	1998	ICEH X	1	1	.07160	2012 R	1976
6	1998	ICEH X	46	46	.07160	2012 R	1977
6	1998	ICEH X	1	1	.07160	2012 R	1977
6	1998	ICEH X	46	46	.07160	2012 R	1978
6	1998	ICEH X	1	1	.07160	2012 R	1978
6	1998	ICEH X	46	46	.07160	2012 R	1979
6	1998	ICEH X	1	1	.07160	2012 R	1979
6	1998	ICEH X	46	46	.07160	2012 R	1980
6	1998	ICEH X	1	1	.07160	2012 R	1980
6	1998	ICEH X	46	46	.07160	2012 R	1981
6	1998	ICEH X	1	1	.07160	2012 R	1981
6	1998	ICEH X	46	46	.07160	2012 R	1982
6	1998	ICEH X	1	1	.07160	2012 R	1982
6	1998	ICEH X	46	46	.07160	2012 R	1983
6	1998	ICEH X	1	1	.07160	2012 R	1983
6	1998	ICEH X	21	21	.07150	2026 A	1985
6	1998	ICEH X	41	41	.07160	2012	1985
6	1998	ICEH X	137	137	.07160	2012	1986
6	1998	ICEH X	71	0	.08875	2012 R	1987
6	1998	ICEH X	3	3	.07160	2012	1987
6	1998	ICEH X	1	0	.08875	2012	1987
6	1998	ICEH X	8	0	.08500	2012	1988
6	1998	ICEH X	57	0	.08500	2012 R	1988

6	1998	ICEH X	51	0	.09250	2012 R	1989
6	1998	ICEH X	427	0	.08875	2012 R	1990
6	1998	ICEH X	348	0	.08750	2012 R	1991
6	1998	ICEH X	177	0	.08500	2012	1992
6	1998	ICEH X	3192	0	.07875	2012 R	1993
6	1998	ICEH X	1645	0	.07875	2012	1993
6	1998	ICEH X	328	0	.07125	2029 R	1994
6	1998	ICEH X	520	0	.07125	2029 A	1994
6	1998	ICEH X	2	0	.07330	2000 R	1995
6	1998	ICEH X	84	84	.07270	2019	1995
6	1998	ICEH X	171	171	.07270	2019	1995
6	1998	ICEH X	849	849	.07270	2019	1995
6	1998	ICEH X	78	78	.07150	2031	1996
6	1998	ICEH X	371	371	.07150	2041 R	1996
6	1998	ICEH X	66	66	.07230	2022	1997
6	1998	ICEH X	67	67	.07150	2047	1997
6	1998	JOHN X	27254	21686	.07280	2018	1968
6	1998	JOHN X	96104	96104	.07270	2019	1969
6	1998	JOHN X	23656	23656	.07250	2020	1970
6	1998	JOHN X	34974	34974	.07230	2021	1971
6	1998	JOHN X	11502	11502	.07210	2022	1972
6	1998	JOHN X	3677	0	.10750	2022 R	1984
6	1998	JOHN X	1209	0	.12375	2022 R	1985
6	1998	JOHN X	6490	6490	.07210	2022	1985
6	1998	JOHN X	713	0	.11375	2022 R	1986
6	1998	JOHN X	3227	3227	.07210	2022	1986
6	1998	JOHN X	4353	0	.08875	2022 R	1987
6	1998	JOHN X	706	706	.07210	2022	1987
6	1998	JOHN X	332	0	.08500	2022	1988
6	1998	JOHN X	199	0	.08500	2022 R	1988
6	1998	JOHN X	377	0	.09250	2022 R	1989
6	1998	JOHN X	30	30	.07210	2022	1989
6	1998	JOHN X	37	37	.07210	2022	1990
6	1998	JOHN X	543	0	.08875	2022 R	1990
6	1998	JOHN X	13218	0	.08750	2022 R	1991
6	1998	JOHN X	144	0	.08750	2022	1991
6	1998	JOHN X	19	19	.07210	2022	1992
6	1998	JOHN X	95	0	.08500	2022	1992
6	1998	JOHN X	7810	0	.07875	2022 R	1993
6	1998	JOHN X	9585	0	.07875	2022	1993
6	1998	JOHN X	14	0	.07125	2019 R	1994
6	1998	JOHN X	1252	0	.07125	2029 A	1994
6	1998	JOHN X	2	0	.07330	2000	1995
6	1998	JOHN X	9	0	.07330	2000 R	1995
6	1998	JOHN X	22	22	.07150	2035	1995
6	1998	JOHN X	37	37	.07150	2045	1995
6	1998	JOHN X	52	52	.07150	2035	1995
6	1998	JOHN X	79	79	.07250	2020	1995
6	1998	JOHN X	121	121	.07150	2035	1995
6	1998	JOHN X	608	608	.07150	2045	1995
6	1998	JOHN X	7653	7653	.07150	2045 R	1995
6	1998	JOHN X	237	237	.07130	2011	1996
6	1998	JOHN X	1072	1072	.07290	2016	1996

6	1998	JOHN X	133	133	.07230	2022	1997
6	1998	JOHN X	179	179	.07150	2047	1997
6	1998	LIBB X	54644	48138	.07160	2025	1975
6	1998	LIBB X	153432	153432	.07150	2026	1976
6	1998	LIBB X	1465	1465	.07150	2026 R	1977
6	1998	LIBB X	1465	1465	.07150	2026 R	1978
6	1998	LIBB X	1465	1465	.07150	2026 R	1979
6	1998	LIBB X	1465	1465	.07150	2026 R	1980
6	1998	LIBB X	1465	1465	.07150	2026 R	1981
6	1998	LIBB X	1465	1465	.07150	2026 R	1982
6	1998	LIBB X	1465	1465	.07150	2026 R	1983
6	1998	LIBB X	104	0	.10750	2026 R	1984
6	1998	LIBB X	518	518	.07150	2026	1985
6	1998	LIBB X	283	283	.07150	2026	1986
6	1998	LIBB X	2	2	.07150	2026	1987
6	1998	LIBB X	18043	14781	.07150	2038 A	1988
6	1998	LIBB X	35	0	.08505	2026	1988
6	1998	LIBB X	131	0	.09250	2026 R	1989
6	1998	LIBB X	1	1	.07150	2026	1989
6	1998	LIBB X	11	0	.08875	2026	1990
6	1998	LIBB X	134	0	.08750	2026 R	1991
6	1998	LIBB X	100	0	.08500	2026 R	1992
6	1998	LIBB X	70	0	.08500	2026	1992
6	1998	LIBB X	600	0	.07875	2026	1993
6	1998	LIBB X	215	0	.07125	2029 R	1994
6	1998	LIBB X	286	152	.07150	2029 A	1994
6	1998	LIBB X	15	15	.07150	2030 R	1995
6	1998	LIBB X	41	41	.07150	2030	1995
6	1998	LIBB X	94	94	.07150	2030 R	1995
6	1998	LIBB X	432	432	.07230	2022	1997
6	1998	LIBB X	660	660	.07150	2047	1997
6	1998	LITT X	22326	21301	.07250	2020	1970
6	1998	LITT X	42962	42962	.07230	2021	1971
6	1998	LITT X	28	28	.07230	2021 R	1972
6	1998	LITT X	29	29	.07230	2021 R	1973
6	1998	LITT X	28	28	.07230	2021 R	1974
6	1998	LITT X	29	29	.07230	2021 R	1975
6	1998	LITT X	28	28	.07230	2021 R	1976
6	1998	LITT X	29	29	.07230	2021 R	1977
6	1998	LITT X	49578	49578	.07150	2028 A	1978
6	1998	LITT X	28	28	.07230	2021 R	1978
6	1998	LITT X	29	29	.07230	2021 R	1979
6	1998	LITT X	28	28	.07230	2021 R	1980
6	1998	LITT X	29	29	.07230	2021 R	1981
6	1998	LITT X	28	28	.07230	2021 R	1982
6	1998	LITT X	29	29	.07230	2021 R	1983
6	1998	LITT X	201	0	.10750	2021 R	1984
6	1998	LITT X	47	47	.07150	2028 A	1985
6	1998	LITT X	174	174	.07230	2021	1985
6	1998	LITT X	239	239	.07230	2021	1986
6	1998	LITT X	72	0	.08875	2021 R	1987
6	1998	LITT X	6	6	.07230	2021	1987
6	1998	LITT X	12	0	.08500	2021	1988

6	1998	LITT X	68	0	.08500	2021 R	1988
6	1998	LITT X	77	0	.09250	2021 R	1989
6	1998	LITT X	408	0	.08875	2021 R	1990
6	1998	LITT X	21	0	.08875	2021	1990
6	1998	LITT X	266	0	.08750	2021 R	1991
6	1998	LITT X	66	0	.08500	2021 R	1992
6	1998	LITT X	27	0	.08500	2021	1992
6	1998	LITT X	276	0	.07875	2021 R	1993
6	1998	LITT X	3359	0	.07875	2021	1993
6	1998	LITT X	37	0	.07125	2019 R	1994
6	1998	LITT X	2044	0	.07125	2029 A	1994
6	1998	LITT X	17	17	.07150	2040	1995
6	1998	LITT X	450	450	.07150	2040	1995
6	1998	LITT X	733	733	.07150	2040 R	1995
6	1998	LITT X	10	10	.07150	2046	1996
6	1998	LITT X	10	10	.07150	2046 R	1996
6	1998	LITT X	211	211	.07150	2046	1996
6	1998	LITT X	241	241	.07150	2046	1996
6	1998	LITT X	520	520	.07150	2046 R	1996
6	1998	LITT X	3909	3909	.07150	2046 R	1996
6	1998	LITT X	1	1	.07150	2047	1997
6	1998	LOOK X	34290	28417	.06910	2005	1955
6	1998	LOOK X	52	52	.06910	2005 R	1956
6	1998	LOOK X	51	51	.06910	2005 R	1957
6	1998	LOOK X	51	51	.06910	2005 R	1958
6	1998	LOOK X	51	51	.06910	2005 R	1959
6	1998	LOOK X	51	51	.06910	2005 R	1960
6	1998	LOOK X	52	52	.06910	2005 R	1961
6	1998	LOOK X	51	51	.06910	2005 R	1962
6	1998	LOOK X	51	51	.06910	2005 R	1963
6	1998	LOOK X	51	51	.06910	2005 R	1964
6	1998	LOOK X	51	51	.06910	2005 R	1965
6	1998	LOOK X	51	51	.06910	2005 R	1966
6	1998	LOOK X	52	52	.06910	2005 R	1967
6	1998	LOOK X	51	51	.06910	2005 R	1968
6	1998	LOOK X	51	51	.06910	2005 R	1969
6	1998	LOOK X	51	51	.06910	2005 R	1970
6	1998	LOOK X	51	51	.06910	2005 R	1971
6	1998	LOOK X	51	51	.06910	2005 R	1972
6	1998	LOOK X	52	52	.06910	2005 R	1973
6	1998	LOOK X	51	51	.06910	2005 R	1974
6	1998	LOOK X	51	51	.06910	2005 R	1975
6	1998	LOOK X	51	51	.06910	2005 R	1976
6	1998	LOOK X	51	51	.06910	2005 R	1977
6	1998	LOOK X	51	51	.06910	2005 R	1978
6	1998	LOOK X	52	52	.06910	2005 R	1979
6	1998	LOOK X	51	51	.06910	2005 R	1980
6	1998	LOOK X	51	51	.06910	2005 R	1981
6	1998	LOOK X	51	51	.06910	2005 R	1982
6	1998	LOOK X	51	51	.06910	2005 R	1983
6	1998	LOOK X	185	0	.10750	2005 R	1984
6	1998	LOOK X	52	52	.06910	2005	1985
6	1998	LOOK X	42	42	.06910	2005	1986

6	1998	LOOK X	12	0	.08875	2005 R	1987
6	1998	LOOK X	9	9	.06910	2005	1987
6	1998	LOOK X	46	0	.08500	2005	1988
6	1998	LOOK X	17	0	.08500	2005 R	1988
6	1998	LOOK X	23	0	.09250	2005 R	1989
6	1998	LOOK X	147	0	.08875	2005 R	1990
6	1998	LOOK X	4	0	.08875	2005	1990
6	1998	LOOK X	6	0	.08750	2005 R	1991
6	1998	LOOK X	50	0	.08750	2005	1991
6	1998	LOOK X	181	0	.08500	2005 R	1992
6	1998	LOOK X	4	0	.08500	2005	1992
6	1998	LOOK X	18	0	.07875	2005 R	1993
6	1998	LOOK X	189	0	.07875	2005	1993
6	1998	LOOK X	73	0	.07125	2019 A	1994
6	1998	LOOK X	9	0	.07860	2045	1995
6	1998	LOOK X	15	0	.07860	2045	1995
6	1998	LOOK X	31	0	.07860	2045	1995
6	1998	LOOK X	33	33	.07150	2045	1995
6	1998	LOOK X	80	39	.07150	2045	1995
6	1998	LOOK X	157	0	.07860	2045	1995
6	1998	LOST X	13505	13413	.07150	2027	1977
6	1998	LOST X	58	58	.07150	2027 R	1978
6	1998	LOST X	60	60	.07150	2027 R	1979
6	1998	LOST X	60	60	.07150	2027 R	1980
6	1998	LOST X	60	60	.07150	2027 R	1981
6	1998	LOST X	60	60	.07150	2027 R	1982
6	1998	LOST X	60	60	.07150	2027 R	1983
6	1998	LOST X	243	0	.10750	2027 R	1984
6	1998	LOST X	12	12	.07150	2027	1985
6	1998	LOST X	5	0	.11375	2027 R	1986
6	1998	LOST X	6	6	.07150	2027	1986
6	1998	LOST X	3	0	.08875	2027 R	1987
6	1998	LOST X	4	4	.07150	2027	1987
6	1998	LOST X	7	0	.08500	2027	1988
6	1998	LOST X	9	0	.09250	2027 R	1989
6	1998	LOST X	1	0	.08875	2027	1990
6	1998	LOST X	31	0	.08750	2027	1991
6	1998	LOST X	1	0	.08500	2027 R	1992
6	1998	LOST X	1	0	.08500	2027	1992
6	1998	LOST X	1	0	.07875	2027 R	1993
6	1998	LOST X	14	0	.07875	2027	1993
6	1998	LOST X	4	0	.07330	2000	1995
6	1998	LOST X	94	94	.07150	2045	1995
6	1998	LOST X	24	24	.07150	2046	1996
6	1998	LOST X	31	31	.07150	2031	1996
6	1998	LOWG X	119237	117645	.07160	2025	1975
6	1998	LOWG X	510	510	.07160	2025 R	1976
6	1998	LOWG X	510	510	.07160	2025 R	1977
6	1998	LOWG X	40611	40611	.07150	2028 A	1978
6	1998	LOWG X	510	510	.07160	2025 R	1978
6	1998	LOWG X	510	510	.07160	2025 R	1979
6	1998	LOWG X	510	510	.07160	2025 R	1980
6	1998	LOWG X	510	510	.07160	2025 R	1981

6	1998	LOWG X	510	510	.07160	2025 R	1982
6	1998	LOWG X	510	510	.07160	2025 R	1983
6	1998	LOWG X	311	0	.10750	2025 R	1984
6	1998	LOWG X	328	328	.07160	2025	1985
6	1998	LOWG X	4	0	.11375	2025 R	1986
6	1998	LOWG X	215	215	.07160	2025	1986
6	1998	LOWG X	60	0	.08875	2025 R	1987
6	1998	LOWG X	8	8	.07160	2025	1987
6	1998	LOWG X	22	0	.08500	2025	1988
6	1998	LOWG X	95	0	.08500	2025 R	1988
6	1998	LOWG X	112	0	.09250	2025 R	1989
6	1998	LOWG X	392	0	.08875	2025 R	1990
6	1998	LOWG X	281	0	.08750	2025 R	1991
6	1998	LOWG X	6	0	.08750	2025	1991
6	1998	LOWG X	83	0	.08500	2025 R	1992
6	1998	LOWG X	121	0	.08500	2025	1992
6	1998	LOWG X	26	0	.07875	2025 R	1993
6	1998	LOWG X	3272	0	.07875	2025	1993
6	1998	LOWG X	38	0	.07125	2019 R	1994
6	1998	LOWG X	3543	1551	.07150	2029 A	1994
6	1998	LOWG X	77	77	.07290	2017 R	1995
6	1998	LOWG X	96	96	.07160	2025	1995
6	1998	LOWG X	388	388	.07290	2017	1995
6	1998	LOWG X	458	458	.07290	2017	1995
6	1998	LOWG X	9	9	.07150	2046 R	1996
6	1998	LOWG X	206	206	.07150	2031	1996
6	1998	LOWG X	255	255	.07130	2011	1996
6	1998	LOWG X	625	625	.07150	2046	1996
6	1998	LOWG X	677	677	.07150	2047	1997
6	1998	LOWM X	26974	25083	.07270	2019	1969
6	1998	LOWM X	51218	51218	.07250	2020	1970
6	1998	LOWM X	214	214	.07250	2020 R	1971
6	1998	LOWM X	214	214	.07250	2020 R	1972
6	1998	LOWM X	214	214	.07250	2020 R	1973
6	1998	LOWM X	214	214	.07250	2020 R	1974
6	1998	LOWM X	214	214	.07250	2020 R	1975
6	1998	LOWM X	214	214	.07250	2020 R	1976
6	1998	LOWM X	214	214	.07250	2020 R	1977
6	1998	LOWM X	214	214	.07250	2020 R	1978
6	1998	LOWM X	40669	40669	.07150	2029 A	1979
6	1998	LOWM X	214	214	.07250	2020 R	1979
6	1998	LOWM X	214	214	.07250	2020 R	1980
6	1998	LOWM X	214	214	.07250	2020 R	1981
6	1998	LOWM X	214	214	.07250	2020 R	1982
6	1998	LOWM X	214	214	.07250	2020 R	1983
6	1998	LOWM X	256	256	.07150	2029 A	1985
6	1998	LOWM X	8	8	.07250	2020	1985
6	1998	LOWM X	132	132	.07250	2020	1986
6	1998	LOWM X	50	0	.08875	2020 R	1987
6	1998	LOWM X	3	3	.07250	2020	1987
6	1998	LOWM X	1	0	.08500	2020	1988
6	1998	LOWM X	58	0	.08500	2020 R	1988
6	1998	LOWM X	93	0	.09250	2020 R	1989

6	1998	LOWM X	358	0	.08875	2020 R	1990
6	1998	LOWM X	594	0	.08750	2020	1991
6	1998	LOWM X	4484	0	.08500	2020	1992
6	1998	LOWM X	24	0	.07875	2020 R	1993
6	1998	LOWM X	2175	0	.07875	2020	1993
6	1998	LOWM X	107	0	.07125	2019 R	1994
6	1998	LOWM X	2167	0	.07125	2029 A	1994
6	1998	LOWM X	6	0	.07330	2000	1995
6	1998	LOWM X	41	41	.07150	2045	1995
6	1998	LOWM X	99	99	.07150	2045	1995
6	1998	LOWM X	624	624	.07150	2045	1995
6	1998	LOWM X	1122	1122	.07150	2045 R	1995
6	1998	LOWM X	10	10	.07150	2046	1996
6	1998	LOWM X	37	37	.07230	2021	1996
6	1998	LOWM X	51	51	.07230	2021	1996
6	1998	LOWM X	264	264	.07150	2036 R	1996
6	1998	LOWM X	668	668	.07290	2016	1996
6	1998	LSFW X	30983	9967	.07150	2033	1983
6	1998	LSFW X	47921	47921	.07150	2035	1985
6	1998	LSFW X	72536	72536	.07150	2037	1987
6	1998	LSFW X	805	805	.07150	2038	1988
6	1998	LSFW X	1557	1557	.07150	2040	1990
6	1998	LSFW X	4411	4411	.07150	2041	1991
6	1998	LSFW X	71632	71632	.07150	2043	1993
6	1998	LSFW X	4619	4619	.07150	2044	1994
6	1998	LSFW X	2162	2162	.07150	2045	1995
6	1998	LSFW X	10185	10185	.07150	2046	1996
6	1998	LSFW X	2173	2173	.07150	2047	1997
6	1998	MCNA X	80256	35757	.06880	2004	1954
6	1998	MCNA X	53493	53493	.06910	2005	1955
6	1998	MCNA X	38748	38748	.06950	2006	1956
6	1998	MCNA X	24985	24985	.06980	2007	1957
6	1998	MCNA X	468	468	.06980	2007 R	1958
6	1998	MCNA X	468	468	.06980	2007 R	1959
6	1998	MCNA X	468	468	.06980	2007 R	1960
6	1998	MCNA X	468	468	.06980	2007 R	1961
6	1998	MCNA X	467	467	.06980	2007 R	1962
6	1998	MCNA X	468	468	.06980	2007 R	1963
6	1998	MCNA X	468	468	.06980	2007 R	1964
6	1998	MCNA X	468	468	.06980	2007 R	1965
6	1998	MCNA X	468	468	.06980	2007 R	1966
6	1998	MCNA X	467	467	.06980	2007 R	1967
6	1998	MCNA X	468	468	.06980	2007 R	1968
6	1998	MCNA X	468	468	.06980	2007 R	1969
6	1998	MCNA X	468	468	.06980	2007 R	1970
6	1998	MCNA X	468	468	.06980	2007 R	1971
6	1998	MCNA X	468	468	.06980	2007 R	1972
6	1998	MCNA X	467	467	.06980	2007 R	1973
6	1998	MCNA X	468	468	.06980	2007 R	1974
6	1998	MCNA X	468	468	.06980	2007 R	1975
6	1998	MCNA X	468	468	.06980	2007 R	1976
6	1998	MCNA X	467	467	.06980	2007 R	1977
6	1998	MCNA X	468	468	.06980	2007 R	1978

6	1998	MCNA X	468	468	.06980	2007 R	1979
6	1998	MCNA X	468	468	.06980	2007 R	1980
6	1998	MCNA X	468	468	.06980	2007 R	1981
6	1998	MCNA X	467	467	.06980	2007 R	1982
6	1998	MCNA X	468	468	.06980	2007 R	1983
6	1998	MCNA X	557	557	.06980	2007	1985
6	1998	MCNA X	454	454	.06980	2007	1986
6	1998	MCNA X	35	0	.08875	2007 R	1987
6	1998	MCNA X	24	24	.06980	2007	1987
6	1998	MCNA X	20	0	.08500	2007	1988
6	1998	MCNA X	50	0	.08500	2007 R	1988
6	1998	MCNA X	130	0	.09250	2007 R	1989
6	1998	MCNA X	2228	0	.08875	2007 R	1990
6	1998	MCNA X	14	0	.08875	2007	1990
6	1998	MCNA X	66	0	.08750	2007 R	1991
6	1998	MCNA X	76	0	.08750	2007	1991
6	1998	MCNA X	222	0	.08500	2007 R	1992
6	1998	MCNA X	125	0	.08500	2007	1992
6	1998	MCNA X	34	0	.07875	2007 R	1993
6	1998	MCNA X	1462	0	.07875	2007	1993
6	1998	MCNA X	1521	0	.07125	2029 A	1994
6	1998	MCNA X	68	0	.07125	2019 R	1994
6	1998	MCNA X	16	16	.07150	2045	1995
6	1998	MCNA X	509	509	.07090	2010	1995
6	1998	MCNA X	3	3	.07130	2011	1996
6	1998	MCNA X	74	74	.07150	2026	1996
6	1998	MCNA X	277	277	.07150	2026	1996
6	1998	MCNA X	619	619	.07150	2046	1996
6	1998	MCNA X	778	778	.06950	2006	1996
6	1998	MCNA X	30	30	.07150	2032	1997
6	1998	MINI X	854	0	.03000	1959	1909
6	1998	MINI X	226	0	.03000	1959	1909
6	1998	MINI X	1709	0	.03000	1960	1910
6	1998	MINI X	451	0	.03000	1960	1910
6	1998	MINI X	1709	0	.03000	1961	1911
6	1998	MINI X	451	0	.03000	1961	1911
6	1998	MINI X	854	0	.03000	1977	1927
6	1998	MINI X	226	0	.03000	1977	1927
6	1998	MINI X	854	0	.03000	1992	1942
6	1998	MINI X	226	0	.03000	1992	1942
6	1998	MINI X	2561	0	.03000	2007	1957
6	1998	MINI X	677	0	.03000	2007	1957
6	1998	MINI X	854	0	.03000	2008	1958
6	1998	MINI X	226	0	.03000	2008	1958
6	1998	MINI X	108	0	.03000	2008 R	1959
6	1998	MINI X	28	0	.03000	2008 R	1959
6	1998	MINI X	108	0	.03000	2008 R	1960
6	1998	MINI X	29	0	.03000	2008 R	1960
6	1998	MINI X	108	0	.03000	2008 R	1961
6	1998	MINI X	29	0	.03000	2008 R	1961
6	1998	MINI X	108	0	.03000	2008 R	1962
6	1998	MINI X	28	0	.03000	2008 R	1962
6	1998	MINI X	108	0	.03000	2008 R	1963

6	1998	MINI X	29	0	.03000	2008 R	1963
6	1998	MINI X	108	0	.03000	2008 R	1964
6	1998	MINI X	28	0	.03000	2008 R	1964
6	1998	MINI X	108	0	.03000	2008 R	1965
6	1998	MINI X	29	0	.03000	2008 R	1965
6	1998	MINI X	108	0	.03000	2008 R	1966
6	1998	MINI X	29	0	.03000	2008 R	1966
6	1998	MINI X	108	0	.03000	2008 R	1967
6	1998	MINI X	28	0	.03000	2008 R	1967
6	1998	MINI X	108	0	.03000	2008 R	1968
6	1998	MINI X	29	0	.03000	2008 R	1968
6	1998	MINI X	3	0	.03000	2008 R	1969
6	1998	MINI X	28	0	.03000	2008 R	1969
6	1998	MINI X	108	0	.03000	2008 R	1970
6	1998	MINI X	29	0	.03000	2008 R	1970
6	1998	MINI X	108	0	.03000	2008 R	1971
6	1998	MINI X	29	0	.03000	2008 R	1971
6	1998	MINI X	108	0	.03000	2008 R	1972
6	1998	MINI X	28	0	.03000	2008 R	1972
6	1998	MINI X	108	0	.03000	2008 R	1973
6	1998	MINI X	29	0	.03000	2008 R	1973
6	1998	MINI X	108	0	.03000	2008 R	1974
6	1998	MINI X	28	0	.03000	2008 R	1974
6	1998	MINI X	108	0	.03000	2008 R	1975
6	1998	MINI X	29	0	.03000	2008 R	1975
6	1998	MINI X	108	0	.03000	2008 R	1976
6	1998	MINI X	29	0	.03000	2008 R	1976
6	1998	MINI X	83	56	.07020	2008 R	1977
6	1998	MINI X	28	0	.07020	2008 R	1977
6	1998	MINI X	75	75	.07020	2008 R	1978
6	1998	MINI X	20	20	.07020	2008 R	1978
6	1998	MINI X	75	75	.07020	2008 R	1979
6	1998	MINI X	19	19	.07020	2008 R	1979
6	1998	MINI X	75	75	.07020	2008 R	1980
6	1998	MINI X	20	20	.07020	2008 R	1980
6	1998	MINI X	75	75	.07020	2008 R	1981
6	1998	MINI X	20	20	.07020	2008 R	1981
6	1998	MINI X	75	75	.07020	2008 R	1982
6	1998	MINI X	19	19	.07020	2008 R	1982
6	1998	MINI X	65	65	.07020	2008 R	1983
6	1998	MINI X	20	20	.07020	2008 R	1983
6	1998	MINI X	44	0	.10750	2008 R	1984
6	1998	MINI X	11	0	.10750	2008 R	1984
6	1998	MINI X	21	21	.07020	2008	1985
6	1998	MINI X	48	0	.11375	2008 R	1986
6	1998	MINI X	21	21	.07020	2008	1986
6	1998	MINI X	16	16	.07020	2008	1987
6	1998	MINI X	31	0	.08500	2008	1988
6	1998	MINI X	20	0	.09250	2008 R	1989
6	1998	MINI X	33	0	.08875	2008 R	1990
6	1998	MINI X	62	0	.08750	2008 R	1991
6	1998	MINI X	11	0	.08750	2008	1991
6	1998	MINI X	32	0	.08750	2008 R	1991

6	1998	MINI X	6	0	.08500	2008 R	1992
6	1998	MINI X	351	0	.07125	2029	1994
6	1998	MINI X	6	0	.07330	2000	1995
6	1998	MINI X	40	0	.07890	2010 R	1995
6	1998	MINI X	54	54	.07130	2011	1996
6	1998	MINI X	66	66	.06950	2007	1997
6	1998	MINI X	51558	51558	.07150	2047	1997
6	1998	THED X	15908	0	.02500	2007	1957
6	1998	THED X	45837	33988	.07020	2008	1958
6	1998	THED X	40415	40415	.07060	2009	1959
6	1998	THED X	39179	39179	.07090	2010	1960
6	1998	THED X	9492	9492	.07130	2011	1961
6	1998	THED X	56	56	.07130	2011 R	1962
6	1998	THED X	57	57	.07130	2011 R	1963
6	1998	THED X	57	57	.07130	2011 R	1964
6	1998	THED X	56	56	.07130	2011 R	1965
6	1998	THED X	57	57	.07130	2011 R	1966
6	1998	THED X	57	57	.07130	2011 R	1967
6	1998	THED X	56	56	.07130	2011 R	1968
6	1998	THED X	57	57	.07130	2011 R	1969
6	1998	THED X	57	57	.07130	2011 R	1970
6	1998	THED X	56	56	.07130	2011 R	1971
6	1998	THED X	57	57	.07130	2011 R	1972
6	1998	THED X	21983	21983	.07190	2023 A	1973
6	1998	THED X	57	57	.07130	2011 R	1973
6	1998	THED X	7268	7268	.07170	2024 A	1974
6	1998	THED X	56	56	.07130	2011 R	1974
6	1998	THED X	57	57	.07130	2011 R	1975
6	1998	THED X	57	57	.07130	2011 R	1976
6	1998	THED X	56	56	.07130	2011 R	1977
6	1998	THED X	57	57	.07130	2011 R	1978
6	1998	THED X	57	57	.07130	2011 R	1979
6	1998	THED X	56	56	.07130	2011 R	1980
6	1998	THED X	57	57	.07130	2011 R	1981
6	1998	THED X	57	57	.07130	2011 R	1982
6	1998	THED X	56	56	.07130	2011 R	1983
6	1998	THED X	961	0	.10750	2011 R	1984
6	1998	THED X	280	0	.12375	2011 R	1985
6	1998	THED X	95	95	.07130	2011	1985
6	1998	THED X	4	0	.11375	2011 R	1986
6	1998	THED X	95	95	.07130	2011	1986
6	1998	THED X	81	0	.08875	2011 R	1987
6	1998	THED X	1417	1417	.07130	2011	1987
6	1998	THED X	685	0	.08500	2011	1988
6	1998	THED X	1	0	.08500	2011 R	1988
6	1998	THED X	898	0	.09250	2011 R	1989
6	1998	THED X	319	0	.08875	2011 R	1990
6	1998	THED X	745	0	.08875	2011	1990
6	1998	THED X	89	0	.08750	2011 R	1991
6	1998	THED X	2452	0	.08750	2011	1991
6	1998	THED X	57	0	.08500	2011 R	1992
6	1998	THED X	130	0	.08500	2011	1992
6	1998	THED X	2028	0	.07875	2011 R	1993

6	1998	THED X	2929	0	.07875	2011	1993
6	1998	THED X	1425	0	.07125	2029 A	1994
6	1998	THED X	196	196	.07020	2008	1996
6	1998	THED X	457	457	.07130	2011	1996
6	1998	THED X	1991	1991	.07150	2046	1996
6	1998	YAKC X	1068	193	.07210	2022	1956
6	1998	YAKC X	481	216	.07210	2022	1956
6	1998	YAKC X	1	1	.07210	2022 R	1959
6	1998	YAKC X	1	1	.07210	2022 R	1960
6	1998	YAKC X	1	1	.07210	2022 R	1961
6	1998	YAKC X	35	0	.10750	2022 R	1984
6	1998	YAKC X	10	0	.10750	2022 R	1984
6	1998	YAKC X	357	0	.12375	2022 R	1985
6	1998	YAKC X	7	0	.11375	2022 R	1986
6	1998	YAKC X	456	455	.07210	2022	1986
6	1998	YAKC X	126	0	.08875	2022 R	1987
6	1998	YAKC X	18	0	.09250	2022 R	1989
6	1998	YAKC X	40	0	.08875	2022 R	1990
6	1998	YAKC X	109	0	.08750	2022	1991
6	1998	YAKR X	961	533	.07020	2008	1958
6	1998	YAKR X	292	161	.07020	2008	1958
6	1998	YAKR X	17	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.12375	2008 R	1985
6	1998	YAKR X	69	69	.07020	2008	1985
6	1998	YAKR X	6	6	.07020	2008	1986
6	1998	YAKR X	9	0	.08875	2008 R	1987
6	1998	YAKR X	2	2	.07020	2008	1987
6	1998	YAKR X	11	0	.08500	2008	1988
6	1998	YAKR X	17	0	.09250	2008 R	1989
6	1998	YAKR X	76	0	.08750	2008 R	1991

3993273	3102498	908.36050	2668464
		2715584	

890775 = TOTAL FOR 6

6	1998	ZABF X	38	0	.08350	2032	1992	10
6	1998	ZABF X	67	67	.07700	2025	1995	07 05
6	1998	ZABF X	5622	5622	.05900	2003	1996	08 T
6	1998	ZABF X	7400	7400	.06800	2004	1997	01 T
6	1999	ZABF X	11080	11080	.05900	2014	1999	02 T
6	1998	ZACO X	140000	0	.12200	2003	1983	09
6	1998	ZACO X	150000	0	.13050	2004	1984	09
6	1998	ZACO X	-120000	0	.13050	2004	1989	09
6	1998	ZACO X	50000	0	.10150	1990	1985	09 T
6	1998	ZACO X	50000	0	.08150	1996	1986	03 T
6	1998	ZACO X	50000	0	.07800	1991	1986	03 T
6	1998	ZACO X	75000	0	.09300	2007	1987	04
6	1998	ZACO X	-75000	0	.09300	2007	1992	04
6	1998	ZACO X	50000	0	.08350	1992	1987	06 T
6	1998	ZACO X	90000	0	.09900	2008	1988	04
6	1998	ZACO X	40000	40000	.08550	2009	1989	07 T
6	1998	ZACO X	66000	0	.08600	1995	1989	09 T

6	1998	ZACO X	66000	66000	.08650	2002	1989	09	T	
6	1998	ZACO X	100000	0	.07140	2007	1992	07		
6	1998	ZACO X	-100000	0	.07140	2007	1998	09		
6	1998	ZACO X	80200	0	.05800	1997	1992	07	T	
6	1998	ZACO X	50000	0	.08050	2012	1992	10		
6	1998	ZACO X	50000	0	.07400	2013	1993	02		
6	1998	ZACO X	-50000	0	.07400	2013	1998	09		
6	1998	ZACO X	40000	40000	.06750	2013	1993	08		
6	1998	ZACO X	50000	50000	.06750	2014	1994	01		
6	1998	ZACO X	50000	0	.07100	1998	1994	05	01	P
6	1998	ZACO X	85000	85000	.07500	2015	1995	05	05	
6	1998	ZACO X	30000	30000	.06700	2011	1996	01	05	
6	1998	ZACO X	40000	40000	.07200	2017	1996	11	05	
6	1998	ZACO X	37700	37700	.06000	2009	1998	05	T	
6	1998	ZACO X	52800	52800	.05600	2013	1998	09	T	
6	1998	ZACO X	104300	104300	.05300	2008	1998	09	T	
6	1999	ZACO X	6000	6000	.07470	2019	1999	03		
6	1998	ZADB X	35000	35000	.07500	2015	1995	05	05	
6	1998	ZADB X	50000	50000	.06500	2000	1997	05	T	
6	1998	ZADB X	25000	25000	.06000	2008	1998	04		
6	1999	ZADB X	20000	20000	.06400	2004	1999	09	T	
6	1998	ZAFW X	25000	00	.08950	1999	1989	05	T	
6	1998	ZAFW X	50000	0	.07950	1996	1991	05	T	
6	1998	ZAFW X	20000	20000	.06950	2008	1993	02		
6	1998	ZAFW X	20000	0	.07650	1999	1994	09	01	P
6	1998	ZAFW X	22900	22900	.07200	2010	1995	08	05	
6	1998	ZAFW X	60000	60000	.06100	2013	1998	01		
6	1999	ZAFW X	20000	20000	.06300	2003	1999	09	T	
			1630107	828869						
				34.85000			89687			
					90307					

801238 = TOTAL FOR 6

6	1998	ZIRR X	25143	0	.00000	1997	1997			
6	1998	ZIRR X	16560	16560	.00000	2001	1997			
6	1998	ZIRR X	184	184	.00000	2004	1997			
6	1998	ZIRR X	208	208	.00000	2004	1997			
6	1998	ZIRR X	347	347	.00000	2004	1997			
6	1998	ZIRR X	2950	2950	.00000	2008	1997			
6	1998	ZIRR X	5702	5702	.00000	2009	1997			
6	1998	ZIRR X	2007	2007	.00000	2009	1997			
6	1998	ZIRR X	811	811	.00000	2012	1997			
6	1998	ZIRR X	49796	49796	.00000	2013	1997			
6	1998	ZIRR X	48554	48554	.00000	2014	1997			
6	1998	ZIRR X	54101	54101	.00000	2015	1997			
6	1998	ZIRR X	64264	64264	.00000	2016	1997			
6	1998	ZIRR X	60457	60457	.00000	2017	1997			
6	1998	ZIRR X	1071	1071	.00000	2017	1997			
6	1998	ZIRR X	718	718	.00000	2017	1997			
6	1998	ZIRR X	24267	24267	.00000	2018	1997			
6	1998	ZIRR X	680	680	.00000	2018	1997			
6	1998	ZIRR X	513	513	.00000	2018	1997			
6	1998	ZIRR X	61343	61343	.00000	2019	1997			

6	1998	ZIRR X	1125	1125	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	375	375	.00000	2019	1997
6	1998	ZIRR X	34108	34108	.00000	2020	1997
6	1998	ZIRR X	2635	2635	.00000	2020	1997
6	1998	ZIRR X	15436	15436	.00000	2021	1997
6	1998	ZIRR X	1390	1390	.00000	2021	1997
6	1998	ZIRR X	15416	15416	.00000	2022	1997
6	1998	ZIRR X	415	415	.00000	2022	1997
6	1998	ZIRR X	9663	9663	.00000	2023	1997
6	1998	ZIRR X	14088	14088	.00000	2024	1997
6	1998	ZIRR X	1943	1943	.00000	2024	1997
6	1998	ZIRR X	5041	5041	.00000	2024	1997
6	1998	ZIRR X	17104	17104	.00000	2025	1997
6	1998	ZIRR X	1184	1184	.00000	2025	1997
6	1998	ZIRR X	3810	3810	.00000	2026	1997
6	1998	ZIRR X	11994	11994	.00000	2026	1997
6	1998	ZIRR X	953	953	.00000	2026	1997
6	1998	ZIRR X	2119	2119	.00000	2026	1997
6	1998	ZIRR X	8171	8171	.00000	2027	1997
6	1998	ZIRR X	14159	14159	.00000	2028	1997
6	1998	ZIRR X	4204	4204	.00000	2028	1997
6	1998	ZIRR X	4092	4092	.00000	2029	1997
6	1998	ZIRR X	2432	2432	.00000	2030	1997
6	1998	ZIRR X	15606	15606	.00000	2031	1997
6	1998	ZIRR X	12038	12038	.00000	2035	1997
6	1998	ZIRR X	3660	3660	.00000	2036	1997
6	1998	ZIRR X	16163	16163	.00000	2036	1997
6	1998	ZIRR X	9986	9986	.00000	2036	1997
6	1998	ZIRR X	4720	4720	.00000	2037	1997
6	1998	ZIRR X	22069	22069	.00000	2037	1997
6	1998	ZIRR X	15619	15619	.00000	2039	1997
6	1998	ZIRR X	73699	73699	.00000	2042	1997
6	1998	ZIRR X	26329	26329	.00000	2045	1997
			795580	770437			
					.00000		109835
							111197

25143 = TOTAL FOR 6

PROJECTED FEDERAL INVESTMENTS

PROJECT	ORIGINAL PRINCIPAL	CURRENT PRINCIPAL	INTEREST RATE	DUE DATE	INSERVICE DATE	CALENDAR MONTH	
6	2000	BONN X	23476	23476	.06125	2050	2000
6	2000	COLU X	1185	1185	.06125	2050	2000
6	2000	COLU X	817	817	.06125	2050	2000
6	2000	CRFB X	4541	4541	.06125	2050	2000
6	2000	ICEH X	696	696	.06125	2050	2000
6	2000	JOHN X	17643	17643	.06125	2050	2000
6	2000	LOWG X	1261	1261	.06125	2050	2000

6	2000	LOWM X	521	521	.06125	2050	2000
6	2000	MCNA X	937	937	.06125	2050	2000
6	2000	MINI X	81	81	.06520	2010	2000
6	2001	BOIS X	27	27	.06190	2011	2001
6	2001	BOIS X	4	4	.06190	2011	2001
6	2001	BONN X	17820	17820	.06390	2051	2001
6	2001	COLU X	3557	3557	.06390	2051	2001
6	2001	COLU X	1163	1163	.06390	2051	2001
6	2001	CRFB X	457474	457474	.06180	2051	2001
6	2001	LSFW X	7649	7649	.05990	2051	2001
6	2001	MINI X	80	80	.06190	2011	2001
6	2001	THED X	12528	12528	.06390	2051	2001
6	2002	BOIS X	27	27	.05940	2012	2002
6	2002	BONN X	8910	8910	.06180	2052	2002
6	2002	COLU X	507	507	.06120	2027	2002
6	2002	COLU X	1162	1162	.06180	2052	2002
6	2002	CRFB X	111042	111042	.06180	2052	2002
6	2002	LSFW X	794	794	.06180	2052	2002
6	2002	MINI X	80	80	.05940	2012	2002
6	2002	THED X	12528	12528	.06180	2052	2002
6	2003	BOIS X	27	27	.05750	2013	2003
6	2003	BONN X	22216	22216	.05990	2053	2003
6	2003	COLU X	507	507	.05930	2028	2003
6	2003	COLU X	1161	1161	.05990	2053	2003
6	2003	CRFB X	44682	44682	.05990	2053	2003
6	2003	MINI X	80	80	.05750	2013	2003
6	2003	THED X	12528	12528	.05990	2053	2003
6	2004	BOIS X	27	27	.05730	2014	2004
6	2004	COLU X	507	507	.05930	2029	2004
6	2004	COLU X	1162	1162	.06000	2054	2004
6	2004	CRFB X	213203	213203	.06000	2054	2004
6	2004	MCNA X	7000	7000	.06000	2054	2004
6	2004	MINI X	80	80	.05730	2014	2004
6	2004	THED X	12528	12528	.06000	2054	2004

1002218 1002218

24.96250

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82074

0 = TOTAL FOR 6

6	2000	ZABF X	4100	4100	.07540	2045	2000	03
6	2000	ZACO X	32555	32555	.07400	2020	2000	03
6	2000	ZADB X	95369	95369	.07540	2045	2000	03
6	2000	ZAFW X	27000	27000	.07240	2015	2000	03
6	2001	ZABF X	7600	7600	.07290	2046	2001	03
6	2001	ZACO X	1000	1000	.07110	2021	2001	03
6	2001	ZADB X	76100	76100	.07290	2046	2001	03
6	2001	ZAFW X	27000	27000	.06920	2016	2001	03
6	2002	ZABF X	2100	2100	.07080	2047	2002	03
6	2002	ZADB X	89855	89855	.07080	2047	2002	03
6	2002	ZAFW X	34732	34732	.06690	2017	2002	03
6	2003	ZABF X	1400	1400	.06890	2048	2003	03
6	2003	ZADB X	86650	86650	.06890	2048	2003	03
6	2003	ZAFW X	38317	38317	.06500	2018	2003	03

6	2004	ZABF X	1400	1400	.06900	2049	2004	03
6	2004	ZADB X	61700	61700	.06900	2049	2004	03
6	2004	ZAFW X	35825	35825	.06480	2019	2004	03
			622703	622703				
					11.97400		34031	
							34596	

0 = TOTAL FOR 6

CHAPTER 6

**REPAYMENT STUDY RESULTS
CURRENT STUDY
FY 2004**

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**Summary of Interest Expense
Generation
FY 2004 Current Repayment Study**

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BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	222,012	236,125	252,003	255,597	261,715	264,263	255,433	247,136	242,823	242,823
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BPA BORROWING

BPA PROGRAM	1,649	2,075	2,426	2,549	2,313	1,859	1,859	1,859	1,859	1,859
BPA CONSERVATION	38,869	40,109	40,144	34,435	34,435	34,435	34,435	34,435	34,435	28,907
FISH, WILDLIFE & ENV	8,936	10,848	12,944	15,351	16,498	17,658	17,658	17,658	16,268	16,268
BUREAU DIRECT FUND	12,250	15,370	21,325	27,491	32,605	33,453	32,286	32,286	30,786	30,786
IRRIGATION ASSISTANC										
PREMIUMS	4					1,037		243		130

0LESS

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0 INTEREST INCOME	11,449	11,311	13,367	12,414	13,187	14,924	13,790	13,226	12,852	13,545
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0TOTAL BPA BORROWING	50,259	57,091	63,472	67,412	72,664	73,518	72,448	73,255	70,496	64,405
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TOTALS	272,271	293,216	315,475	323,009	334,379	337,781	327,881	320,391	313,319	307,228
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
BUREAU OF RECLAMATION										
BOISE	250	250	248	246	244	242	242	269	296	296
COLUMBIA BASIN	1,255	1,255	1,255	3,018	4,780	4,780	4,780	6,048	13,647	19,947
COLUMBIA BASIN - 3RD	32,564	32,564	32,564	32,564	32,564	32,564	29,405	25,875	18,651	5,269
HUNGRY HORSE	582	582	582	634	685	685	685	685	685	562
MINIDOKA	3,715	3,710	3,701	3,696	3,691	3,686	3,686	3,921	4,157	4,157
YAKIMA-CHANDLER	63	63	63	63	63		8	16	16	16
YAKIMA-ROZA										1
TOTAL BUREAU	38,429	38,424	38,413	40,221	42,027	41,957	38,806	36,814	37,452	30,248
CORPS OF ENGINEERS										
ALBENI FALLS	184	183	183	183	183	218	254	254	254	254
BONNEVILLE	7,509	12,649	17,825	17,987	18,113	18,104	20,209	20,683	22,652	21,777
BONNEVILLE - 2ND POW	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	7,897
CHIEF JOSEPH	14,919	14,918	14,918	17,155	19,392	19,392	19,392	19,505	11,987	8,175
COUGAR	686	686	686	686	6	11	11	11	11	11
COLUMBIA RIVER FISH	55,061	55,061	55,061	55,061	55,061	55,061	55,061	55,061	55,061	55,061
DETROIT-BIG CLIFF	3	3	3	3	908	1,811	1,811	1,811	1,811	1,811
DWORSHAK	10,770	10,770	10,762	11,123	11,483	1,382	1,382	1,382	1,473	1,532
GREEN PETER-FOSTER	5	5	66	184	238	238	240	245	252	254
HILLS CREEK	686	686	686	2	2	2	2	2	2	2
ICE HARBOR FISH BYPA										
ICE HARBOR	4,851	5,842	7,826	5,537	5,537	5,532	5,677	4,750	5,337	4,760
JOHN DAY	9,148	9,148	7,544	7,329	3,342	2,696	3,687	3,687	3,688	3,691
LIBBY	16,366	16,704	17,043	17,043	17,043	17,018	12,211	2,867	2,869	2,845
LITTLE GOOSE FISH BY										
LITTLE GOOSE	8,687	9,972	11,258	10,030	7,218	7,184	8,133	9,082	5,854	6,246
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	5	5	6	6	6	39	75	75	75	75
LOST CREEK	995	995	996	996	996	996	996	828	113	111
LOWER GRANITE	11,984	11,985	11,967	12,287	12,607	9,709	6,596	6,597	3,951	4,084
LOWER MONUMENTAL	7,052	7,053	4,319	3,138	4,332	5,549	5,549	5,621	5,499	3,157
MCNARY	585	552	555	555	555	3,926	7,296	7,271	7,272	7,271
MCNARY FISH BYPASS										
STRUBE										
THE DALLES	9,012	6,234	5,321	5,328	5,336	3,239	3,243	3,243	3,491	3,816
TOTAL CORPS	184,735	189,678	193,252	190,860	188,585	178,334	178,052	169,202	157,879	132,830
LOWER SNAKE F AND W	16,806	16,823	16,841	16,980	17,120	17,123	17,127	17,127	17,182	17,216

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	239,970	244,925	248,506	248,061	247,732	237,414	233,985	223,143	212,513	180,294
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BPA BORROWING

BPA PROGRAM	1,859	1,859	1,550	1,550	1,550	896	896	896	896	896
BPA CONSERVATION	23,225	23,225	21,215	21,215	15,558	12,183	5,808	5,808	2,928	2,928
FISH, WILDLIFE & ENV	16,268	14,619	14,619	14,619	10,959	10,959	9,004	7,136	4,812	2,321
BUREAU DIRECT FUND	30,624	25,677	24,762	24,762	24,762	24,762	22,137	22,137	22,137	22,137
IRRIGATION ASSISTANC										
PREMIUMS	3,847	925								

0LESS

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0 INTEREST INCOME	13,482	13,150	12,446	19,459	21,088	21,295	20,616	24,462	30,082	22,194
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0TOTAL BPA BORROWING	62,341	53,155	49,700	42,687	31,741	27,505	17,229	11,515	691	6,088
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TOTALS	302,311	298,080	298,206	290,748	279,473	264,919	251,214	234,658	213,204	186,382
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
BUREAU OF RECLAMATION										
BOISE	296	54	54	54	50	1		943		
COLUMBIA BASIN	19,947	19,452	20,611	23,730	17,286	1,820		1,548	5,313	
COLUMBIA BASIN - 3RD	903									
HUNGRY HORSE	562	103	103	210	73	73			356	
MINIDOKA	4,157	471	573	674	470	37		24		
YAKIMA-CHANDLER	16	16	16	16	12	12	17			
YAKIMA-ROZA	1	1	1	1	1	1			2	
TOTAL BUREAU	25,882	20,097	21,358	24,685	17,892	1,944	17	2,515	5,671	
CORPS OF ENGINEERS										
ALBENI FALLS	254	71	71	71	71	346		4		
BONNEVILLE	21,777	25,665	28,433	30,320	21,092	8,524	9,098	75		122
BONNEVILLE - 2ND POW	706									
CHIEF JOSEPH	8,175	7,606	7,606	7,612	286	286		1,844	406	
COUGAR	11	9	9	9	12	7				
COLUMBIA RIVER FISH	55,061	51,982	31,298	4,700	3,778	1,102	1,102			
DETROIT-BIG CLIFF	1,811	1,808	1,808	1,808	1,849	1,768	1			740
DWORSHAK	1,532	906	907	1,202	992	880	1			2
GREEN PETER-FOSTER	254	252	252	253	16	3	1	45	30	
HILLS CREEK	2		11	22						
ICE HARBOR FISH BYPA										
ICE HARBOR	4,733	4,729	5,753	5,097	4,382	4,812	2,642	410		
JOHN DAY	3,696	3,110	3,110	2,029	2,029	138	3			
LIBBY	2,039	2,301	2,360	2,360	181	436	196			
LITTLE GOOSE FISH BY										
LITTLE GOOSE	6,231	6,025	6,171	6,175	4,309	4,010	1	2	88	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	75	70	70	70	70	73	1	1		
LOST CREEK	111	102	141	180	80	2		21		
LOWER GRANITE	4,624	5,071	5,071	5,006	3,424	3,508	1		57	
LOWER MONUMENTAL	3,527	3,391	3,391	3,359	2,755	1,994	4			1,994
MCNARY	7,269	7,224	7,224	7,167	6,747	10,567	2	884		
MCNARY FISH BYPASS										
STRUBE										
THE DALLES	3,895	3,806	3,060	2,287	1,534	410	10			2,255
TOTAL CORPS	125,783	124,128	106,746	79,727	53,607	38,866	13,063	3,286	581	5,113
LOWER SNAKE F AND W	3,622	933	933	1,313	1,457	555	43		70	

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	155,287	145,158	129,037	105,725	72,956	41,365	13,123	5,801	6,322	5,113
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BPA BORROWING

BPA PROGRAM	896	96								
BPA CONSERVATION	2,480									
FISH, WILDLIFE & ENV										
BUREAU DIRECT FUND	22,137	6,459								
IRRIGATION ASSISTANC										
PREMIUMS	9,925	3,945								
0LESS										
0 AFUDC										
0 INTEREST INCOME	22,968	23,392	22,493	23,480	23,940	22,835	23,989	23,989	22,458	23,989
0TOTAL BPA BORROWING	12,470	-12,892	-22,493	-23,480	-23,940	-22,835	-23,989	-23,989	-22,458	-23,989
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TOTALS	167,757	132,266	106,544	82,245	49,016	18,530	-10,866	-18,188	-16,136	-18,876

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
BUREAU OF RECLAMATION										
BOISE			31							
COLUMBIA BASIN								1,580	282	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				219						
MINIDOKA			79					273		
YAKIMA-CHANDLER		31					20			
YAKIMA-ROZA				3					4	
TOTAL BUREAU		31	110	222			20	1,853	286	
CORPS OF ENGINEERS										
ALBENI FALLS	83					50				4
BONNEVILLE		2,062	1,408				1,943	126		836
BONNEVILLE - 2ND POW										
CHIEF JOSEPH			177					956	28	
COUGAR					83					5
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF					616				1	
DWORSHAK				206			1	1		
GREEN PETER-FOSTER	1							2		
HILLS CREEK										
ICE HARBOR FISH BYPA			2,141		361		6	460		784
ICE HARBOR										
JOHN DAY	244			1						
LIBBY	6		2			204	82			2
LITTLE GOOSE FISH BY										
LITTLE GOOSE		1,974			1	1			38	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	31					430				1
LOST CREEK								6		
LOWER GRANITE		2				1,711			21	1
LOWER MONUMENTAL			1	1						341
MCNARY	687		1			2,873				883
MCNARY FISH BYPASS										
STRUBE										
THE DALLES		2		742	121		1			1,465
TOTAL CORPS	1,052	4,040	3,730	950	1,182	5,269	2,033	1,551	88	4,322
LOWER SNAKE F AND W										
		19	17	602					1	20

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	1,052	4,090	3,857	1,774	1,182	5,269	2,053	3,404	375	4,342
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BPA BORROWING

BPA PROGRAM
 BPA CONSERVATION
 FISH, WILDLIFE & ENV
 BUREAU DIRECT FUND
 IRRIGATION ASSISTANC
 PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	24,023	22,492	24,023	24,023	23,025	24,023	24,023	23,022	24,023	24,023
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0TOTAL BPA BORROWING	-24,023	-22,492	-24,023	-24,023	-23,025	-24,023	-24,023	-23,022	-24,023	-24,023
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TOTALS	-22,971	-18,402	-20,166	-22,249	-21,843	-18,754	-21,970	-19,618	-23,648	-19,681
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
BUREAU OF RECLAMATION										
BOISE								32		
COLUMBIA BASIN								6,111	1,763	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				246						
MINIDOKA			62					136		
YAKIMA-CHANDLER							30			
YAKIMA-ROZA									7	
TOTAL BUREAU			62	246			30	6,279	1,770	
CORPS OF ENGINEERS										
ALBENI FALLS						2				
BONNEVILLE		2,739	34			122	5,219			4
BONNEVILLE - 2ND POW										
CHIEF JOSEPH								45	2,237	
COUGAR					51					
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF		18			908					
DWORSHAK				405		3			325	
GREEN PETER-FOSTER			4	2	1			154	565	
HILLS CREEK			57							
ICE HARBOR FISH BYPA			1,448				1,139	410		
ICE HARBOR										
JOHN DAY	18		1			88		1		
LIBBY						6	340			
LITTLE GOOSE FISH BY										
LITTLE GOOSE		404		72			980		348	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER						269				
LOST CREEK								1		
LOWER GRANITE						299		2	320	
LOWER MONUMENTAL		72			941		1			1,589
MCNARY				2		2,450	1			
MCNARY FISH BYPASS										
STRUBE										
THE DALLES				503	1	53		2	61	40
TOTAL CORPS	18	3,233	1,544	984	1,902	3,292	7,680	615	3,856	1,633
LOWER SNAKE F AND W										
				318			17	3	1	

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	18	3,233	1,606	1,548	1,902	3,292	7,727	6,897	5,627	1,633
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BPA BORROWING

BPA PROGRAM
 BPA CONSERVATION
 FISH, WILDLIFE & ENV
 BUREAU DIRECT FUND
 IRRIGATION ASSISTANC
 PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	22,867	24,023	24,023	22,898	24,023	24,023	22,666	24,023	24,023	23,229
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0TOTAL BPA BORROWING	-22,867	-24,023	-24,023	-22,898	-24,023	-24,023	-22,666	-24,023	-24,023	-23,229
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TOTALS	-22,849	-20,790	-22,417	-21,350	-22,121	-20,731	-14,939	-17,126	-18,396	-21,596
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2050	2051	2052	2053	2054
BUREAU OF RECLAMATION					
BOISE			686		
COLUMBIA BASIN			1,299	1,609	
COLUMBIA BASIN - 3RD					
HUNGRY HORSE				1,847	
MINIDOKA			200		
YAKIMA-CHANDLER					
YAKIMA-ROZA					
TOTAL BUREAU			2,185	3,456	
CORPS OF ENGINEERS					
ALBENI FALLS		4			
BONNEVILLE		1,946	2,254	958	
BONNEVILLE - 2ND POW					
CHIEF JOSEPH				17	
COUGAR					1
COLUMBIA RIVER FISH					
DETROIT-BIG CLIFF	1				164
DWORSHAK	1			361	
GREEN PETER-FOSTER		1			
HILLS CREEK			29		
ICE HARBOR FISH BYPA		1	835	784	
ICE HARBOR	213				
JOHN DAY	1,546				2
LIBBY		142		2	
LITTLE GOOSE FISH BY					
LITTLE GOOSE		1,285		1	
LOWER GRANITE FISH B					
LOWER MONUMENTAL FIS					
LOOKOUT POINT-DEXTER		1			
LOST CREEK			2		
LOWER GRANITE	547		1	14	
LOWER MONUMENTAL				72	1
MCNARY		884		1	
MCNARY FISH BYPASS					
STRUBE					
THE DALLES	1			7	1
TOTAL CORPS	2,309	4,264	3,121	2,217	169
LOWER SNAKE F AND W				87	
BONNEVILLE POWER ADM					

TOTAL APPROPRIATIONS	2,309	4,264	5,306	5,760	169
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BPA BORROWING

BPA PROGRAM					
BPA CONSERVATION					
FISH, WILDLIFE & ENV					
BUREAU DIRECT FUND					
IRRIGATION ASSISTANC					
PREMIUMS					
0 LESS					
0 AFUDC					
0 INTEREST INCOME	24,023	24,023	22,953	24,023	24,023
0 TOTAL BPA BORROWING	-24,023	-24,023	-22,953	-24,023	-24,023
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TOTALS	-21,714	-19,759	-17,647	-18,263	-23,854

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SUMMARY OF INTEREST EXPENSE	GENERATION	FY 2004	REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL
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TOTALS

BUREAU OF RECLAMATION

BOISE	7,280
COLUMBIA BASIN	196,721
COLUMBIA BASIN - 3RD	601,127
HUNGRY HORSE	20,797
MINIDOKA	82,660
YAKIMA-CHANDLER	1,187
YAKIMA-ROZA	341

TOTAL BUREAU	910,113
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CORPS OF ENGINEERS

ALBENI FALLS	12,314
BONNEVILLE	408,951
BONNEVILLE - 2ND POW	506,916
CHIEF JOSEPH	393,991
COUGAR	9,862
COLUMBIA RIVER FISH	1,123,611
DETROIT-BIG CLIFF	31,244
DWORSHAK	177,484
GREEN PETER-FOSTER	6,181
HILLS CREEK	9,053
ICE HARBOR FISH BYPA	
ICE HARBOR	145,437
JOHN DAY	181,969

LIBBY	296,328
LITTLE GOOSE FISH BY	
LITTLE GOOSE	208,650
LOWER GRANITE FISH B	
LOWER MONUMENTAL FIS	
LOOKOUT POINT-DEXTER	14,083
LOST CREEK	18,618
LOWER GRANITE	241,316
LOWER MONUMENTAL	149,079
MCNARY	168,599
MCNARY FISH BYPASS	
STRUBE	
THE DALLES	193,643
TOTAL CORPS	4,297,329
LOWER SNAKE F AND W	347,607
TOTAL APPROPRIATIONS	5,555,049
BONNEVILLE POWER ADM	
BPA BORROWING	
BPA PROGRAM	34,147
BPA CONSERVATION	491,212
FISH, WILDLIFE & ENV	255,403
BUREAU DIRECT FUND	541,131
IRRIGATION ASSISTANC	
PREMIUMS	20,056
0LESS	
0 AFUDC	
0 INTEREST INCOME	1,153,415
0TOTAL BPA BORROWING	188,534
TOTALS	5,743,583

**Application of Amortization
Generation
FY 2004 Current Repayment Study**

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APPLICATION OF AMORTIZATION

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2000	COLUMBIA BASIN	1995	2000	25	25	.06620		25
	HUNGRY HORSE	1995	2000	6	6	.06620	R	6
	HUNGRY HORSE	1995	2000	84	84	.06620		84
	BUREAU DIRECT FUND	1997	2000	50,000	50,000	.06500		50,000
	BPA PROGRAM	1995	2025	67	67	.07700		67
	LOWER MONUMENTAL	1996	2016	668	668	.07290		668
	JOHN DAY	1996	2016	1,072	1,072	.07290		1,072
	BONNEVILLE	1996	2016	834	834	.07290	R	834
	ALBENI FALLS	1996	2016	130	130	.07290		130
	LOWER GRANITE	1995	2017	458	458	.07290		458
	LOWER GRANITE	1995	2017	388	388	.07290		388
	LOWER GRANITE	1995	2017	77	77	.07290	R	77
	GREEN PETER-FOSTER	1967	2017	11,919	11,919	.07290		11,919
	COLUMBIA BASIN	1967	2017	758	758	.07290		758
	GREEN PETER-FOSTER	1987	2018	1	1	.07280		1
	GREEN PETER-FOSTER	1986	2018	3	3	.07280		3
	GREEN PETER-FOSTER	1985	2018	16	16	.07280		16
	GREEN PETER-FOSTER	1983	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1982	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1981	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1980	2018	40	40	.07280	R	40
	GREEN PETER-FOSTER	1979	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1978	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1977	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1976	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1975	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1974	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1973	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1972	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1971	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1970	2018	40	40	.07280	R	40
	GREEN PETER-FOSTER	1969	2018	39	39	.07280	R	39
	JOHN DAY	1968	2018	21,686	21,686	.07280		21,686
	GREEN PETER-FOSTER	1968	2018	12,180	12,180	.07280		1,652
	TOTAL							90,431

APPLICATION OF AMORTIZATION

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2001	COLUMBIA BASIN	1956	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1956	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1957	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1957	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1958	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1958	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1959	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1959	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1960	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1960	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1961	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1961	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1962	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1962	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1963	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1963	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1964	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1964	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1965	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1965	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1966	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1966	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1967	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1967	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1968	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1968	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1969	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1969	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1970	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1970	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1971	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1971	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1972	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1972	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1973	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1973	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1974	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1974	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1975	2001	258	258	.06710	R	258

APPLICATION OF AMORTIZATION

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
COLUMBIA BASIN	1975	2001	48	48	.06710	R	48
COLUMBIA BASIN	1976	2001	259	259	.06710	R	259
COLUMBIA BASIN	1976	2001	48	48	.06710	R	48
COLUMBIA BASIN	1977	2001	258	258	.06710	R	258
COLUMBIA BASIN	1977	2001	48	48	.06710	R	48
COLUMBIA BASIN	1978	2001	258	258	.06710	R	258
COLUMBIA BASIN	1978	2001	48	48	.06710	R	48
COLUMBIA BASIN	1979	2001	258	258	.06710	R	258
COLUMBIA BASIN	1979	2001	48	48	.06710	R	48
COLUMBIA BASIN	1980	2001	258	258	.06710	R	258
COLUMBIA BASIN	1980	2001	48	48	.06710	R	48
COLUMBIA BASIN	1981	2001	259	259	.06710	R	259
COLUMBIA BASIN	1981	2001	48	48	.06710	R	48
COLUMBIA BASIN	1982	2001	258	258	.06710	R	258
COLUMBIA BASIN	1982	2001	48	48	.06710	R	48
COLUMBIA BASIN	1983	2001	258	258	.06710	R	258
COLUMBIA BASIN	1983	2001	48	48	.06710	R	48
COLUMBIA BASIN	1985	2001	236	236	.06710		236
COLUMBIA BASIN	1985	2001	11	11	.06710		11
COLUMBIA BASIN	1955	2001	258	258	.06710	R	258
COLUMBIA BASIN	1954	2001	48	48	.06710	R	48
COLUMBIA BASIN	1954	2001	258	258	.06710	R	258
BOISE	1986	2001	89	89	.06710		89
COLUMBIA BASIN	1986	2001	127	127	.06710		127
COLUMBIA BASIN	1955	2001	48	48	.06710	R	48
COLUMBIA BASIN	1987	2001	13	13	.06710		13
COLUMBIA BASIN	1951	2001	7,719	7,719	.06710		7,719
COLUMBIA BASIN	1951	2001	1,437	1,437	.06710		1,437
COLUMBIA BASIN	1993	2001	45	45	.06710		45
COLUMBIA BASIN	1952	2001	258	258	.06710	R	258
COLUMBIA BASIN	1952	2001	48	48	.06710	R	48
COLUMBIA BASIN	1953	2001	258	258	.06710	R	258
COLUMBIA BASIN	1953	2001	48	48	.06710	R	48
GREEN PETER-FOSTER	1968	2018	12,180	10,528	.07280		10,528
ICE HARBOR	1995	2019	849	849	.07270		849
ICE HARBOR	1995	2019	171	171	.07270		171
ICE HARBOR	1995	2019	84	84	.07270		84
LOWER MONUMENTAL	1969	2019	25,083	25,083	.07270		22,681
TOTAL							53,787

APPLICATION OF AMORTIZATION

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2002	BPA CONSERVATION	1989	2002	66,000	66,000	.08650		66,000
	LOWER MONUMENTAL	1969	2019	25,083	2,402	.07270		2,402
	JOHN DAY	1969	2019	96,104	96,104	.07270		38,999
	TOTAL							107,401
2003	FISH, WILDLIFE & ENVIRONMENTAL	1999	2003	20,000	20,000	.06300		20,000
	BPA PROGRAM	1996	2003	5,622	5,622	.05900		5,622
	HUNGRY HORSE	1955	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	1	1	.06840	R	1
	HUNGRY HORSE	1957	2003	18	18	.06840	R	18
	HUNGRY HORSE	1957	2003	1	1	.06840	R	1
	HUNGRY HORSE	1958	2003	18	18	.06840	R	18
	HUNGRY HORSE	1958	2003	1	1	.06840	R	1
	HUNGRY HORSE	1959	2003	18	18	.06840	R	18
	HUNGRY HORSE	1959	2003	1	1	.06840	R	1
	HUNGRY HORSE	1960	2003	18	18	.06840	R	18
	HUNGRY HORSE	1960	2003	1	1	.06840	R	1
	HUNGRY HORSE	1961	2003	18	18	.06840	R	18
	HUNGRY HORSE	1961	2003	1	1	.06840	R	1
	HUNGRY HORSE	1962	2003	18	18	.06840	R	18
	HUNGRY HORSE	1962	2003	1	1	.06840	R	1
	HUNGRY HORSE	1963	2003	18	18	.06840	R	18
	HUNGRY HORSE	1963	2003	1	1	.06840	R	1
	HUNGRY HORSE	1964	2003	17	17	.06840	R	17
	HUNGRY HORSE	1964	2003	1	1	.06840	R	1
	HUNGRY HORSE	1965	2003	17	17	.06840	R	17
	HUNGRY HORSE	1965	2003	1	1	.06840	R	1
	HUNGRY HORSE	1966	2003	17	17	.06840	R	17
	HUNGRY HORSE	1966	2003	1	1	.06840	R	1
	HUNGRY HORSE	1967	2003	18	18	.06840	R	18
	HUNGRY HORSE	1967	2003	1	1	.06840	R	1
	HUNGRY HORSE	1968	2003	18	18	.06840	R	18
	HUNGRY HORSE	1968	2003	1	1	.06840	R	1
	HUNGRY HORSE	1953	2003	490	490	.06840		490
	HUNGRY HORSE	1953	2003	16,359	16,359	.06840		16,359
	DETROIT-BIG CLIFF	1953	2003	3,078	3,078	.06840		3,078
	HUNGRY HORSE	1969	2003	18	18	.06840	R	18

APPLICATION OF AMORTIZATION

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
HUNGRY HORSE	1969	2003	1	1	.06840	R	1
HUNGRY HORSE	1955	2003	1	1	.06840	R	1
HUNGRY HORSE	1970	2003	18	18	.06840	R	18
HUNGRY HORSE	1970	2003	1	1	.06840	R	1
HUNGRY HORSE	1971	2003	18	18	.06840	R	18
HUNGRY HORSE	1971	2003	1	1	.06840	R	1
HUNGRY HORSE	1972	2003	18	18	.06840	R	18
HUNGRY HORSE	1972	2003	1	1	.06840	R	1
HUNGRY HORSE	1973	2003	18	18	.06840	R	18
HUNGRY HORSE	1973	2003	1	1	.06840	R	1
HUNGRY HORSE	1974	2003	17	17	.06840	R	17
HUNGRY HORSE	1974	2003	1	1	.06840	R	1
HUNGRY HORSE	1975	2003	17	17	.06840	R	17
HUNGRY HORSE	1975	2003	1	1	.06840	R	1
HUNGRY HORSE	1976	2003	10	10	.06840	R	10
HUNGRY HORSE	1976	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	17	17	.06840	R	17
HUNGRY HORSE	1977	2003	18	18	.06840	R	18
HUNGRY HORSE	1977	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	1	1	.06840	R	1
HUNGRY HORSE	1978	2003	18	18	.06840	R	18
HUNGRY HORSE	1978	2003	1	1	.06840	R	1
HUNGRY HORSE	1979	2003	18	18	.06840	R	18
HUNGRY HORSE	1979	2003	1	1	.06840	R	1
HUNGRY HORSE	1980	2003	18	18	.06840	R	18
HUNGRY HORSE	1980	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1982	2003	1	1	.06840	R	1
HUNGRY HORSE	1983	2003	12	12	.06840	R	12
HUNGRY HORSE	1983	2003	1	1	.06840	R	1
JOHN DAY	1969	2019	96,104	57,105	.07270		26,922
TOTAL							72,984

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2004	DETROIT-BIG CLIFF	1956	2004	19	19	.06880	R	19
	BUREAU DIRECT FUND	1999	2004	20,000	20,000	.06400		20,000
	DETROIT-BIG CLIFF	1957	2004	18	18	.06880	R	18
	BPA PROGRAM	1997	2004	7,400	7,400	.06800		7,400
	DETROIT-BIG CLIFF	1958	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1959	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1960	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1961	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1962	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1963	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1964	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1965	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1966	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1967	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1968	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1969	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1970	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1971	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1972	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1973	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1974	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1975	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1976	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1954	2004	20,162	20,162	.06880		20,162
	DETROIT-BIG CLIFF	1977	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1978	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1979	2004	18	18	.06880	R	18
	MCNARY	1954	2004	35,757	35,757	.06880		35,757
	DETROIT-BIG CLIFF	1980	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1981	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1982	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1983	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1985	2004	6	6	.06880		6
	DETROIT-BIG CLIFF	1987	2004	3	3	.06880		3
	DETROIT-BIG CLIFF	1955	2004	18	18	.06880	R	18
	JOHN DAY	1969	2019	96,104	30,183	.07270		8,421
	TOTAL							----- 92,285

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2005	MCNARY	1955	2005	53,493	53,493	.06910		53,493
	ALBENI FALLS	1956	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1956	2005	52	52	.06910	R	52
	ALBENI FALLS	1957	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1957	2005	51	51	.06910	R	51
	ALBENI FALLS	1958	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1958	2005	51	51	.06910	R	51
	ALBENI FALLS	1959	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1955	2005	28,417	28,417	.06910		28,417
	LOOKOUT POINT-DEXTER	1959	2005	51	51	.06910	R	51
	ALBENI FALLS	1960	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1960	2005	51	51	.06910	R	51
	ALBENI FALLS	1961	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1961	2005	52	52	.06910	R	52
	ALBENI FALLS	1962	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1962	2005	51	51	.06910	R	51
	ALBENI FALLS	1963	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1963	2005	51	51	.06910	R	51
	ALBENI FALLS	1964	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1964	2005	51	51	.06910	R	51
	ALBENI FALLS	1965	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1965	2005	51	51	.06910	R	51
	ALBENI FALLS	1966	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1966	2005	51	51	.06910	R	51
	ALBENI FALLS	1967	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1967	2005	52	52	.06910	R	52
	ALBENI FALLS	1968	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1968	2005	51	51	.06910	R	51
	ALBENI FALLS	1969	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1969	2005	51	51	.06910	R	51
	ALBENI FALLS	1970	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1970	2005	51	51	.06910	R	51
	ALBENI FALLS	1971	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1971	2005	51	51	.06910	R	51
	ALBENI FALLS	1972	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1972	2005	51	51	.06910	R	51
	ALBENI FALLS	1973	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1973	2005	52	52	.06910	R	52
	ALBENI FALLS	1974	2005	11	11	.06910	R	11

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LOOKOUT POINT-DEXTER	1974	2005	51	51	.06910	R	51
ALBENI FALLS	1975	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1975	2005	51	51	.06910	R	51
ALBENI FALLS	1976	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1976	2005	51	51	.06910	R	51
ALBENI FALLS	1977	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1977	2005	51	51	.06910	R	51
ALBENI FALLS	1978	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1978	2005	51	51	.06910	R	51
ALBENI FALLS	1979	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1979	2005	52	52	.06910	R	52
ALBENI FALLS	1980	2005	11	11	.06910	R	11
ALBENI FALLS	1955	2005	16,854	16,854	.06910		16,854
LOOKOUT POINT-DEXTER	1980	2005	51	51	.06910	R	51
ALBENI FALLS	1981	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1981	2005	51	51	.06910	R	51
ALBENI FALLS	1982	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1982	2005	51	51	.06910	R	51
ALBENI FALLS	1983	2005	11	11	.06910	R	11
CHIEF JOSEPH	1955	2005	2,262	2,262	.06910		2,262
LOOKOUT POINT-DEXTER	1983	2005	51	51	.06910	R	51
ALBENI FALLS	1985	2005	7	7	.06910		7
LOOKOUT POINT-DEXTER	1985	2005	52	52	.06910		52
ALBENI FALLS	1986	2005	293	293	.06910		293
LOOKOUT POINT-DEXTER	1986	2005	42	42	.06910		42
ALBENI FALLS	1987	2005	12	12	.06910		12
LOOKOUT POINT-DEXTER	1987	2005	9	9	.06910		9
BUREAU DIRECT FUND	2000	2045	95,369	95,369	.07540		15,478
YAKIMA-ROZA	1987	2008	2	2	.07020		2
MINIDOKA	1987	2008	16	16	.07020		16
YAKIMA-ROZA	1986	2008	6	6	.07020		6
MINIDOKA	1986	2008	21	21	.07020		21
YAKIMA-ROZA	1985	2008	69	69	.07020		69
MINIDOKA	1985	2008	21	21	.07020		21
CHIEF JOSEPH	1985	2008	46	46	.07020		46
MINIDOKA	1983	2008	20	20	.07020	R	20
MINIDOKA	1983	2008	65	65	.07020	R	65
CHIEF JOSEPH	1983	2008	224	224	.07020	R	224
MINIDOKA	1982	2008	19	19	.07020	R	19

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
MINIDOKA	1982	2008	75	75	.07020	R	75
CHIEF JOSEPH	1982	2008	223	223	.07020	R	223
MINIDOKA	1981	2008	20	20	.07020	R	20
MINIDOKA	1981	2008	75	75	.07020	R	75
CHIEF JOSEPH	1981	2008	223	223	.07020	R	223
MINIDOKA	1980	2008	20	20	.07020	R	20
MINIDOKA	1980	2008	75	75	.07020	R	75
CHIEF JOSEPH	1980	2008	223	223	.07020	R	223
MINIDOKA	1979	2008	19	19	.07020	R	19
MINIDOKA	1979	2008	75	75	.07020	R	75
CHIEF JOSEPH	1979	2008	223	223	.07020	R	223
MINIDOKA	1978	2008	20	20	.07020	R	20
MINIDOKA	1978	2008	75	75	.07020	R	75
CHIEF JOSEPH	1978	2008	224	224	.07020	R	224
MINIDOKA	1977	2008	56	56	.07020	R	56
CHIEF JOSEPH	1977	2008	223	223	.07020	R	223
CHIEF JOSEPH	1976	2008	223	223	.07020	R	223
CHIEF JOSEPH	1975	2008	223	223	.07020	R	223
CHIEF JOSEPH	1974	2008	223	223	.07020	R	223
CHIEF JOSEPH	1973	2008	224	224	.07020	R	224
CHIEF JOSEPH	1972	2008	223	223	.07020	R	223
CHIEF JOSEPH	1971	2008	223	223	.07020	R	223
CHIEF JOSEPH	1970	2008	223	223	.07020	R	223
THE DALLES	1996	2008	196	196	.07020		196
CHIEF JOSEPH	1969	2008	223	223	.07020	R	223
CHIEF JOSEPH	1968	2008	224	224	.07020	R	224
CHIEF JOSEPH	1967	2008	223	223	.07020	R	223
CHIEF JOSEPH	1966	2008	223	223	.07020	R	223
CHIEF JOSEPH	1965	2008	223	223	.07020	R	223
CHIEF JOSEPH	1964	2008	223	223	.07020	R	223
CHIEF JOSEPH	1963	2008	224	224	.07020	R	224
CHIEF JOSEPH	1962	2008	223	223	.07020	R	223
CHIEF JOSEPH	1961	2008	223	223	.07020	R	223
CHIEF JOSEPH	1960	2008	223	223	.07020	R	223
CHIEF JOSEPH	1959	2008	223	223	.07020	R	223
YAKIMA-ROZA	1958	2008	161	161	.07020		161
YAKIMA-ROZA	1958	2008	533	533	.07020		533
THE DALLES	1958	2008	33,988	33,988	.07020		16,628
TOTAL							142,544

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2006	CHIEF JOSEPH	1956	2006	13,643	13,643	.06950		13,643
	MCNARY	1956	2006	38,748	38,748	.06950		38,748
	BOISE	1996	2006	7	7	.06950		7
	MCNARY	1996	2006	778	778	.06950		778
	DETROIT-BIG CLIFF	1996	2006	24	24	.06950		24
	THE DALLES	1958	2008	33,988	17,360	.07020		17,360
	CHIEF JOSEPH	1958	2008	31,901	31,901	.07020		31,901
	MCNARY	1986	2007	454	454	.06980		454
	MCNARY	1985	2007	557	557	.06980		557
	MCNARY	1983	2007	468	468	.06980	R	468
	MCNARY	1982	2007	467	467	.06980	R	467
	MCNARY	1981	2007	468	468	.06980	R	468
	MCNARY	1980	2007	468	468	.06980	R	468
	MCNARY	1979	2007	468	468	.06980	R	468
	MCNARY	1978	2007	468	468	.06980	R	468
	MCNARY	1977	2007	467	467	.06980	R	467
	MCNARY	1976	2007	468	468	.06980	R	468
	MCNARY	1975	2007	468	468	.06980	R	468
	MCNARY	1974	2007	468	468	.06980	R	468
	MCNARY	1973	2007	467	467	.06980	R	467
	MCNARY	1972	2007	468	468	.06980	R	468
	MCNARY	1971	2007	468	468	.06980	R	468
	MCNARY	1970	2007	468	468	.06980	R	468
	MCNARY	1969	2007	468	468	.06980	R	468
	MCNARY	1968	2007	468	468	.06980	R	468
	MCNARY	1967	2007	467	467	.06980	R	467
	MCNARY	1966	2007	468	468	.06980	R	468
	MCNARY	1965	2007	468	468	.06980	R	468
	MCNARY	1964	2007	468	468	.06980	R	468
	MCNARY	1963	2007	468	468	.06980	R	468
	MCNARY	1962	2007	467	467	.06980	R	467
	MCNARY	1987	2007	24	24	.06980		24
	MCNARY	1961	2007	468	468	.06980	R	468
	MCNARY	1960	2007	468	468	.06980	R	468
	MCNARY	1959	2007	468	468	.06980	R	468
	MCNARY	1958	2007	468	468	.06980	R	468
	MCNARY	1957	2007	24,985	24,985	.06980		3,021
	TOTAL							----- 118,680

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2007	CHIEF JOSEPH	1957	2007	39,586	39,586	.06980		39,586
	MCNARY	1957	2007	24,985	21,964	.06980		21,964
	MINIDOKA	1997	2007	66	66	.06950		66
	BOISE	1997	2007	9	9	.06950		9
	HUNGRY HORSE	1997	2007	154	154	.06950		154
	FISH, WILDLIFE & ENVIRONMENTAL	1993	2008	20,000	20,000	.06950		20,000
	BUREAU DIRECT FUND	1998	2008	25,000	25,000	.06000		25,000
	TOTAL							106,779
2008	BPA CONSERVATION	1998	2008	104,300	104,300	.05300		104,300
	BUREAU DIRECT FUND	2000	2045	95,369	79,891	.07540		1
	TOTAL							104,301
2009	BPA CONSERVATION	1998	2009	37,700	37,700	.06000		37,700
	BPA CONSERVATION	1989	2009	40,000	40,000	.08550		40,000
	THE DALLES	1959	2009	40,415	40,415	.07060		40,415
	BUREAU DIRECT FUND	2000	2045	95,369	79,890	.07540		2,148
	TOTAL							120,263
2010	MINIDOKA	2000	2010	81	81	.06520		81
	CHIEF JOSEPH	1995	2010	15	15	.07090		15
	THE DALLES	1960	2010	39,179	39,179	.07090		39,179
	MCNARY	1995	2010	509	509	.07090		509
	BONNEVILLE	1995	2010	25	25	.07090	R	25
	FISH, WILDLIFE & ENVIRONMENTAL	1995	2010	22,900	22,900	.07200		22,900
	ALBENI FALLS	1995	2010	17	17	.07090		17
	BUREAU DIRECT FUND	2000	2045	95,369	77,742	.07540		65,604
	TOTAL							128,330
2011	BPA CONSERVATION	1996	2011	30,000	30,000	.06700		30,000
	MINIDOKA	2001	2011	80	80	.06190		80
	THE DALLES	1985	2011	95	95	.07130		95
	BOISE	2001	2011	4	4	.06190		4
	THE DALLES	1961	2011	9,492	9,492	.07130		9,492
	BOISE	2001	2011	27	27	.06190		27
	THE DALLES	1962	2011	56	56	.07130	R	56
	THE DALLES	1963	2011	57	57	.07130	R	57
	THE DALLES	1987	2011	1,417	1,417	.07130		1,417

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THE DALLES	1964	2011	57	57	.07130	R	57
THE DALLES	1965	2011	56	56	.07130	R	56
THE DALLES	1966	2011	57	57	.07130	R	57
THE DALLES	1967	2011	57	57	.07130	R	57
DWORSHAK	1996	2011	107	107	.07130		107
THE DALLES	1968	2011	56	56	.07130	R	56
THE DALLES	1996	2011	457	457	.07130		457
MINIDOKA	1996	2011	54	54	.07130		54
THE DALLES	1969	2011	57	57	.07130	R	57
THE DALLES	1970	2011	57	57	.07130	R	57
THE DALLES	1971	2011	56	56	.07130	R	56
MCNARY	1996	2011	3	3	.07130		3
THE DALLES	1972	2011	57	57	.07130	R	57
THE DALLES	1973	2011	57	57	.07130	R	57
THE DALLES	1974	2011	56	56	.07130	R	56
THE DALLES	1975	2011	57	57	.07130	R	57
LOWER GRANITE	1996	2011	255	255	.07130		255
THE DALLES	1986	2011	95	95	.07130		95
THE DALLES	1976	2011	57	57	.07130	R	57
THE DALLES	1977	2011	56	56	.07130	R	56
THE DALLES	1978	2011	57	57	.07130	R	57
THE DALLES	1979	2011	57	57	.07130	R	57
THE DALLES	1980	2011	56	56	.07130	R	56
JOHN DAY	1996	2011	237	237	.07130		237
THE DALLES	1983	2011	56	56	.07130	R	56
THE DALLES	1981	2011	57	57	.07130	R	57
THE DALLES	1982	2011	57	57	.07130	R	57
BUREAU DIRECT FUND	2000	2045	95,369	12,138	.07540		12,138
BPA PROGRAM	2000	2045	4,100	4,100	.07540		4,100
JOHN DAY	1969	2019	96,104	21,762	.07270		21,762
LOWER MONUMENTAL	1982	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1981	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1980	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1979	2020	214	214	.07250	R	214
GREEN PETER-FOSTER	1995	2020	11	11	.07250		11
GREEN PETER-FOSTER	1995	2020	24	24	.07250		24
BONNEVILLE	1995	2020	20	20	.07250		20
LOWER MONUMENTAL	1978	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1977	2020	214	214	.07250	R	214

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+							
LOWER MONUMENTAL	1976	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1975	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1974	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1986	2020	132	132	.07250		132
LOWER MONUMENTAL	1973	2020	214	214	.07250	R	214
JOHN DAY	1995	2020	79	79	.07250		79
LOWER MONUMENTAL	1972	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1971	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1970	2020	51,218	51,218	.07250		34,926

TOTAL							119,329
2012							
ICE HARBOR	1985	2012	41	41	.07160		41
MINIDOKA	2002	2012	80	80	.05940		80
HILLS CREEK	1985	2012	6	6	.07160		6
HILLS CREEK	1962	2012	9,264	9,264	.07160		9,264
ICE HARBOR	1962	2012	44,308	44,308	.07160		44,308
ICE HARBOR	1962	2012	493	493	.07160		493
HILLS CREEK	1963	2012	12	12	.07160	R	12
BOISE	2002	2012	27	27	.05940		27
ICE HARBOR	1963	2012	46	46	.07160	R	46
ICE HARBOR	1963	2012	1	1	.07160	R	1
HILLS CREEK	1964	2012	13	13	.07160	R	13
ICE HARBOR	1964	2012	46	46	.07160	R	46
ICE HARBOR	1964	2012	1	1	.07160	R	1
HILLS CREEK	1965	2012	13	13	.07160	R	13
ICE HARBOR	1965	2012	46	46	.07160	R	46
ICE HARBOR	1965	2012	1	1	.07160	R	1
HILLS CREEK	1966	2012	13	13	.07160	R	13
ICE HARBOR	1966	2012	46	46	.07160	R	46
ICE HARBOR	1966	2012	1	1	.07160	R	1
ICE HARBOR	1986	2012	137	137	.07160		137
HILLS CREEK	1967	2012	13	13	.07160	R	13
ICE HARBOR	1967	2012	46	46	.07160	R	46
ICE HARBOR	1967	2012	1	1	.07160	R	1
HILLS CREEK	1968	2012	13	13	.07160	R	13
ICE HARBOR	1968	2012	46	46	.07160	R	46
ICE HARBOR	1968	2012	1	1	.07160	R	1
HILLS CREEK	1969	2012	13	13	.07160	R	13
ICE HARBOR	1982	2012	1	1	.07160	R	1

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
ICE HARBOR	1982	2012	46	46	.07160	R	46
ICE HARBOR	1969	2012	46	46	.07160	R	46
HILLS CREEK	1982	2012	13	13	.07160	R	13
ICE HARBOR	1969	2012	1	1	.07160	R	1
HILLS CREEK	1970	2012	13	13	.07160	R	13
ICE HARBOR	1987	2012	3	3	.07160		3
ICE HARBOR	1970	2012	46	46	.07160	R	46
ICE HARBOR	1970	2012	1	1	.07160	R	1
HILLS CREEK	1971	2012	13	13	.07160	R	13
ICE HARBOR	1971	2012	46	46	.07160	R	46
ICE HARBOR	1971	2012	1	1	.07160	R	1
HILLS CREEK	1972	2012	13	13	.07160	R	13
ICE HARBOR	1972	2012	46	46	.07160	R	46
ICE HARBOR	1972	2012	1	1	.07160	R	1
HILLS CREEK	1973	2012	13	13	.07160	R	13
ICE HARBOR	1973	2012	46	46	.07160	R	46
ICE HARBOR	1973	2012	1	1	.07160	R	1
HILLS CREEK	1974	2012	13	13	.07160	R	13
ICE HARBOR	1974	2012	46	46	.07160	R	46
ICE HARBOR	1974	2012	1	1	.07160	R	1
HILLS CREEK	1975	2012	13	13	.07160	R	13
ICE HARBOR	1975	2012	46	46	.07160	R	46
ICE HARBOR	1975	2012	1	1	.07160	R	1
HILLS CREEK	1976	2012	13	13	.07160	R	13
ICE HARBOR	1981	2012	1	1	.07160	R	1
ICE HARBOR	1981	2012	46	46	.07160	R	46
ICE HARBOR	1976	2012	46	46	.07160	R	46
ICE HARBOR	1976	2012	1	1	.07160	R	1
HILLS CREEK	1981	2012	13	13	.07160	R	13
HILLS CREEK	1977	2012	13	13	.07160	R	13
ICE HARBOR	1977	2012	46	46	.07160	R	46
ICE HARBOR	1977	2012	1	1	.07160	R	1
HILLS CREEK	1983	2012	13	13	.07160	R	13
HILLS CREEK	1978	2012	13	13	.07160	R	13
ICE HARBOR	1978	2012	46	46	.07160	R	46
ICE HARBOR	1978	2012	1	1	.07160	R	1
ICE HARBOR	1983	2012	46	46	.07160	R	46
HILLS CREEK	1979	2012	13	13	.07160	R	13
ICE HARBOR	1979	2012	46	46	.07160	R	46

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	ICE HARBOR	1979	2012	1	1	.07160	R	1
	ICE HARBOR	1983	2012	1	1	.07160	R	1
	HILLS CREEK	1980	2012	13	13	.07160	R	13
	ICE HARBOR	1980	2012	46	46	.07160	R	46
	ICE HARBOR	1980	2012	1	1	.07160	R	1
	LOWER MONUMENTAL	1970	2020	51,218	16,292	.07250		16,292
	LITTLE GOOSE	1970	2020	21,301	21,301	.07250		21,301
	JOHN DAY	1970	2020	23,656	23,656	.07250		2,982
	TOTAL							96,193
2013	BPA CONSERVATION	1998	2013	52,800	52,800	.05600		52,800
	FISH, WILDLIFE & ENVIRONMENTAL	1998	2013	60,000	60,000	.06100		60,000
	MINIDOKA	2003	2013	80	80	.05750		80
	BOISE	2003	2013	27	27	.05750		27
	BPA CONSERVATION	1993	2013	40,000	40,000	.06750		40,000
	JOHN DAY	1970	2020	23,656	20,674	.07250		20,674
	BONNEVILLE	1995	2020	22	22	.07250	R	22
	LOWER MONUMENTAL	1987	2020	3	3	.07250		3
	LOWER MONUMENTAL	1985	2020	8	8	.07250		8
	LOWER MONUMENTAL	1983	2020	214	214	.07250	R	214
	COUGAR	1980	2014	20	20	.07230	R	20
	COUGAR	1979	2014	20	20	.07230	R	20
	COUGAR	1978	2014	20	20	.07230	R	20
	COUGAR	1981	2014	20	20	.07230	R	20
	COUGAR	1977	2014	20	20	.07230	R	20
	COUGAR	1976	2014	20	20	.07230	R	20
	COUGAR	1975	2014	20	20	.07230	R	20
	COUGAR	1987	2014	45	45	.07230		45
	COUGAR	1974	2014	19	19	.07230	R	19
	COUGAR	1983	2014	20	20	.07230	R	20
	COUGAR	1973	2014	20	20	.07230	R	20
	COUGAR	1972	2014	20	20	.07230	R	20
	COUGAR	1985	2014	1	1	.07230		1
	COUGAR	1971	2014	20	20	.07230	R	20
	COUGAR	1982	2014	20	20	.07230	R	20
	COUGAR	1970	2014	20	20	.07230	R	20
	COUGAR	1969	2014	20	20	.07230	R	20
	COUGAR	1968	2014	20	20	.07230	R	20
	COUGAR	1967	2014	20	20	.07230	R	20

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COUGAR	1966	2014	20	20	.07230	R	20	
COUGAR	1965	2014	20	20	.07230	R	20	
COUGAR	1964	2014	9,042	9,042	.07230		9,042	
COUGAR	1986	2014	104	104	.07230		104	
LITTLE GOOSE	1979	2021	29	29	.07230	R	29	
LITTLE GOOSE	1978	2021	28	28	.07230	R	28	
LITTLE GOOSE	1977	2021	29	29	.07230	R	29	
LITTLE GOOSE	1976	2021	28	28	.07230	R	28	
LITTLE GOOSE	1975	2021	29	29	.07230	R	29	
LITTLE GOOSE	1981	2021	29	29	.07230	R	29	
LITTLE GOOSE	1974	2021	28	28	.07230	R	28	
LOWER MONUMENTAL	1996	2021	37	37	.07230		37	
LOWER MONUMENTAL	1996	2021	51	51	.07230		51	
LITTLE GOOSE	1973	2021	29	29	.07230	R	29	
LITTLE GOOSE	1972	2021	28	28	.07230	R	28	
LITTLE GOOSE	1980	2021	28	28	.07230	R	28	
LITTLE GOOSE	1971	2021	42,962	42,962	.07230		42,962	
JOHN DAY	1971	2021	34,974	34,974	.07230		34,403	
TOTAL							261,137	
2014	BPA PROGRAM	1999	2014	11,080	11,080	.05900		11,080
	MINIDOKA	2004	2014	80	80	.05730		80
	BOISE	2004	2014	27	27	.05730		27
	BPA CONSERVATION	1994	2014	50,000	50,000	.06750		50,000
	JOHN DAY	1971	2021	34,974	571	.07230		571
	LITTLE GOOSE	1983	2021	29	29	.07230	R	29
	DWORSHAK	1996	2021	26	26	.07230		26
	LITTLE GOOSE	1986	2021	239	239	.07230		239
	LITTLE GOOSE	1982	2021	28	28	.07230	R	28
	DWORSHAK	1996	2021	184	184	.07230		184
	LITTLE GOOSE	1985	2021	174	174	.07230		174
	LITTLE GOOSE	1987	2021	6	6	.07230		6
	LIBBY	1997	2022	432	432	.07230		432
	BONNEVILLE	1997	2022	122	122	.07230		122
	JOHN DAY	1997	2022	133	133	.07230		133
	ICE HARBOR	1997	2022	66	66	.07230		66
	JOHN DAY	1990	2022	37	37	.07210		37
	YAKIMA-CHANDLER	1986	2022	455	455	.07210		455
	JOHN DAY	1992	2022	19	19	.07210		19

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JOHN DAY	1989	2022	30	30	.07210		30
JOHN DAY	1972	2022	11,502	11,502	.07210		11,502
JOHN DAY	1986	2022	3,227	3,227	.07210		3,227
YAKIMA-CHANDLER	1961	2022	1	1	.07210	R	1
YAKIMA-CHANDLER	1960	2022	1	1	.07210	R	1
YAKIMA-CHANDLER	1959	2022	1	1	.07210	R	1
JOHN DAY	1987	2022	706	706	.07210		706
YAKIMA-CHANDLER	1956	2022	216	216	.07210		216
YAKIMA-CHANDLER	1956	2022	193	193	.07210		193
JOHN DAY	1985	2022	6,490	6,490	.07210		6,490
DWORSHAK	1978	2023	3	3	.07190	R	3
DWORSHAK	1978	2023	518	518	.07190	R	518
DWORSHAK	1981	2023	3	3	.07190	R	3
DWORSHAK	1977	2023	3	3	.07190	R	3
DWORSHAK	1977	2023	518	518	.07190	R	518
DWORSHAK	1985	2023	1,141	1,141	.07190		1,141
DWORSHAK	1976	2023	3	3	.07190	R	3
DWORSHAK	1976	2023	518	518	.07190	R	518
DWORSHAK	1983	2023	3	3	.07190	R	3
DWORSHAK	1979	2023	3	3	.07190	R	3
DWORSHAK	1975	2023	3	3	.07190	R	3
DWORSHAK	1975	2023	518	518	.07190	R	518
DWORSHAK	1983	2023	523	523	.07190	R	523
DWORSHAK	1974	2023	3	3	.07190	R	3
DWORSHAK	1974	2023	515	515	.07190	R	515
DWORSHAK	1979	2023	518	518	.07190	R	518
THE DALLES	1973	2023	21,983	21,983	.07190		21,983
DWORSHAK	1973	2023	803	803	.07190		803
DWORSHAK	1973	2023	132,996	132,996	.07190		132,996
DWORSHAK	1982	2023	518	518	.07190	R	518
DWORSHAK	1982	2023	3	3	.07190	R	3
DWORSHAK	1980	2023	3	3	.07190	R	3
DWORSHAK	1980	2023	518	518	.07190	R	518
DWORSHAK	1986	2023	197	197	.07190		197
DWORSHAK	1987	2023	5	5	.07190		5
THE DALLES	1974	2024	7,268	7,268	.07170		7,268
LOWER GRANITE	1977	2025	510	510	.07160	R	510
LOWER GRANITE	1978	2025	510	510	.07160	R	510

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
LOWER GRANITE	1976	2025	510	510	.07160	R	510
LOWER GRANITE	1975	2025	117,645	117,645	.07160		58,146
TOTAL							315,356
2015							
FISH, WILDLIFE & ENVIRONMENTAL	2000	2015	27,000	27,000	.07240		27,000
BPA CONSERVATION	1995	2015	85,000	85,000	.07500		85,000
BUREAU DIRECT FUND	1995	2015	35,000	35,000	.07500		35,000
LOWER GRANITE	1975	2025	117,645	59,499	.07160		59,499
LIBBY	1975	2025	48,138	48,138	.07160		48,138
COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	7,435	7,435	.07160		7,435
COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	36,690	36,690	.07160		36,690
LOWER GRANITE	1981	2025	510	510	.07160	R	510
LOWER GRANITE	1986	2025	215	215	.07160		215
LOWER GRANITE	1985	2025	328	328	.07160		328
LOWER GRANITE	1979	2025	510	510	.07160	R	510
LOWER GRANITE	1980	2025	510	510	.07160	R	510
LOWER GRANITE	1983	2025	510	510	.07160	R	510
LOWER GRANITE	1982	2025	510	510	.07160	R	510
LOWER GRANITE	1995	2025	96	96	.07160		96
LOWER GRANITE	1987	2025	8	8	.07160		8
LIBBY	1977	2026	1,465	1,465	.07150	R	1,465
LIBBY	1976	2026	153,432	153,432	.07150		24,994
TOTAL							328,418
2016							
FISH, WILDLIFE & ENVIRONMENTAL	2001	2016	27,000	27,000	.06920		27,000
BONNEVILLE	2011	2016	69,203	69,203	.05616	R	69,203
LIBBY	1976	2026	153,432	128,438	.07150		128,438
ICE HARBOR	1976	2026	228	228	.07150		228
ICE HARBOR	1976	2026	20,472	20,472	.07150		20,472
COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	8,037	8,037	.07150		8,037
COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	41,330	41,330	.07150		41,330
LIBBY	1981	2026	1,465	1,465	.07150	R	1,465
LIBBY	1978	2026	1,465	1,465	.07150	R	1,465
LIBBY	1989	2026	1	1	.07150		1
LIBBY	1983	2026	1,465	1,465	.07150	R	1,465
COLUMBIA BASIN	1996	2026	76	76	.07150		76
LIBBY	1980	2026	1,465	1,465	.07150	R	1,465
MCNARY	1996	2026	74	74	.07150		74
MCNARY	1996	2026	277	277	.07150		277

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
LIBBY	1985	2026	518	518	.07150		518
LIBBY	1986	2026	283	283	.07150		283
LIBBY	1982	2026	1,465	1,465	.07150	R	1,465
ICE HARBOR	1985	2026	21	21	.07150		21
LIBBY	1987	2026	2	2	.07150		2
LIBBY	1979	2026	1,465	1,465	.07150	R	1,465
LOST CREEK	1977	2027	13,413	13,413	.07150		3,066
TOTAL							307,816
2017 FISH, WILDLIFE & ENVIRONMENTAL	2002	2017	34,732	34,732	.06690		34,732
BPA CONSERVATION	1996	2017	40,000	40,000	.07200		40,000
ICE HARBOR	2012	2017	14,601	14,601	.05616	R	14,601
LOST CREEK	1977	2027	13,413	10,347	.07150		10,347
COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	7,964	7,964	.07150		7,964
COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	42,764	42,764	.07150		42,764
CHIEF JOSEPH	1977	2027	30,512	30,512	.07150		30,512
BONNEVILLE	1977	2027	15,670	15,670	.07150		15,670
LOST CREEK	1978	2027	58	58	.07150	R	58
LOST CREEK	1981	2027	60	60	.07150	R	60
LOST CREEK	1979	2027	60	60	.07150	R	60
LOST CREEK	1986	2027	6	6	.07150		6
LOST CREEK	1980	2027	60	60	.07150	R	60
LOST CREEK	1982	2027	60	60	.07150	R	60
LOST CREEK	1983	2027	60	60	.07150	R	60
LOST CREEK	1987	2027	4	4	.07150		4
LOST CREEK	1985	2027	12	12	.07150		12
CHIEF JOSEPH	1978	2028	75,669	75,669	.07150		75,669
LOWER GRANITE	1978	2028	40,611	40,611	.07150		40,611
LITTLE GOOSE	1978	2028	49,578	49,578	.07150		49,578
LITTLE GOOSE	1985	2028	47	47	.07150		47
COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	7,896	7,896	.07150		7,896
COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	42,399	42,399	.07150		42,399
CHIEF JOSEPH	1985	2029	16,372	16,372	.07150		16,372
CHIEF JOSEPH	1990	2029	4,505	4,505	.07150		4,505
LOWER MONUMENTAL	1979	2029	40,669	40,669	.07150		2,718
TOTAL							436,765

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
2018	FISH, WILDLIFE & ENVIRONMENTAL	2003	2018	38,317	38,317	.06500		38,317
	LOWER SNAKE F AND W	2013	2018	52	52	.05616	R	52
	MCNARY	2011	2018	31	31	.05678	R	31
	LOWER SNAKE F AND W	2011	2018	610	610	.05678	R	610
	LOWER MONUMENTAL	2011	2018	25	25	.05678	R	25
	LOOKOUT POINT-DEXTER	2011	2018	16	16	.05678	R	16
	LIBBY	2011	2018	74	74	.05678	R	74
	ICE HARBOR	2011	2018	27,608	27,608	.05678	R	27,608
	BONNEVILLE	2011	2018	29,448	29,448	.05678	R	29,448
	LOWER MONUMENTAL	1979	2029	40,669	37,951	.07150		37,951
	CHIEF JOSEPH	1987	2029	3,036	3,036	.07150		3,036
	CHIEF JOSEPH	1989	2029	2,227	2,227	.07150		2,227
	CHIEF JOSEPH	1988	2029	2,722	2,722	.07150		2,722
	LIBBY	1994	2029	152	152	.07150		152
	LOWER GRANITE	1994	2029	1,551	1,551	.07150		1,551
	CHIEF JOSEPH	1986	2029	5,363	5,363	.07150		5,363
	COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	15,666	15,666	.07150		15,666
	COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	84,118	84,118	.07150		84,118
	CHIEF JOSEPH	1979	2029	60,079	60,079	.07150		60,079
	LOWER MONUMENTAL	1985	2029	256	256	.07150		256
	HUNGRY HORSE	1995	2030	1,195	1,195	.07150	R	1,195
	HUNGRY HORSE	1995	2030	536	536	.07150	R	536
	LIBBY	1995	2030	15	15	.07150	R	15
	LIBBY	1995	2030	41	41	.07150		41
	LIBBY	1995	2030	94	94	.07150	R	94
	DWORSHAK	1995	2030	218	218	.07150		218
	COLUMBIA BASIN	1995	2030	25	25	.07150		25
	CHIEF JOSEPH	1996	2031	27	27	.07150	R	27
	LOST CREEK	1996	2031	31	31	.07150		31
	COLUMBIA BASIN	1996	2031	251	251	.07150		251
	LOWER GRANITE	1996	2031	206	206	.07150		206
	BONNEVILLE - 2ND POWER HOUSE	1981	2031	455	455	.07150		455
	DWORSHAK	1996	2031	6	6	.07150		6
	COLUMBIA BASIN	1996	2031	109	109	.07150		109
	ICE HARBOR	1996	2031	78	78	.07150		78
	DWORSHAK	1996	2031	203	203	.07150		203
	BONNEVILLE - 2ND POWER HOUSE	1981	2031	40,964	40,964	.07150		40,964
	BONNEVILLE	1996	2031	22	22	.07150		22
	BONNEVILLE - 2ND POWER HOUSE	1982	2032	203,535	203,535	.07150		203,535

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BONNEVILLE - 2ND POWER HOUSE	1982	2032	2,264	2,264	.07150		2,264
BONNEVILLE	1997	2032	518	518	.07150		518
CHIEF JOSEPH	1997	2032	166	166	.07150		166
MCNARY	1997	2032	30	30	.07150		30
BONNEVILLE - 2ND POWER HOUSE	1985	2033	9,138	9,138	.07150		9,138
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	41,772	41,772	.07150		41,772
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	13,192	13,192	.07150		13,192
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	107	107	.07150		107
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	2,060	2,060	.07150		2,060
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	3,160	3,160	.07150		3,160
COLUMBIA BASIN - 3RD PWR HOUSE	1989	2033	10,902	10,902	.07150		10,902
COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	13,003	13,003	.07150		13,003
COLUMBIA BASIN - 3RD PWR HOUSE	1990	2033	6,383	6,383	.07150		3,197
TOTAL							656,822
2019 THE DALLES	2014	2019	47	47	.05616	R	47
FISH, WILDLIFE & ENVIRONMENTAL	2004	2019	35,825	35,825	.06480		35,825
BPA CONSERVATION	1999	2019	6,000	6,000	.07470		6,000
MCNARY	2011	2019	64	64	.05694	R	64
JOHN DAY	2012	2019	29	29	.05678	R	29
LOOKOUT POINT-DEXTER	2011	2019	6	6	.05694	R	6
LITTLE GOOSE	2011	2019	43	43	.05694	R	43
COLUMBIA BASIN - 3RD PWR HOUSE	1990	2033	6,383	3,186	.07150		3,186
BONNEVILLE - 2ND POWER HOUSE	1989	2033	1,232	1,232	.07150		1,232
COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	2,294	2,294	.07150		2,294
BONNEVILLE - 2ND POWER HOUSE	1987	2033	2,801	2,801	.07150		2,801
COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	4,351	4,351	.07150		4,351
COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	14,439	14,439	.07150		14,439
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	16,965	16,965	.07150		16,965
COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	1,730	1,730	.07150		1,730
BONNEVILLE - 2ND POWER HOUSE	1988	2033	1,271	1,271	.07150		1,271
BONNEVILLE - 2ND POWER HOUSE	1983	2033	62,409	62,409	.07150		62,409
BONNEVILLE - 2ND POWER HOUSE	1983	2033	694	694	.07150		694
COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	712	712	.07150		712
COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	1,851	1,851	.07150		1,851
COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	15,538	15,538	.07150		15,538
BONNEVILLE - 2ND POWER HOUSE	1986	2033	30,578	30,578	.07150		30,578
BONNEVILLE - 2ND POWER HOUSE	1990	2033	1,588	1,588	.07150		1,588
LOWER SNAKE F AND W	1983	2033	9,967	9,967	.07150		9,967

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+							
LOWER SNAKE F AND W	1985	2035	47,921	47,921	.07150		47,921
JOHN DAY	1995	2035	22	22	.07150		22
JOHN DAY	1995	2035	52	52	.07150		52
JOHN DAY	1995	2035	121	121	.07150		121
LOWER MONUMENTAL	1996	2036	264	264	.07150	R	264
LOWER SNAKE F AND W	1987	2037	72,536	72,536	.07150		72,536
LOWER SNAKE F AND W	1988	2038	805	805	.07150		805
LIBBY	1988	2038	14,781	14,781	.07150		14,781
LITTLE GOOSE	1995	2040	17	17	.07150		17
LITTLE GOOSE	1995	2040	450	450	.07150		450
LITTLE GOOSE	1995	2040	733	733	.07150	R	733
LOWER SNAKE F AND W	1990	2040	1,557	1,557	.07150		1,557
LOWER SNAKE F AND W	1991	2041	4,411	4,411	.07150		4,411
ICE HARBOR	1996	2041	371	371	.07150	R	371
LOWER SNAKE F AND W	1993	2043	71,632	71,632	.07150		53,151
TOTAL							410,812
2020							
BPA CONSERVATION	2000	2020	32,555	32,555	.07400		32,555
LITTLE GOOSE	2013	2020	25	25	.05678	R	25
COUGAR	2012	2020	4	4	.05694	R	4
COUGAR	2013	2020	2	2	.05678	R	2
LOWER SNAKE F AND W	1993	2043	71,632	18,481	.07150		18,481
BONNEVILLE - 2ND POWER HOUSE	1994	2044	5,700	5,700	.07150		5,700
CHIEF JOSEPH	1994	2044	4,017	4,017	.07150		4,017
COLUMBIA BASIN - 3RD PWR HOUSE	1994	2044	12,631	12,631	.07150		12,631
LOWER SNAKE F AND W	1994	2044	4,619	4,619	.07150		4,619
COLUMBIA BASIN	1995	2045	2,453	2,453	.07150		2,453
BONNEVILLE	1995	2045	410	410	.07150	R	410
CHIEF JOSEPH	1995	2045	712	712	.07150	R	712
JOHN DAY	1995	2045	37	37	.07150		37
HUNGRY HORSE	1995	2045	6,190	6,190	.07150		6,190
COLUMBIA RIVER FISH MITIGATION	1995	2045	703	703	.07150		703
COLUMBIA BASIN	1995	2045	292	292	.07150	R	292
JOHN DAY	1995	2045	608	608	.07150		608
JOHN DAY	1995	2045	7,653	7,653	.07150	R	7,653
BONNEVILLE	1995	2045	440	440	.07150	R	440
DETROIT-BIG CLIFF	1995	2045	38	38	.07150		38
CHIEF JOSEPH	1995	2045	784	784	.07150		784
LOOKOUT POINT-DEXTER	1995	2045	33	33	.07150		33

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LOOKOUT POINT-DEXTER	1995	2045	39	39	.07150		39
ALBENI FALLS	1995	2045	531	531	.07150		531
LOST CREEK	1995	2045	94	94	.07150		94
CHIEF JOSEPH	1995	2045	562	562	.07150		562
DWORSHAK	1995	2045	1,162	1,162	.07150		1,162
LOWER MONUMENTAL	1995	2045	41	41	.07150		41
LOWER MONUMENTAL	1995	2045	99	99	.07150		99
LOWER MONUMENTAL	1995	2045	624	624	.07150		624
LOWER MONUMENTAL	1995	2045	1,122	1,122	.07150	R	1,122
LOWER SNAKE F AND W	1995	2045	2,162	2,162	.07150		2,162
MCNARY	1995	2045	16	16	.07150		16
ALBENI FALLS	1995	2045	443	443	.07150		443
BONNEVILLE	1995	2045	243	243	.07150		243
ALBENI FALLS	1995	2045	1,105	1,105	.07150		1,105
BONNEVILLE - 2ND POWER HOUSE	1995	2045	3,791	3,791	.07150		3,791
CHIEF JOSEPH	1995	2045	147	147	.07150		147
LITTLE GOOSE	1996	2046	3,909	3,909	.07150	R	3,909
BONNEVILLE	1996	2046	1,322	1,322	.07150	R	1,322
COLUMBIA BASIN	1996	2046	368	368	.07150		368
DWORSHAK	1996	2046	3	3	.07150		3
CHIEF JOSEPH	1996	2046	3	3	.07150	R	3
COLUMBIA RIVER FISH MITIGATION	1996	2046	42,357	42,357	.07150		42,357
LOWER SNAKE F AND W	1996	2046	10,185	10,185	.07150		10,185
BONNEVILLE	1996	2046	751	751	.07150		751
DWORSHAK	1996	2046	4	4	.07150		4
CHIEF JOSEPH	1996	2046	729	729	.07150		729
MCNARY	1996	2046	619	619	.07150		619
CHIEF JOSEPH	1996	2046	4	4	.07150	R	4
LOST CREEK	1996	2046	24	24	.07150		24
DWORSHAK	1996	2046	46	46	.07150		46
LITTLE GOOSE	1996	2046	10	10	.07150		10
THE DALLES	1996	2046	1,991	1,991	.07150		1,991
HUNGRY HORSE	1996	2046	15	15	.07150		15
GREEN PETER-FOSTER	1996	2046	26	26	.07150		26
BONNEVILLE	1996	2046	223	223	.07150		223
HILLS CREEK	1996	2046	28	28	.07150		28
CHIEF JOSEPH	1996	2046	355	355	.07150		355
LOWER MONUMENTAL	1996	2046	10	10	.07150		10
LITTLE GOOSE	1996	2046	10	10	.07150	R	10

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LOWER GRANITE	1996	2046	625	625	.07150		625
LITTLE GOOSE	1996	2046	211	211	.07150		211
BOISE	1996	2046	450	450	.07150		450
BONNEVILLE	1996	2046	142	142	.07150		142
BOISE	1996	2046	656	656	.07150		656
LITTLE GOOSE	1996	2046	241	241	.07150		241
BONNEVILLE - 2ND POWER HOUSE	1996	2046	376	376	.07150		376
BONNEVILLE	1996	2046	18	18	.07150		18
LITTLE GOOSE	1996	2046	520	520	.07150	R	520
BONNEVILLE	1996	2046	18	18	.07150		18
LOWER GRANITE	1996	2046	9	9	.07150	R	9
HUNGRY HORSE	1996	2046	2	2	.07150		2
BONNEVILLE	1996	2046	80	80	.07150		80
COLUMBIA BASIN	1996	2046	426	426	.07150		426
BONNEVILLE	1996	2046	109	109	.07150		109
DWORSHAK	1997	2047	7,588	7,588	.07150		7,588
LIBBY	1997	2047	660	660	.07150		660
LITTLE GOOSE	1997	2047	1	1	.07150		1
COUGAR	1997	2047	26	26	.07150		26
ALBENI FALLS	1997	2047	477	477	.07150		477
HUNGRY HORSE	1997	2047	216	216	.07150		216
LOWER GRANITE	1997	2047	677	677	.07150		677
BOISE	1997	2047	2,284	2,284	.07150		2,284
LOWER SNAKE F AND W	1997	2047	2,173	2,173	.07150		2,173
BONNEVILLE	1997	2047	161	161	.07150		161
MINIDOKA	1997	2047	51,558	51,558	.07150		51,558
CHIEF JOSEPH	1997	2047	657	657	.07150		657
COLUMBIA BASIN	1997	2047	3,393	3,393	.07150		3,393
JOHN DAY	1997	2047	179	179	.07150		179
ICE HARBOR	1997	2047	67	67	.07150		67
BPA PROGRAM	2001	2046	7,600	7,600	.07290		7,600
BUREAU DIRECT FUND	2001	2046	76,100	76,100	.07290		76,100
BUREAU DIRECT FUND	2002	2047	89,855	89,855	.07080		89,855
BPA PROGRAM	2002	2047	2,100	2,100	.07080		2,100
BPA CONSERVATION	2001	2021	1,000	1,000	.07110		1,000
BPA PROGRAM	2004	2049	1,400	1,400	.06900		1,400
BUREAU DIRECT FUND	2004	2049	61,700	61,700	.06900		54,606
TOTAL							480,221

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2021	DWORSHAK	2013	2021	40	40	.05694	R	40
	BONNEVILLE	2013	2021	4,295	4,295	.05694	R	4,295
	LITTLE GOOSE	2011	2021	12	12	.05726	R	12
	BONNEVILLE	2016	2021	69,203	69,203	.05616	R	69,203
	BONNEVILLE	2011	2021	120	120	.05726	R	120
	BUREAU DIRECT FUND	2004	2049	61,700	7,094	.06900		7,094
	BPA PROGRAM	2003	2048	1,400	1,400	.06890		1,400
	BUREAU DIRECT FUND	2003	2048	86,650	86,650	.06890		86,650
	BONNEVILLE	2001	2051	17,820	17,820	.06390		17,820
	COLUMBIA BASIN	2001	2051	3,557	3,557	.06390		3,557
	COLUMBIA BASIN	2001	2051	1,163	1,163	.06390		1,163
	THE DALLES	2001	2051	12,528	12,528	.06390		12,528
	COLUMBIA RIVER FISH MITIGATION	2001	2051	457,474	457,474	.06180		334,686
	TOTAL							538,568
2022	THE DALLES	2015	2022	50	50	.05678	R	50
	ICE HARBOR	2012	2022	14,233	14,233	.05726	R	14,233
	ICE HARBOR	2017	2022	14,601	14,601	.05616	R	14,601
	DWORSHAK	2015	2022	18	18	.05678	R	18
	COLUMBIA RIVER FISH MITIGATION	2001	2051	457,474	122,788	.06180		122,788
	BONNEVILLE	2002	2052	8,910	8,910	.06180		8,910
	COLUMBIA BASIN	2002	2052	1,162	1,162	.06180		1,162
	COLUMBIA RIVER FISH MITIGATION	2002	2052	111,042	111,042	.06180		111,042
	LOWER SNAKE F AND W	2002	2052	794	794	.06180		794
	THE DALLES	2002	2052	12,528	12,528	.06180		12,528
	LOWER MONUMENTAL	2000	2050	521	521	.06125		521
	MCNARY	2000	2050	937	937	.06125		937
	COLUMBIA BASIN	2000	2050	1,185	1,185	.06125		1,185
	BONNEVILLE	2000	2050	23,476	23,476	.06125		23,476
	COLUMBIA BASIN	2000	2050	817	817	.06125		817
	COLUMBIA RIVER FISH MITIGATION	2000	2050	4,541	4,541	.06125		4,541
	ICE HARBOR	2000	2050	696	696	.06125		696
	JOHN DAY	2000	2050	17,643	17,643	.06125		17,643
	LOWER GRANITE	2000	2050	1,261	1,261	.06125		1,261
	COLUMBIA BASIN	2002	2027	507	507	.06120		507
	COLUMBIA BASIN	2004	2054	1,162	1,162	.06000		1,162
	COLUMBIA RIVER FISH MITIGATION	2004	2054	213,203	213,203	.06000		197,829
	TOTAL							536,701

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2023	LOWER SNAKE F AND W	2013	2023	1,110	1,110	.05726	R	1,110
	LOWER SNAKE F AND W	2015	2023	117	117	.05694	R	117
	GREEN PETER-FOSTER	2015	2023	15	15	.05694	R	15
	LOWER GRANITE	2011	2023	22	22	.05753	R	22
	LOWER SNAKE F AND W	2018	2023	52	52	.05616	R	52
	GREEN PETER-FOSTER	2016	2023	18	18	.05678	R	18
	LOWER GRANITE	2015	2023	34	34	.05694	R	34
	THE DALLES	2015	2023	76	76	.05694	R	76
	DWORSHAK	2013	2023	196	196	.05726	R	196
	COLUMBIA RIVER FISH MITIGATION	2004	2054	213,203	15,374	.06000		15,374
	MCNARY	2004	2054	7,000	7,000	.06000		7,000
	THE DALLES	2004	2054	12,528	12,528	.06000		12,528
	LOWER SNAKE F AND W	2013	2043	2,369	2,369	.05996	R	2,369
	HUNGRY HORSE	2013	2043	508	508	.05996	R	508
	DETROIT-BIG CLIFF	2014	2044	664	664	.05996	R	664
	BONNEVILLE	2011	2046	78,718	78,718	.05996	R	78,718
	ICE HARBOR	2011	2046	6,910	6,910	.05996	R	6,910
	LIBBY	2011	2046	11,218	11,218	.05996	R	11,218
	YAKIMA-CHANDLER	2016	2046	65	65	.05996	R	65
	BONNEVILLE	2012	2047	16	16	.05996	R	16
	MINIDOKA	2017	2047	94	94	.05996	R	94
	LOST CREEK	2012	2047	18	18	.05996	R	18
	BOISE	2017	2047	70	70	.05996	R	70
	COLUMBIA BASIN	2013	2048	58,797	58,797	.05996	R	58,797
	LOWER GRANITE	2013	2048	10,666	10,666	.05996	R	10,666
	LITTLE GOOSE	2013	2048	10,492	10,492	.05996	R	10,492
	YAKIMA-ROZA	2018	2048	5	5	.05996	R	5
	CHIEF JOSEPH	2013	2048	74,609	74,609	.05996	R	74,609
	LOWER MONUMENTAL	2014	2049	10,135	10,135	.05996	R	10,135
	LITTLE GOOSE	2011	2051	11,283	11,283	.05996	R	11,283
	COLUMBIA BASIN	2017	2052	42,469	42,469	.05996	R	42,469
	BONNEVILLE	2017	2052	75,168	75,168	.05996	R	75,168
	ICE HARBOR	2022	2052	387	387	.05996	R	387
	HILLS CREEK	2022	2052	369	369	.05996	R	369
	LOWER SNAKE F AND W	2018	2053	1,218	1,218	.05996	R	1,218
	DWORSHAK	2013	2053	8,244	8,244	.05996	R	8,244
	LIBBY	2020	2055	8,362	8,362	.05996	R	8,362
	LOWER GRANITE	2015	2055	7,553	7,553	.05996	R	7,553
	ICE HARBOR	2016	2056	4,637	4,637	.05996	R	4,637

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LIBBY	2016	2056	16,758	16,758	.05996	R	16,758
LOST CREEK	2017	2057	1,659	1,659	.05996	R	1,659
GREEN PETER-FOSTER	2012	2057	2,124	2,124	.05996	R	2,124
MINIDOKA	2022	2057	3,303	3,303	.05996	R	3,303
LITTLE GOOSE	2018	2058	9,409	9,409	.05996	R	9,409
GREEN PETER-FOSTER	2013	2058	1,826	1,826	.05996	R	1,826
LOWER GRANITE	2018	2058	8,283	8,283	.05996	R	8,283
HUNGRY HORSE	2023	2058	3,583	3,583	.05996	R	3,583
CHIEF JOSEPH	2018	2058	47,676	47,676	.05996	R	47,676
COLUMBIA BASIN	2018	2058	205,282	205,282	.05996	R	38,824
TOTAL							595,031
2024 THE DALLES	2019	2024	47	47	.05616	R	47
DETROIT-BIG CLIFF	2014	2024	34	34	.05726	R	34
LOWER GRANITE	2017	2024	26	26	.05678	R	26
DETROIT-BIG CLIFF	2017	2024	2	2	.05678	R	2
COLUMBIA BASIN	2018	2058	205,282	166,458	.05996	R	166,458
DETROIT-BIG CLIFF	2024	2059	2,677	2,677	.05996	R	2,677
LOWER MONUMENTAL	2019	2059	7,358	7,358	.05996	R	7,358
JOHN DAY	2015	2060	30,858	30,858	.05996	R	30,858
BONNEVILLE	2021	2061	69,402	69,402	.05996	R	69,402
BONNEVILLE	2022	2062	67,184	67,184	.05996	R	67,184
BOISE	2017	2062	818	818	.05996	R	818
ICE HARBOR	2012	2062	4,209	4,209	.05996	R	4,209
LOWER SNAKE F AND W	2023	2063	7,683	7,683	.05996	R	7,683
THE DALLES	2018	2063	6,223	6,223	.05996	R	6,223
ICE HARBOR	2021	2066	29	29	.05996	R	29
BONNEVILLE	2022	2067	62,086	62,086	.05996	R	62,086
MINIDOKA	2017	2067	5,134	5,134	.05996	R	5,134
LOST CREEK	2022	2067	1,294	1,294	.05996	R	1,294
COLUMBIA BASIN	2023	2068	64,033	64,033	.05996	R	64,033
LITTLE GOOSE	2023	2068	135	135	.05996	R	135
LOWER MONUMENTAL	2024	2069	120	120	.05996	R	120
LOWER MONUMENTAL	2019	2069	4,406	4,406	.05996	R	4,406
LITTLE GOOSE	2021	2071	3,815	3,815	.05996	R	3,815
DWORSHAK	2023	2073	1,869	1,869	.05996	R	1,869
LOWER SNAKE F AND W	2001	2051	7,649	7,649	.05990		7,649
BONNEVILLE	2003	2053	22,216	22,216	.05990		22,216
COLUMBIA BASIN	2003	2053	1,161	1,161	.05990		1,161

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
COLUMBIA RIVER FISH MITIGATION	2003	2053	44,682	44,682	.05990		44,682	
THE DALLES	2003	2053	12,528	12,528	.05990		12,528	
COLUMBIA BASIN	2003	2028	507	507	.05930		507	
COLUMBIA BASIN	2004	2029	507	507	.05930		507	
HILLS CREEK	2012	2037	1	1	.05928	R	1	
ICE HARBOR	2012	2037	1,694	1,694	.05928	R	1,694	
COUGAR	2014	2039	144	144	.05928	R	144	
BONNEVILLE	2016	2041	2,777	2,777	.05928	R	2,777	
GREEN PETER-FOSTER	2017	2042	144	144	.05928	R	144	
MINIDOKA	2017	2042	2,106	2,106	.05928	R	2,106	
GREEN PETER-FOSTER	2018	2043	74	74	.05928	R	74	
LOWER MONUMENTAL	2019	2044	913	913	.05928	R	913	
JOHN DAY	2020	2045	694	694	.05928	R	694	
LITTLE GOOSE	2021	2046	1,045	1,045	.05928	R	1,045	
COLUMBIA BASIN	2022	2047	48,386	48,386	.05928	R	25,574	
TOTAL							630,316	
2025	BONNEVILLE	2013	2025	156	156	.05753	R	156
	ALBENI FALLS	2015	2025	1	1	.05726	R	1
	LOWER GRANITE	2015	2025	953	953	.05726	R	953
	BONNEVILLE	2018	2025	29,448	29,448	.05678	R	29,448
	LOWER MONUMENTAL	2017	2025	48	48	.05694	R	48
	ICE HARBOR	2018	2025	27,608	27,608	.05678	R	27,608
	LIBBY	2018	2025	74	74	.05678	R	74
	LOOKOUT POINT-DEXTER	2015	2025	117	117	.05726	R	117
	MCNARY	2018	2025	31	31	.05678	R	31
	LOST CREEK	2013	2025	5	5	.05753	R	5
	LOST CREEK	2017	2025	1	1	.05694	R	1
	MCNARY	2015	2025	62,577	62,577	.05726	R	62,577
	LOWER SNAKE F AND W	2018	2025	610	610	.05678	R	610
	LOOKOUT POINT-DEXTER	2018	2025	16	16	.05678	R	16
	LOWER MONUMENTAL	2018	2025	25	25	.05678	R	25
	ALBENI FALLS	2025	2060	9,182	9,182	.05996	R	9,182
	MCNARY	2025	2060	67,620	67,620	.05996	R	67,620
	LIBBY	2025	2065	8,428	8,428	.05996	R	8,428
	LOWER GRANITE	2025	2075	1,693	1,693	.05996	R	1,693
	COLUMBIA BASIN	2022	2047	48,386	22,812	.05928	R	22,812
	DWORSHAK	2023	2048	7,890	7,890	.05928	R	7,890
	LOWER GRANITE	2025	2050	222	222	.05928	R	222

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
LITTLE GOOSE	2011	2031	32,270	32,270	.05861	R	32,270
DWORSHAK	2013	2033	3,654	3,654	.05861	R	3,654
HUNGRY HORSE	2013	2033	756	756	.05861	R	756
THE DALLES	2013	2033	242	242	.05861	R	242
DETROIT-BIG CLIFF	2014	2034	4,908	4,908	.05861	R	4,908
DETROIT-BIG CLIFF	2014	2034	318	318	.05861	R	318
LOWER GRANITE	2015	2035	38,282	38,282	.05861	R	38,282
LOOKOUT POINT-DEXTER	2015	2035	472	472	.05861	R	472
ALBENI FALLS	2015	2035	1,000	1,000	.05861	R	1,000
MCNARY	2015	2035	1,323	1,323	.05861	R	1,323
LOOKOUT POINT-DEXTER	2015	2035	81	81	.05861	R	81
ICE HARBOR	2016	2036	209	209	.05861	R	209
LIBBY	2016	2036	713	713	.05861	R	713
YAKIMA-CHANDLER	2016	2036	94	94	.05861	R	94
MINIDOKA	2017	2037	298	298	.05861	R	298
MINIDOKA	2017	2037	101	101	.05861	R	101
LOST CREEK	2017	2037	40	40	.05861	R	40
CHIEF JOSEPH	2017	2037	2,335	2,335	.05861	R	2,335
COLUMBIA BASIN	2018	2038	5,885	5,885	.05861	R	5,885
LOWER GRANITE	2018	2038	335	335	.05861	R	335
CHIEF JOSEPH	2018	2038	758	758	.05861	R	758
LITTLE GOOSE	2018	2038	207	207	.05861	R	207
YAKIMA-ROZA	2018	2038	9	9	.05861	R	9
LOWER MONUMENTAL	2019	2039	331	331	.05861	R	331
THE DALLES	2019	2039	1,336	1,336	.05861	R	1,336
BONNEVILLE	2021	2041	665	665	.05861	R	665
ICE HARBOR	2022	2042	1,553	1,553	.05861	R	1,553
LOWER SNAKE F AND W	2023	2043	5,579	5,579	.05861	R	5,579
COUGAR	2024	2044	76	76	.05861	R	76
BONNEVILLE	2012	2027	1,189	1,189	.05794	R	1,189
HUNGRY HORSE	2013	2028	503	503	.05794	R	503
LOWER SNAKE F AND W	2013	2028	1,200	1,200	.05794	R	1,200
LOWER MONUMENTAL	2014	2029	31,534	31,534	.05794	R	31,534
DETROIT-BIG CLIFF	2014	2029	25,154	25,154	.05794	R	25,154
DETROIT-BIG CLIFF	2014	2029	18	18	.05794	R	18
JOHN DAY	2015	2030	169	169	.05794	R	169
JOHN DAY	2015	2030	2,130	2,130	.05794	R	2,130
LIBBY	2015	2030	222	222	.05794	R	222
MCNARY	2015	2030	22,700	22,700	.05794	R	22,700

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
ALBENI FALLS	2015	2030	63	63	.05794	R	63
LOOKOUT POINT-DEXTER	2015	2030	465	465	.05794	R	465
BONNEVILLE	2016	2031	2,760	2,760	.05794	R	2,760
YAKIMA-CHANDLER	2016	2031	27	27	.05794	R	27
LITTLE GOOSE	2016	2031	32,761	32,761	.05794	R	32,761
CHIEF JOSEPH	2017	2032	1,528	1,528	.05794	R	1,528
BOISE	2017	2032	13	13	.05794	R	13
MINIDOKA	2017	2032	136	136	.05794	R	136
THE DALLES	2018	2033	2,096	2,096	.05794	R	2,096
YAKIMA-ROZA	2018	2033	2	2	.05794	R	2
DWORSHAK	2018	2033	3,131	3,131	.05794	R	3,131
THE DALLES	2019	2034	1,358	1,358	.05794	R	1,358
LOWER GRANITE	2020	2035	18,650	18,650	.05794	R	18,650
LIBBY	2021	2036	2,029	2,029	.05794	R	2,029
COLUMBIA BASIN	2022	2037	906	906	.05794	R	906
MINIDOKA	2022	2037	92	92	.05794	R	92
COLUMBIA BASIN	2023	2038	1,225	1,225	.05794	R	1,225
LOWER GRANITE	2023	2038	335	335	.05794	R	335
CHIEF JOSEPH	2023	2038	216	216	.05794	R	216
COUGAR	2024	2039	47	47	.05794	R	47
DETROIT-BIG CLIFF	2014	2026	26	26	.05753	R	26
ALBENI FALLS	2015	2027	141	141	.05753	R	141
MCNARY	2015	2027	30,675	30,675	.05753	R	30,675
LOOKOUT POINT-DEXTER	2015	2027	42	42	.05753	R	42
LOWER MONUMENTAL	2017	2029	2,454	2,454	.05753	R	2,454
JOHN DAY	2018	2030	47	47	.05753	R	47
LOWER SNAKE F AND W	2019	2031	557	557	.05753	R	557
LITTLE GOOSE	2019	2031	2,454	2,454	.05753	R	2,454
THE DALLES	2019	2031	10	10	.05753	R	10
THE DALLES	2021	2033	1,853	1,853	.05753	R	1,853
DWORSHAK	2021	2033	58	58	.05753	R	58
ICE HARBOR	2022	2034	5,153	5,153	.05753	R	5,153
LOWER GRANITE	2023	2035	22	22	.05753	R	22
LOST CREEK	2025	2037	5	5	.05753	R	5
BONNEVILLE	2025	2037	156	156	.05753	R	156
LIBBY	2016	2026	74	74	.05726	R	74
YAKIMA-CHANDLER	2016	2026	64	64	.05726	R	64
CHIEF JOSEPH	2017	2027	44	44	.05726	R	44
MINIDOKA	2017	2027	17	17	.05726	R	17

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
GREEN PETER-FOSTER	2017	2027	23	23	.05726	R	23	
LITTLE GOOSE	2018	2028	1,113	1,113	.05726	R	1,113	
LOWER MONUMENTAL	2019	2029	12	12	.05726	R	12	
THE DALLES	2019	2029	1	1	.05726	R	1	
LITTLE GOOSE	2021	2031	12	12	.05726	R	12	
BONNEVILLE	2021	2031	120	120	.05726	R	120	
ICE HARBOR	2022	2032	14,233	14,233	.05726	R	14,233	
LOWER SNAKE F AND W	2023	2033	1,110	1,110	.05726	R	1,110	
DWORSHAK	2023	2033	196	196	.05726	R	196	
DETROIT-BIG CLIFF	2024	2034	34	34	.05726	R	34	
LOOKOUT POINT-DEXTER	2025	2035	117	117	.05726	R	117	
ALBENI FALLS	2025	2035	1	1	.05726	R	1	
MCNARY	2025	2035	62,577	62,577	.05726	R	62,577	
LOWER GRANITE	2025	2035	953	953	.05726	R	953	
ICE HARBOR	2018	2026	7,485	7,485	.05694	R	7,485	
DETROIT-BIG CLIFF	2018	2026	5	5	.05694	R	5	
JOHN DAY	2018	2026	5	5	.05694	R	5	
LITTLE GOOSE	2019	2027	43	43	.05694	R	43	
MCNARY	2019	2027	64	64	.05694	R	64	
LOOKOUT POINT-DEXTER	2019	2027	6	6	.05694	R	6	
COUGAR	2020	2028	4	4	.05694	R	4	
BONNEVILLE	2021	2029	4,295	4,295	.05694	R	4,295	
DWORSHAK	2021	2029	40	40	.05694	R	40	
GREEN PETER-FOSTER	2023	2031	15	15	.05694	R	15	
LOWER GRANITE	2023	2031	34	34	.05694	R	34	
LOWER SNAKE F AND W	2023	2031	117	117	.05694	R	29	
TOTAL							632,385	
2026	BONNEVILLE	2021	2026	69,203	69,203	.05616	R	69,203
	JOHN DAY	2019	2026	29	29	.05678	R	29
	YAKIMA-CHANDLER	2026	2061	513	513	.05996	R	513
	ICE HARBOR	2026	2076	1,331	1,331	.05996	R	1,331
	LIBBY	2026	2076	3,574	3,574	.05996	R	3,574
	LIBBY	2026	2051	2,814	2,814	.05928	R	2,814
	ICE HARBOR	2026	2051	45	45	.05928	R	45
	DETROIT-BIG CLIFF	2026	2038	26	26	.05753	R	26
	LIBBY	2026	2036	74	74	.05726	R	74
	YAKIMA-CHANDLER	2026	2036	64	64	.05726	R	64
	LOWER SNAKE F AND W	2023	2031	117	88	.05694	R	88

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
THE DALLES	2023	2031	76	76	.05694	R	76
LOWER MONUMENTAL	2025	2033	48	48	.05694	R	48
LOST CREEK	2025	2033	1	1	.05694	R	1
JOHN DAY	2026	2034	5	5	.05694	R	5
ICE HARBOR	2026	2034	7,485	7,485	.05694	R	7,485
DETROIT-BIG CLIFF	2026	2034	5	5	.05694	R	5
LITTLE GOOSE	2020	2027	25	25	.05678	R	25
COUGAR	2020	2027	2	2	.05678	R	2
DWORSHAK	2022	2029	18	18	.05678	R	18
THE DALLES	2022	2029	50	50	.05678	R	50
GREEN PETER-FOSTER	2023	2030	18	18	.05678	R	18
LOWER GRANITE	2024	2031	26	26	.05678	R	26
DETROIT-BIG CLIFF	2024	2031	2	2	.05678	R	2
BONNEVILLE	2025	2032	29,448	29,448	.05678	R	29,448
ICE HARBOR	2025	2032	27,608	27,608	.05678	R	27,608
LOWER MONUMENTAL	2025	2032	25	25	.05678	R	25
LOOKOUT POINT-DEXTER	2025	2032	16	16	.05678	R	16
LOWER SNAKE F AND W	2025	2032	610	610	.05678	R	610
MCNARY	2025	2032	31	31	.05678	R	31
LIBBY	2025	2032	74	74	.05678	R	74
JOHN DAY	2026	2033	29	29	.05678	R	29
ICE HARBOR	2022	2027	14,601	14,601	.05616	R	14,601
LOWER SNAKE F AND W	2023	2028	52	52	.05616	R	52
THE DALLES	2024	2029	47	47	.05616	R	47
BONNEVILLE	2026	2031	69,203	69,203	.05616	R	69,203
BONNEVILLE	1999	2044	29,984	29,984	.05325		29,984
COLUMBIA RIVER FISH MITIGATION	1999	2049	20,689	20,689	.05325		20,689

TOTAL							277,939
2027							
GREEN PETER-FOSTER	2027	2057	476	476	.05996	R	476
MINIDOKA	2027	2062	794	794	.05996	R	794
CHIEF JOSEPH	2027	2062	61,476	61,476	.05996	R	61,476
COLUMBIA BASIN	2027	2067	46,739	46,739	.05996	R	46,739
BONNEVILLE	2027	2072	1,028	1,028	.05996	R	1,028
LOST CREEK	2027	2077	621	621	.05996	R	621
BONNEVILLE	2027	2077	319	319	.05996	R	319
BOISE	2027	2077	8,443	8,443	.05996	R	8,443
LOST CREEK	2027	2052	80	80	.05928	R	80
BONNEVILLE	2027	2052	15	15	.05928	R	15

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
BOISE	2027	2052	23,141	23,141	.05928	R	23,141	
GREEN PETER-FOSTER	2027	2047	1,039	1,039	.05861	R	1,039	
COLUMBIA BASIN	2027	2047	5,023	5,023	.05861	R	5,023	
BOISE	2027	2047	151	151	.05861	R	151	
BONNEVILLE	2027	2042	1,189	1,189	.05794	R	1,189	
MCNARY	2027	2039	30,675	30,675	.05753	R	30,675	
LOOKOUT POINT-DEXTER	2027	2039	42	42	.05753	R	42	
ALBENI FALLS	2027	2039	141	141	.05753	R	141	
CHIEF JOSEPH	2027	2037	44	44	.05726	R	44	
GREEN PETER-FOSTER	2027	2037	23	23	.05726	R	23	
MINIDOKA	2027	2037	17	17	.05726	R	17	
LOOKOUT POINT-DEXTER	2027	2035	6	6	.05694	R	6	
LITTLE GOOSE	2027	2035	43	43	.05694	R	43	
MCNARY	2027	2035	64	64	.05694	R	64	
COUGAR	2027	2034	2	2	.05678	R	2	
LITTLE GOOSE	2027	2034	25	25	.05678	R	25	
ICE HARBOR	2027	2032	14,601	14,601	.05616	R	14,601	
TOTAL							196,217	
2028	GREEN PETER-FOSTER	2028	2058	172	172	.05996	R	172
	YAKIMA-ROZA	2028	2063	59	59	.05996	R	59
	LOWER SNAKE F AND W	2028	2073	1,147	1,147	.05996	R	1,147
	LOWER GRANITE	2028	2078	1,768	1,768	.05996	R	1,768
	LITTLE GOOSE	2028	2078	1,826	1,826	.05996	R	1,826
	COLUMBIA BASIN	2028	2078	124,722	124,722	.05996	R	124,722
	CHIEF JOSEPH	2028	2078	13,185	13,185	.05996	R	13,185
	LITTLE GOOSE	2028	2053	40	40	.05928	R	40
	HUNGRY HORSE	2028	2053	11,503	11,503	.05928	R	11,503
	LOWER GRANITE	2028	2053	125	125	.05928	R	125
	COLUMBIA BASIN	2028	2053	53,097	53,097	.05928	R	53,097
	CHIEF JOSEPH	2028	2053	366	366	.05928	R	366
	GREEN PETER-FOSTER	2028	2048	849	849	.05861	R	849
	HUNGRY HORSE	2028	2043	503	503	.05794	R	503
	LOWER SNAKE F AND W	2028	2043	1,200	1,200	.05794	R	1,200
	LITTLE GOOSE	2028	2038	1,113	1,113	.05726	R	1,113
	COUGAR	2028	2036	4	4	.05694	R	4
	LOWER SNAKE F AND W	2028	2033	52	52	.05616	R	52
TOTAL							211,731	

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(ALL AMOUNT IN \$1000)								
	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2031	LITTLE GOOSE	2031	2061	259	259	.05996	R	259
	BONNEVILLE	2031	2076	1,195	1,195	.05996	R	1,195
	YAKIMA-CHANDLER	2031	2056	1,010	1,010	.05928	R	1,010
	LITTLE GOOSE	2031	2051	32,270	32,270	.05861	R	32,270
	LITTLE GOOSE	2031	2046	32,761	32,761	.05794	R	32,761
	YAKIMA-CHANDLER	2031	2046	27	27	.05794	R	27
	BONNEVILLE	2031	2046	2,760	2,760	.05794	R	2,760
	LOWER SNAKE F AND W	2031	2043	557	557	.05753	R	557
	LITTLE GOOSE	2031	2043	2,454	2,454	.05753	R	2,454
	THE DALLES	2031	2043	10	10	.05753	R	10
	LITTLE GOOSE	2031	2041	12	12	.05726	R	12
	BONNEVILLE	2031	2041	120	120	.05726	R	120
	GREEN PETER-FOSTER	2031	2039	15	15	.05694	R	15
	LOWER SNAKE F AND W	2031	2039	117	117	.05694	R	117
	LOWER GRANITE	2031	2039	34	34	.05694	R	34
	THE DALLES	2031	2039	76	76	.05694	R	76
	DETROIT-BIG CLIFF	2031	2038	2	2	.05678	R	2
	LOWER GRANITE	2031	2038	26	26	.05678	R	26
	BONNEVILLE	2031	2036	69,203	69,203	.05616	R	69,203
	TOTAL							----- 142,908
2032	ICE HARBOR	2032	2067	18,005	18,005	.05996	R	18,005
	BOISE	2032	2067	1,042	1,042	.05996	R	1,042
	BONNEVILLE	2032	2082	14,562	14,562	.05996	R	14,562
	MINIDOKA	2032	2057	2,517	2,517	.05928	R	2,517
	CHIEF JOSEPH	2032	2057	4,488	4,488	.05928	R	4,488
	BONNEVILLE	2032	2057	4,562	4,562	.05928	R	4,562
	CHIEF JOSEPH	2032	2047	1,528	1,528	.05794	R	1,528
	MINIDOKA	2032	2047	136	136	.05794	R	136
	BOISE	2032	2047	13	13	.05794	R	13
	ICE HARBOR	2032	2042	14,233	14,233	.05726	R	14,233
	LOWER SNAKE F AND W	2032	2039	610	610	.05678	R	610
	LIBBY	2032	2039	74	74	.05678	R	74
	LOWER MONUMENTAL	2032	2039	25	25	.05678	R	25
	LOOKOUT POINT-DEXTER	2032	2039	16	16	.05678	R	16
	BONNEVILLE	2032	2039	29,448	29,448	.05678	R	29,448
	MCNARY	2032	2039	31	31	.05678	R	31
	ICE HARBOR	2032	2039	27,608	27,608	.05678	R	27,608
	ICE HARBOR	2032	2037	14,601	14,601	.05616	R	14,601

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT

TOTAL							133,499
2033	2033	2063	20,715	20,715	.05996	R	20,715
THE DALLES	2033	2073	6,573	6,573	.05996	R	6,573
HUNGRY HORSE	2033	2083	17,926	17,926	.05996	R	17,926
LOWER SNAKE F AND W	2033	2058	114	114	.05928	R	114
YAKIMA-ROZA	2033	2058	1,079	1,079	.05928	R	1,079
LOWER SNAKE F AND W	2033	2053	242	242	.05861	R	242
THE DALLES	2033	2053	756	756	.05861	R	756
HUNGRY HORSE	2033	2053	3,654	3,654	.05861	R	3,654
DWORSHAK	2033	2048	2	2	.05794	R	2
YAKIMA-ROZA	2033	2048	3,131	3,131	.05794	R	3,131
DWORSHAK	2033	2048	2,096	2,096	.05794	R	2,096
THE DALLES	2033	2045	1,853	1,853	.05753	R	1,853
THE DALLES	2033	2045	58	58	.05753	R	58
DWORSHAK	2033	2043	1,110	1,110	.05726	R	1,110
LOWER SNAKE F AND W	2033	2043	196	196	.05726	R	196
DWORSHAK	2033	2041	1	1	.05694	R	1
LOST CREEK	2033	2041	48	48	.05694	R	48
LOWER MONUMENTAL	2033	2040	29	29	.05678	R	29
JOHN DAY	2033	2038	52	52	.05616	R	52
LOWER SNAKE F AND W							-----
TOTAL							59,635
2034	2034	2069	2,760	2,760	.05996	R	2,760
COUGAR	2034	2074	13,798	13,798	.05996	R	13,798
DETROIT-BIG CLIFF	2034	2074	1,606	1,606	.05996	R	1,606
DETROIT-BIG CLIFF	2034	2059	2,744	2,744	.05928	R	2,744
THE DALLES	2034	2054	318	318	.05861	R	318
DETROIT-BIG CLIFF	2034	2054	4,908	4,908	.05861	R	4,908
DETROIT-BIG CLIFF	2034	2049	1,358	1,358	.05794	R	1,358
THE DALLES	2034	2046	5,153	5,153	.05753	R	5,153
ICE HARBOR	2034	2044	34	34	.05726	R	34
DETROIT-BIG CLIFF	2034	2042	5	5	.05694	R	5
DETROIT-BIG CLIFF	2034	2042	5	5	.05694	R	5
JOHN DAY	2034	2042	7,485	7,485	.05694	R	7,485
ICE HARBOR	2034	2041	25	25	.05678	R	25
LITTLE GOOSE	2034	2041	2	2	.05678	R	2
COUGAR	2034	2039	47	47	.05616	R	47
THE DALLES							-----
TOTAL							40,248

APPLICATION OF AMORTIZATION GENERATION FY 2004 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR	-----INVESTMENT PAID-----							
	(ALL AMOUNT IN \$1000)							
	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2035	LOWER GRANITE	2035	2065	715	715	.05996	R	715
	MCNARY	2035	2075	34,696	34,696	.05996	R	34,696
	LOOKOUT POINT-DEXTER	2035	2075	2,280	2,280	.05996	R	2,280
	LOOKOUT POINT-DEXTER	2035	2075	11,432	11,432	.05996	R	11,432
	ALBENI FALLS	2035	2075	687	687	.05996	R	687
	LIBBY	2035	2085	6,503	6,503	.05996	R	6,503
	LIBBY	2035	2060	299	299	.05928	R	299
	LOOKOUT POINT-DEXTER	2035	2055	472	472	.05861	R	472
	MCNARY	2035	2055	1,323	1,323	.05861	R	1,323
	LOOKOUT POINT-DEXTER	2035	2055	81	81	.05861	R	81
	ALBENI FALLS	2035	2055	1,000	1,000	.05861	R	1,000
	LOWER GRANITE	2035	2055	38,282	38,282	.05861	R	38,282
	LOWER GRANITE	2035	2050	18,650	18,650	.05794	R	18,650
	LOWER GRANITE	2035	2047	22	22	.05753	R	22
	LOOKOUT POINT-DEXTER	2035	2045	117	117	.05726	R	117
	MCNARY	2035	2045	62,577	62,577	.05726	R	62,577
	LOWER GRANITE	2035	2045	953	953	.05726	R	953
	ALBENI FALLS	2035	2045	1	1	.05726	R	1
	LITTLE GOOSE	2035	2043	43	43	.05694	R	43
	LOOKOUT POINT-DEXTER	2035	2043	6	6	.05694	R	6
	MCNARY	2035	2043	64	64	.05694	R	64
	TOTAL							----- 180,203
2036	YAKIMA-CHANDLER	2036	2076	507	507	.05996	R	507
	YAKIMA-CHANDLER	2036	2056	94	94	.05861	R	94
	LIBBY	2036	2056	713	713	.05861	R	713
	ICE HARBOR	2036	2056	209	209	.05861	R	209
	LIBBY	2036	2051	2,029	2,029	.05794	R	2,029
	YAKIMA-CHANDLER	2036	2046	64	64	.05726	R	64
	LIBBY	2036	2046	74	74	.05726	R	74
	COUGAR	2036	2044	4	4	.05694	R	4
	DWORSHAK	2036	2043	18	18	.05678	R	18
	THE DALLES	2036	2043	50	50	.05678	R	50
	BONNEVILLE	2036	2041	69,203	69,203	.05616	R	69,203
	TOTAL							----- 72,965

APPLICATION OF AMORTIZATION

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2037	MINIDOKA	2037	2067	75	75	.05996	R	75
	LOST CREEK	2037	2067	175	175	.05996	R	175
	COLUMBIA BASIN	2037	2067	2,243	2,243	.05996	R	2,243
	MINIDOKA	2037	2077	1,758	1,758	.05996	R	1,758
	MINIDOKA	2037	2077	6,779	6,779	.05996	R	6,779
	CHIEF JOSEPH	2037	2077	29,603	29,603	.05996	R	29,603
	COLUMBIA BASIN	2037	2082	49,608	49,608	.05996	R	49,608
	ICE HARBOR	2037	2062	1,694	1,694	.05928	R	1,694
	HILLS CREEK	2037	2062	1	1	.05928	R	1
	LOST CREEK	2037	2057	40	40	.05861	R	40
	MINIDOKA	2037	2057	101	101	.05861	R	101
	MINIDOKA	2037	2057	298	298	.05861	R	298
	CHIEF JOSEPH	2037	2057	2,335	2,335	.05861	R	2,335
	COLUMBIA BASIN	2037	2052	906	906	.05794	R	906
	MINIDOKA	2037	2052	92	92	.05794	R	92
	LOST CREEK	2037	2049	5	5	.05753	R	5
	BONNEVILLE	2037	2049	156	156	.05753	R	156
	GREEN PETER-FOSTER	2037	2047	23	23	.05726	R	23
	MINIDOKA	2037	2047	17	17	.05726	R	17
	CHIEF JOSEPH	2037	2047	44	44	.05726	R	44
	DWORSHAK	2037	2045	40	40	.05694	R	40
	BONNEVILLE	2037	2045	4,295	4,295	.05694	R	4,295
	GREEN PETER-FOSTER	2037	2044	18	18	.05678	R	18
	ICE HARBOR	2037	2042	14,601	14,601	.05616	R	14,601
	TOTAL							114,907
2038	COLUMBIA BASIN	2038	2068	2,518	2,518	.05996	R	2,518
	YAKIMA-ROZA	2038	2078	134	134	.05996	R	134
	LOWER GRANITE	2038	2058	335	335	.05861	R	335
	LITTLE GOOSE	2038	2058	207	207	.05861	R	207
	YAKIMA-ROZA	2038	2058	9	9	.05861	R	9
	COLUMBIA BASIN	2038	2058	5,885	5,885	.05861	R	5,885
	CHIEF JOSEPH	2038	2058	758	758	.05861	R	758
	LOWER GRANITE	2038	2053	335	335	.05794	R	335
	COLUMBIA BASIN	2038	2053	1,225	1,225	.05794	R	1,225
	CHIEF JOSEPH	2038	2053	216	216	.05794	R	216
	DETROIT-BIG CLIFF	2038	2050	26	26	.05753	R	26
	LITTLE GOOSE	2038	2048	1,113	1,113	.05726	R	1,113
	DETROIT-BIG CLIFF	2038	2045	2	2	.05678	R	2

APPLICATION OF AMORTIZATION		GENERATION		FY 2004		REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL		
YEAR	-----INVESTMENT PAID-----							
(ALL AMOUNT IN \$1000)								
	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2041	LITTLE GOOSE	2041	2076	13,445	13,445	.05996	R	13,445
	DETROIT-BIG CLIFF	2041	2091	605	605	.05996	R	605
	BONNEVILLE	2041	2091	23,074	23,074	.05996	R	23,074
	BONNEVILLE	2041	2066	2,777	2,777	.05928	R	2,777
	BONNEVILLE	2041	2061	665	665	.05861	R	665
	LOWER MONUMENTAL	2041	2053	2,454	2,454	.05753	R	2,454
	BONNEVILLE	2041	2051	120	120	.05726	R	120
	LITTLE GOOSE	2041	2051	12	12	.05726	R	12
	LOST CREEK	2041	2049	1	1	.05694	R	1
	LOWER MONUMENTAL	2041	2049	48	48	.05694	R	48
	LITTLE GOOSE	2041	2048	25	25	.05678	R	25
	COUGAR	2041	2048	2	2	.05678	R	2
	BONNEVILLE	2041	2046	69,203	69,203	.05616	R	69,203
	TOTAL							112,431
2042	ICE HARBOR	2042	2082	12,395	12,395	.05996	R	12,395
	HILLS CREEK	2042	2082	1,887	1,887	.05996	R	1,887
	MINIDOKA	2042	2067	2,106	2,106	.05928	R	2,106
	GREEN PETER-FOSTER	2042	2067	144	144	.05928	R	144
	ICE HARBOR	2042	2062	1,553	1,553	.05861	R	1,553
	BONNEVILLE	2042	2057	1,189	1,189	.05794	R	1,189
	JOHN DAY	2042	2054	47	47	.05753	R	47
	ICE HARBOR	2042	2052	14,233	14,233	.05726	R	14,233
	ICE HARBOR	2042	2050	7,485	7,485	.05694	R	7,485
	JOHN DAY	2042	2050	5	5	.05694	R	5
	DETROIT-BIG CLIFF	2042	2050	5	5	.05694	R	5
	ICE HARBOR	2042	2047	14,601	14,601	.05616	R	14,601
	TOTAL							55,650
2043	LOWER SNAKE F AND W	2043	2073	2,369	2,369	.05996	R	2,369
	HUNGRY HORSE	2043	2073	508	508	.05996	R	508
	THE DALLES	2043	2078	16,752	16,752	.05996	R	16,752
	DWORSHAK	2043	2078	13,265	13,265	.05996	R	13,265
	HUNGRY HORSE	2043	2088	7,220	7,220	.05996	R	7,220
	GREEN PETER-FOSTER	2043	2068	74	74	.05928	R	74
	LOWER SNAKE F AND W	2043	2063	5,579	5,579	.05861	R	5,579
	HUNGRY HORSE	2043	2058	503	503	.05794	R	503
	LOWER SNAKE F AND W	2043	2058	1,200	1,200	.05794	R	1,200
	LOWER SNAKE F AND W	2043	2055	557	557	.05753	R	557

APPLICATION OF AMORTIZATION GENERATION FY 2004 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR -----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
LITTLE GOOSE	2043	2055	2,454	2,454	.05753	R	2,454	
THE DALLES	2043	2055	10	10	.05753	R	10	
LOWER SNAKE F AND W	2043	2053	1,110	1,110	.05726	R	1,110	
DWORSHAK	2043	2053	196	196	.05726	R	196	
LITTLE GOOSE	2043	2051	43	43	.05694	R	43	
MCNARY	2043	2051	64	64	.05694	R	64	
LOOKOUT POINT-DEXTER	2043	2051	6	6	.05694	R	6	
DWORSHAK	2043	2050	18	18	.05678	R	18	
THE DALLES	2043	2050	50	50	.05678	R	50	
LOWER SNAKE F AND W	2043	2048	52	52	.05616	R	52	
TOTAL							52,030	
2044	DETROIT-BIG CLIFF	2044	2074	664	664	.05996	R	664
	COUGAR	2044	2084	1,626	1,626	.05996	R	1,626
	DETROIT-BIG CLIFF	2044	2089	5,244	5,244	.05996	R	5,244
	LOWER MONUMENTAL	2044	2069	913	913	.05928	R	913
	COUGAR	2044	2064	76	76	.05861	R	76
	DETROIT-BIG CLIFF	2044	2059	25,154	25,154	.05794	R	25,154
	DETROIT-BIG CLIFF	2044	2059	18	18	.05794	R	18
	LOWER MONUMENTAL	2044	2059	31,534	31,534	.05794	R	31,534
	DETROIT-BIG CLIFF	2044	2054	34	34	.05726	R	34
	COUGAR	2044	2052	4	4	.05694	R	4
	GREEN PETER-FOSTER	2044	2051	18	18	.05678	R	18
	THE DALLES	2044	2049	47	47	.05616	R	47
TOTAL							65,332	
2045	LOWER GRANITE	2045	2080	9,056	9,056	.05996	R	9,056
	LOOKOUT POINT-DEXTER	2045	2090	2,482	2,482	.05996	R	2,482
	LOOKOUT POINT-DEXTER	2045	2090	5,973	5,973	.05996	R	5,973
	JOHN DAY	2045	2070	694	694	.05928	R	694
	LOOKOUT POINT-DEXTER	2045	2060	465	465	.05794	R	465
	MCNARY	2045	2060	22,700	22,700	.05794	R	22,700
	LIBBY	2045	2060	222	222	.05794	R	222
	JOHN DAY	2045	2060	169	169	.05794	R	169
	JOHN DAY	2045	2060	2,130	2,130	.05794	R	2,130
	ALBENI FALLS	2045	2060	63	63	.05794	R	63
	THE DALLES	2045	2057	1,853	1,853	.05753	R	1,853
	DWORSHAK	2045	2057	58	58	.05753	R	58
	LOWER GRANITE	2045	2055	953	953	.05726	R	953

APPLICATION OF AMORTIZATION		GENERATION		FY 2004		REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL		
YEAR	-----INVESTMENT PAID-----							
(ALL AMOUNT IN \$1000)								
PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
+								
	LOOKOUT POINT-DEXTER	2045	2055	117	117	.05726	R 117	
	ALBENI FALLS	2045	2055	1	1	.05726	R 1	
	MCNARY	2045	2055	62,577	62,577	.05726	R 62,577	
	BONNEVILLE	2045	2053	4,295	4,295	.05694	R 4,295	
	DWORSHAK	2045	2053	40	40	.05694	R 40	
	LOWER GRANITE	2045	2052	26	26	.05678	R 26	
	DETROIT-BIG CLIFF	2045	2052	2	2	.05678	R 2	
	TOTAL						----- 113,876	
2046	YAKIMA-CHANDLER	2046	2076	65	65	.05996	R 65	
	LIBBY	2046	2081	11,218	11,218	.05996	R 11,218	
	ICE HARBOR	2046	2081	6,910	6,910	.05996	R 6,910	
	BONNEVILLE	2046	2081	78,718	78,718	.05996	R 78,718	
	YAKIMA-CHANDLER	2046	2091	828	828	.05996	R 828	
	LITTLE GOOSE	2046	2071	1,045	1,045	.05928	R 1,045	
	LITTLE GOOSE	2046	2061	32,761	32,761	.05794	R 32,761	
	YAKIMA-CHANDLER	2046	2061	27	27	.05794	R 27	
	BONNEVILLE	2046	2061	2,760	2,760	.05794	R 2,760	
	ICE HARBOR	2046	2058	5,153	5,153	.05753	R 5,153	
	LIBBY	2046	2056	74	74	.05726	R 74	
	YAKIMA-CHANDLER	2046	2056	64	64	.05726	R 64	
	LIBBY	2046	2053	74	74	.05678	R 74	
	ICE HARBOR	2046	2053	27,608	27,608	.05678	R 27,608	
	MCNARY	2046	2053	31	31	.05678	R 31	
	LOWER MONUMENTAL	2046	2053	25	25	.05678	R 25	
	BONNEVILLE	2046	2053	29,448	29,448	.05678	R 29,448	
	LOOKOUT POINT-DEXTER	2046	2053	16	16	.05678	R 16	
	LOWER SNAKE F AND W	2046	2053	610	610	.05678	R 610	
	BONNEVILLE	2046	2051	69,203	69,203	.05616	R 69,203	
	TOTAL						----- 266,638	
2047	MINIDOKA	2047	2077	94	94	.05996	R 94	
	BOISE	2047	2077	70	70	.05996	R 70	
	LOST CREEK	2047	2082	18	18	.05996	R 18	
	BONNEVILLE	2047	2082	16	16	.05996	R 16	
	GREEN PETER-FOSTER	2047	2087	4,109	4,109	.05996	R 4,109	
	BOISE	2047	2087	859	859	.05996	R 859	
	MINIDOKA	2047	2092	4,303	4,303	.05996	R 4,303	
	COLUMBIA BASIN	2047	2097	151,088	151,088	.05996	R 151,088	

APPLICATION OF AMORTIZATION GENERATION FY 2004 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR -----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
COLUMBIA BASIN	2047	2072	48,386	48,386	.05928	R	48,386
GREEN PETER-FOSTER	2047	2067	1,039	1,039	.05861	R	1,039
COLUMBIA BASIN	2047	2067	5,023	5,023	.05861	R	5,023
BOISE	2047	2067	151	151	.05861	R	151
MINIDOKA	2047	2062	136	136	.05794	R	136
CHIEF JOSEPH	2047	2062	1,528	1,528	.05794	R	1,528
BOISE	2047	2062	13	13	.05794	R	13
LOWER GRANITE	2047	2059	22	22	.05753	R	22
CHIEF JOSEPH	2047	2057	44	44	.05726	R	44
MINIDOKA	2047	2057	17	17	.05726	R	17
GREEN PETER-FOSTER	2047	2057	23	23	.05726	R	23
GREEN PETER-FOSTER	2047	2055	15	15	.05694	R	15
THE DALLES	2047	2055	76	76	.05694	R	76
LOWER SNAKE F AND W	2047	2055	117	117	.05694	R	117
LOWER GRANITE	2047	2055	34	34	.05694	R	34
JOHN DAY	2047	2054	29	29	.05678	R	29
ICE HARBOR	2047	2052	14,601	14,601	.05616	R	14,601
TOTAL							231,811
2048							
YAKIMA-ROZA	2048	2078	5	5	.05996	R	5
LOWER GRANITE	2048	2083	10,666	10,666	.05996	R	10,666
LITTLE GOOSE	2048	2083	10,492	10,492	.05996	R	10,492
COLUMBIA BASIN	2048	2083	58,797	58,797	.05996	R	58,797
CHIEF JOSEPH	2048	2083	74,609	74,609	.05996	R	74,609
GREEN PETER-FOSTER	2048	2088	18,021	18,021	.05996	R	18,021
YAKIMA-ROZA	2048	2093	226	226	.05996	R	226
DWORSHAK	2048	2073	7,890	7,890	.05928	R	7,890
GREEN PETER-FOSTER	2048	2068	849	849	.05861	R	849
YAKIMA-ROZA	2048	2063	2	2	.05794	R	2
DWORSHAK	2048	2063	3,131	3,131	.05794	R	3,131
THE DALLES	2048	2063	2,096	2,096	.05794	R	2,096
LITTLE GOOSE	2048	2058	1,113	1,113	.05726	R	1,113
COUGAR	2048	2055	2	2	.05678	R	2
LITTLE GOOSE	2048	2055	25	25	.05678	R	25
LOWER SNAKE F AND W	2048	2053	52	52	.05616	R	52
TOTAL							187,976

APPLICATION OF AMORTIZATION

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2049	LOWER MONUMENTAL	2049	2084	10,135	10,135	.05996	R	10,135
	LOWER MONUMENTAL	2049	2089	11,288	11,288	.05996	R	11,288
	LOWER MONUMENTAL	2049	2069	32,270	32,270	.05861	R	32,270
	THE DALLES	2049	2064	1,358	1,358	.05794	R	1,358
	LOST CREEK	2049	2061	5	5	.05753	R	5
	BONNEVILLE	2049	2061	156	156	.05753	R	156
	THE DALLES	2049	2059	1	1	.05726	R	1
	LOWER MONUMENTAL	2049	2059	12	12	.05726	R	12
	LOST CREEK	2049	2057	1	1	.05694	R	1
	LOWER MONUMENTAL	2049	2057	48	48	.05694	R	48
	THE DALLES	2049	2054	47	47	.05616	R	47
	TOTAL							55,321
2050	JOHN DAY	2050	2090	49,500	49,500	.05996	R	49,500
	LOWER GRANITE	2050	2075	222	222	.05928	R	222
	JOHN DAY	2050	2070	2,130	2,130	.05861	R	2,130
	LOWER GRANITE	2050	2065	18,650	18,650	.05794	R	18,650
	DETROIT-BIG CLIFF	2050	2062	26	26	.05753	R	26
	JOHN DAY	2050	2058	5	5	.05694	R	5
	ICE HARBOR	2050	2058	7,485	7,485	.05694	R	7,485
	DETROIT-BIG CLIFF	2050	2058	5	5	.05694	R	5
	DWORSHAK	2050	2057	18	18	.05678	R	18
	THE DALLES	2050	2057	50	50	.05678	R	50
	TOTAL							78,091
2051	LITTLE GOOSE	2051	2091	11,283	11,283	.05996	R	11,283
	LIBBY	2051	2076	2,814	2,814	.05928	R	2,814
	ICE HARBOR	2051	2076	45	45	.05928	R	45
	LITTLE GOOSE	2051	2071	32,270	32,270	.05861	R	32,270
	LIBBY	2051	2066	2,029	2,029	.05794	R	2,029
	MCNARY	2051	2063	30,675	30,675	.05753	R	30,675
	LOOKOUT POINT-DEXTER	2051	2063	42	42	.05753	R	42
	ALBENI FALLS	2051	2063	141	141	.05753	R	141
	LITTLE GOOSE	2051	2061	12	12	.05726	R	12
	BONNEVILLE	2051	2061	120	120	.05726	R	120
	LOOKOUT POINT-DEXTER	2051	2059	6	6	.05694	R	6
	MCNARY	2051	2059	64	64	.05694	R	64
	LITTLE GOOSE	2051	2059	43	43	.05694	R	43
	GREEN PETER-FOSTER	2051	2058	18	18	.05678	R	18

APPLICATION OF AMORTIZATION

GENERATION FY 2004

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	BONNEVILLE	2051	2056	69,203	69,203	.05616	R	69,203
	TOTAL							148,765
2052	ICE HARBOR	2052	2082	387	387	.05996	R	387
	HILLS CREEK	2052	2082	369	369	.05996	R	369
	COLUMBIA BASIN	2052	2087	42,469	42,469	.05996	R	42,469
	BONNEVILLE	2052	2087	75,168	75,168	.05996	R	75,168
	ICE HARBOR	2052	2097	213	213	.05996	R	213
	MINIDOKA	2052	2097	6,569	6,569	.05996	R	6,569
	HILLS CREEK	2052	2097	598	598	.05996	R	598
	LOST CREEK	2052	2077	80	80	.05928	R	80
	BONNEVILLE	2052	2077	15	15	.05928	R	15
	BOISE	2052	2077	23,141	23,141	.05928	R	23,141
	COLUMBIA BASIN	2052	2067	906	906	.05794	R	906
	MINIDOKA	2052	2067	92	92	.05794	R	92
	ICE HARBOR	2052	2062	14,233	14,233	.05726	R	14,233
	COUGAR	2052	2060	4	4	.05694	R	4
	LOWER GRANITE	2052	2059	26	26	.05678	R	26
	DETROIT-BIG CLIFF	2052	2059	2	2	.05678	R	2
	ICE HARBOR	2052	2057	14,601	14,601	.05616	R	14,601
	TOTAL							178,873
2053	LOWER SNAKE F AND W	2053	2088	1,218	1,218	.05996	R	1,218
	DWORSHAK	2053	2093	8,244	8,244	.05996	R	8,244
	HUNGRY HORSE	2053	2103	49,500	49,500	.05996	R	49,500
	LOWER GRANITE	2053	2078	125	125	.05928	R	125
	LITTLE GOOSE	2053	2078	40	40	.05928	R	40
	HUNGRY HORSE	2053	2078	11,503	11,503	.05928	R	11,503
	COLUMBIA BASIN	2053	2078	53,097	53,097	.05928	R	53,097
	CHIEF JOSEPH	2053	2078	366	366	.05928	R	366
	THE DALLES	2053	2073	242	242	.05861	R	242
	HUNGRY HORSE	2053	2073	756	756	.05861	R	756
	DWORSHAK	2053	2073	3,654	3,654	.05861	R	3,654
	LOWER GRANITE	2053	2068	335	335	.05794	R	335
	COLUMBIA BASIN	2053	2068	1,225	1,225	.05794	R	1,225
	CHIEF JOSEPH	2053	2068	216	216	.05794	R	216
	LOWER MONUMENTAL	2053	2065	2,454	2,454	.05753	R	2,454
	LOWER SNAKE F AND W	2053	2063	1,110	1,110	.05726	R	1,110
	DWORSHAK	2053	2063	196	196	.05726	R	196

CHAPTER 7

**REPAYMENT STUDY INPUT FILES
CURRENT STUDY
FY 2005**

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**The data in Computer File Form Used in
the FY 2005 Current Repayment Study
for Generation**

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1INPUT CARDS ONLY

N1 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL
 N2 OCTOBER 1,2004- SEPTEMBER 30,2005 COST EVALUATION PERIOD
 N3 REPAY 05 GI00 - GENERATION, 2002 FINAL RATE PROPOSAL
 N0 GENERATION

11999 0 0 770437 200520552055
 OHISTORICAL YEAR: 1999
 HISTORICAL CUMULATIVE REVENUES: 0
 HISTORICAL CUMULATIVE PURCHASE & EXCHANGE: 0
 HISTORICAL CUMULATIVE IRRIGATION INVESTMENT: 770437
 YEAR OF THE RATE CHANGE: 2005
 LAST YEAR OF REPAYMENT PERIOD: 2055

INTEREST RATES OF INTEREST INCOME

1X06839 06827 06914 06931 06830 06836 06836

INTEREST RATES OF NEW DEFERRALS

1Y07500 07625 07500 07250 07125 06875 07000

OPERATING YEAR FACTORS

1F75000 75000 75000 75000 75000 75000 75000

PROJECTED REVENUE

22000	949360	977980	1008938	990615	1003336	1033376	1033376	6996981
22007	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22014	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22021	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22028	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22035	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22042	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22049	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
22056	1033376	1033376	1033376	1033376	1033376	1033376	1033376	7233632
	9216368	9244988	9275946	9257623	9270344	9300384	9300384	64866037 = TOTAL FOR 2

PROJECTED IRRIGATION ASSISTANCE

	NEW INVESTMENT	NEW INVESTMENT	NEW INVESTMENT	
32000	0	0	0	0
32003	0	0	0	0
32006	0	0	0	0
32009	0	6942	6566	13508
32012	3476	19793	37530	60799
32015	5107	5394	35253	45754
32018	51187	10902	21258	83347
32021	39207	39049	29080	107336
32024	41806	20037	33228	95071

32027	32228	33386	44797		110411
32030	29963	29963	44797		104723
32033	40424	40424	29207		110055
32036	28549	28708	29310		86567
32039	29311	33835	33836		96982
32042	34694	34695	32941		102330
32045	32941	33099	39725		105765
32048	39883	39883	23256		103022
32051	23415	24346	31316		79077
32054	31316	31316	24194		86826
32057	24352	36906	37068		98326
32060	34318				34318
	522177	468678	0		1524217 = TOTAL FOR 3

CAPITALIZED CONTRACTUAL OBLIGATIONS

42000	647803	641433	567253	607002	595031	542149	575913	4176584
42007	592412	604796	587274	585491	605065	627264	384546	3986848
42014	379091	375036	365132	288805	126988	345453	345458	2225963
42021	342519	343017	343240	329775	328883	328327	328327	2344088
42028	328327	328327	327327	327327	327327	327327	327327	2293289
42035	327327	327327	327327	327327	327327	327327	327327	2291289
42042	327327	327327	327327	327327	327327	327327	327327	2291289
42049	327327	327327	327327	327327	327327	327327	0	1963962
42056	0							0
	3272133	3274590	3172207	3120381	2965275	3152501	2616225	21573312 = TOTAL FOR 4

5	ALBE	ALBENI FALLS
5	BOIS	BOISE
5	BON2	BONNEVILLE - 2ND POWER HOUSE
5	BONN	BONNEVILLE
5	CHIE	CHIEF JOSEPH
5	COL3	COLUMBIA BASIN - 3RD PWR HOUSE
5	COLU	COLUMBIA BASIN
5	COUG	COUGAR
5	CRFB	COLUMBIA RIVER FISH MITIGATION
5	DETR	DETROIT-BIG CLIFF
5	DWOR	DWORSHAK
5	GREE	GREEN PETER-FOSTER
5	HILL	HILLS CREEK
5	HUNG	HUNGRY HORSE
5	ICEF	ICE HARBOR FISH BYPASS
5	ICEH	ICE HARBOR
5	JOHN	JOHN DAY
5	LIBB	LIBBY
5	LITF	LITTLE GOOSE FISH BYPASS
5	LITT	LITTLE GOOSE
5	LOGF	LOWER GRANITE FISH BYPASS
5	LOMF	LOWER MONUMENTAL FISH BYPASS
5	LOOK	LOOKOUT POINT-DEXTER
5	LOST	LOST CREEK
5	LOWG	LOWER GRANITE

5	LOWM	LOWER MONUMENTAL
5	LSFW	LOWER SNAKE F AND W
5	MCNA	MCNARY
5	MCNF	MCNARY FISH BYPASS
5	MINI	MINIDOKA
5	STRU	STRUBE
5	THED	THE DALLES
5	YAKC	YAKIMA-CHANDLER
5	YAKR	YAKIMA-ROZA
5	ZABF	BPA PROGRAM
5	ZACO	BPA CONSERVATION
5	ZADB	BUREAU DIRECT FUND
5	ZAFW	FISH, WILDLIFE & ENVIRONMENTAL
5	ZBPA	BONNEVILLE POWER ADMINISTRATION
5	ZIRR	IRRIGATION ASSISTANCE

HISTORICAL
O & M INTEREST

5	ALBEX	46124	28741	74865
5	BOISX	37894	1219	39113
5	BONNX	159278	404368	563646
5	CHIEX	157353	341762	499115
5	COLUX	439614	523602	963216
5	COUGX	8325	14094	22419
5	CRFBX	0	10685	10685
5	DETRX	28066	36358	64424
5	DWORX	86776	181080	267856
5	GREEX	25086	36298	61384
5	HILLX	7982	14445	22427
5	HUNGX	35067	51482	86549
5	ICEHX	68783	103828	172611
5	JOHNX	130461	272420	402881
5	LIBBX	54613	267605	322218
5	LITTX	64213	154450	218663
5	LOOKX	32943	44304	77247
5	LOSTX	14656	16439	31095
5	LOWGX	86708	208147	294855
5	LOWMX	64436	168805	233241
5	LSFWX	109509	108916	218425
5	MCNAX	167850	243309	411159
5	MINIX	79765	2794	82559
5	THEDX	124576	233403	357979
5	YAKCX	19378	2916	22294
5	YAKRX	9178	824	10002
5	ZBPAX	0	0	0
5	ZACOX	0	0	0
		2058634	3472294	5530928 = TOTAL FOR 5

PROJECTED O & M

0

0 = TOTAL FOR 6

61994ZABF

0

0

0 = TOTAL FOR 6

HISTORICAL FEDERAL INVESTMENTS

			ORIGINAL	CURRENT	INTEREST	DUE	INSERVICE	CALENDAR
	PROJECT		PRINCIPAL	PRINCIPAL	RATE	DATE	DATE	MONTH
6	1998	ALBE X	25494	16854	.06910	2005		1955
6	1998	ALBE X	11	11	.06910	2005 R		1956
6	1998	ALBE X	10	10	.06910	2005 R		1957
6	1998	ALBE X	11	11	.06910	2005 R		1958
6	1998	ALBE X	11	11	.06910	2005 R		1959
6	1998	ALBE X	10	10	.06910	2005 R		1960
6	1998	ALBE X	11	11	.06910	2005 R		1961
6	1998	ALBE X	11	11	.06910	2005 R		1962
6	1998	ALBE X	10	10	.06910	2005 R		1963
6	1998	ALBE X	11	11	.06910	2005 R		1964
6	1998	ALBE X	11	11	.06910	2005 R		1965
6	1998	ALBE X	10	10	.06910	2005 R		1966
6	1998	ALBE X	11	11	.06910	2005 R		1967
6	1998	ALBE X	11	11	.06910	2005 R		1968
6	1998	ALBE X	10	10	.06910	2005 R		1969
6	1998	ALBE X	11	11	.06910	2005 R		1970
6	1998	ALBE X	11	11	.06910	2005 R		1971
6	1998	ALBE X	10	10	.06910	2005 R		1972
6	1998	ALBE X	11	11	.06910	2005 R		1973
6	1998	ALBE X	11	11	.06910	2005 R		1974
6	1998	ALBE X	10	10	.06910	2005 R		1975
6	1998	ALBE X	11	11	.06910	2005 R		1976
6	1998	ALBE X	11	11	.06910	2005 R		1977
6	1998	ALBE X	10	10	.06910	2005 R		1978
6	1998	ALBE X	11	11	.06910	2005 R		1979
6	1998	ALBE X	11	11	.06910	2005 R		1980
6	1998	ALBE X	10	10	.06910	2005 R		1981
6	1998	ALBE X	11	11	.06910	2005 R		1982
6	1998	ALBE X	11	11	.06910	2005 R		1983
6	1998	ALBE X	7	7	.06910	2005		1985
6	1998	ALBE X	293	293	.06910	2005		1986
6	1998	ALBE X	15	0	.08875	2005 R		1987
6	1998	ALBE X	12	12	.06910	2005		1987
6	1998	ALBE X	328	0	.08500	2005 R		1988
6	1998	ALBE X	221	0	.09250	2005 R		1989
6	1998	ALBE X	1287	0	.08875	2005		1990
6	1998	ALBE X	43	0	.08750	2005 R		1991
6	1998	ALBE X	111	0	.08750	2005		1991
6	1998	ALBE X	7	0	.08500	2005 R		1992
6	1998	ALBE X	106	0	.08500	2005		1992
6	1998	ALBE X	714	0	.07875	2005 R		1993
6	1998	ALBE X	295	0	.07875	2005		1993
6	1998	ALBE X	61	0	.07125	2019 R		1994
6	1998	ALBE X	173	0	.07125	2019		1994
6	1998	ALBE X	17	17	.07090	2010		1995
6	1998	ALBE X	51	0	.07890	2010		1995

6	1998	ALBE	X	443	443	.07150	2045	1995
6	1998	ALBE	X	531	531	.07150	2045	1995
6	1998	ALBE	X	1105	1105	.07150	2045	1995
6	1998	ALBE	X	130	130	.07290	2016	1996
6	1998	ALBE	X	477	477	.07150	2047	1997
6	1998	BOIS	X	1249	0	.03000	1962	1912
6	1998	BOIS	X	285	0	.03000	1962	1912
6	1998	BOIS	X	832	0	.03000	1976	1926
6	1998	BOIS	X	190	0	.03000	1976	1926
6	1998	BOIS	X	416	0	.03000	2000	1950
6	1998	BOIS	X	95	0	.03000	2000	1950
6	1998	BOIS	X	1873	0	.03000	2001	1951
6	1998	BOIS	X	428	0	.03000	2001	1951
6	1998	BOIS	X	11	0	.03000	2001 R	1952
6	1998	BOIS	X	3	0	.03000	2001 R	1952
6	1998	BOIS	X	11	0	.03000	2001 R	1953
6	1998	BOIS	X	3	0	.03000	2001 R	1953
6	1998	BOIS	X	11	0	.03000	2001 R	1954
6	1998	BOIS	X	3	0	.03000	2001 R	1954
6	1998	BOIS	X	11	0	.03000	2001 R	1955
6	1998	BOIS	X	3	0	.03000	2001 R	1955
6	1998	BOIS	X	11	0	.03000	2001 R	1956
6	1998	BOIS	X	3	0	.03000	2001 R	1956
6	1998	BOIS	X	11	0	.03000	2001 R	1957
6	1998	BOIS	X	3	0	.03000	2001 R	1957
6	1998	BOIS	X	11	0	.03000	2001 R	1958
6	1998	BOIS	X	3	0	.03000	2001 R	1958
6	1998	BOIS	X	11	0	.03000	2001 R	1959
6	1998	BOIS	X	3	0	.03000	2001 R	1959
6	1998	BOIS	X	11	0	.03000	2001 R	1960
6	1998	BOIS	X	3	0	.03000	2001 R	1960
6	1998	BOIS	X	11	0	.03000	2001 R	1961
6	1998	BOIS	X	3	0	.03000	2001 R	1961
6	1998	BOIS	X	11	0	.03000	2001 R	1962
6	1998	BOIS	X	3	0	.03000	2001 R	1962
6	1998	BOIS	X	11	0	.03000	2001 R	1963
6	1998	BOIS	X	3	0	.03000	2001 R	1963
6	1998	BOIS	X	11	0	.03000	2001 R	1964
6	1998	BOIS	X	3	0	.03000	2001 R	1964
6	1998	BOIS	X	11	0	.03000	2001 R	1965
6	1998	BOIS	X	3	0	.03000	2001 R	1965
6	1998	BOIS	X	11	0	.03000	2001 R	1966
6	1998	BOIS	X	3	0	.03000	2001 R	1966
6	1998	BOIS	X	11	0	.03000	2001 R	1967
6	1998	BOIS	X	3	0	.03000	2001 R	1967
6	1998	BOIS	X	11	0	.03000	2001 R	1968
6	1998	BOIS	X	3	0	.03000	2001 R	1968
6	1998	BOIS	X	11	0	.03000	2001 R	1969
6	1998	BOIS	X	3	0	.03000	2001 R	1969
6	1998	BOIS	X	11	0	.03000	2001 R	1970
6	1998	BOIS	X	3	0	.03000	2001 R	1970
6	1998	BOIS	X	11	0	.03000	2001 R	1971
6	1998	BOIS	X	3	0	.03000	2001 R	1971

6	1998	BOIS X	11	0	.03000	2001 R	1972
6	1998	BOIS X	3	0	.03000	2001 R	1972
6	1998	BOIS X	11	0	.03000	2001 R	1973
6	1998	BOIS X	3	0	.03000	2001 R	1973
6	1998	BOIS X	11	0	.03000	2001 R	1974
6	1998	BOIS X	3	0	.03000	2001 R	1974
6	1998	BOIS X	11	0	.03000	2001 R	1975
6	1998	BOIS X	3	0	.03000	2001 R	1975
6	1998	BOIS X	11	0	.03000	2001 R	1976
6	1998	BOIS X	3	0	.03000	2001 R	1976
6	1998	BOIS X	11	0	.03000	2001 R	1977
6	1998	BOIS X	3	0	.03000	2001 R	1977
6	1998	BOIS X	11	0	.03000	2001 R	1978
6	1998	BOIS X	3	0	.03000	2001 R	1978
6	1998	BOIS X	11	0	.03000	2001 R	1979
6	1998	BOIS X	3	0	.03000	2001 R	1979
6	1998	BOIS X	18	0	.03000	2001 R	1980
6	1998	BOIS X	4	0	.03000	2001 R	1980
6	1998	BOIS X	8	0	.03000	2001 R	1981
6	1998	BOIS X	2	0	.03000	2001 R	1981
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1325	0	.10750	2001 R	1984
6	1998	BOIS X	303	0	.10750	2001 R	1984
6	1998	BOIS X	94	89	.06710	2001	1986
6	1998	BOIS X	3	0	.08500	2001	1988
6	1998	BOIS X	3264	0	.09250	2001 R	1989
6	1998	BOIS X	38	0	.08875	2001 R	1990
6	1998	BOIS X	50	0	.08750	2001 R	1991
6	1998	BOIS X	418	0	.07875	2001	1993
6	1998	BOIS X	7	0	.07125	1999 R	1994
6	1998	BOIS X	450	450	.07150	2046	1996
6	1998	BOIS X	7	7	.06950	2006	1996
6	1998	BOIS X	656	656	.07150	2046	1996
6	1998	BOIS X	9	9	.06950	2007	1997
6	1998	BOIS X	2284	2284	.07150	2047	1997
6	1998	BON2 X	40964	40964	.07150	2031 A	1981
6	1998	BON2 X	455	455	.07150	2031 A	1981
6	1998	BON2 X	203535	203535	.07150	2032 A	1982
6	1998	BON2 X	2264	2264	.07150	2032 A	1982
6	1998	BON2 X	62409	62409	.07150	2033 A	1983
6	1998	BON2 X	694	694	.07150	2033 A	1983
6	1998	BON2 X	9138	9138	.07150	2033 A	1985
6	1998	BON2 X	30578	30578	.07150	2033 A	1986
6	1998	BON2 X	2801	2801	.07150	2033 A	1987
6	1998	BON2 X	1271	1271	.07150	2033 A	1988
6	1998	BON2 X	1232	1232	.07150	2033 A	1989
6	1998	BON2 X	1588	1588	.07150	2033 A	1990
6	1998	BON2 X	3998	0	.08750	2033 A	1991
6	1998	BON2 X	26	0	.08750	2033 R	1991
6	1998	BON2 X	2446	0	.08500	2033 A	1992

6	1998	BON2	X	3668	0	.07875	2033	A	1993
6	1998	BON2	X	5700	5700	.07150	2044	A	1994
6	1998	BON2	X	3791	3791	.07150	2045		1995
6	1998	BON2	X	376	376	.07150	2046		1996
6	1998	BONN	X	11726	0	.02500	1988		1938
6	1998	BONN	X	130	0	.02500	1988		1938
6	1998	BONN	X	17589	0	.02500	1991		1941
6	1998	BONN	X	196	0	.02500	1991		1941
6	1998	BONN	X	5863	0	.02500	1992		1942
6	1998	BONN	X	65	0	.02500	1992		1942
6	1998	BONN	X	17589	0	.02500	1993		1943
6	1998	BONN	X	196	0	.02500	1993		1943
6	1998	BONN	X	5860	0	.02500	1994		1944
6	1998	BONN	X	65	0	.02500	1994		1944
6	1998	BONN	X	82	0	.02500	1994	R	1945
6	1998	BONN	X	1	0	.02500	1994	R	1945
6	1998	BONN	X	81	0	.02500	1994	R	1946
6	1998	BONN	X	1	0	.02500	1994	R	1946
6	1998	BONN	X	82	0	.02500	1994	R	1947
6	1998	BONN	X	1	0	.02500	1994	R	1947
6	1998	BONN	X	81	0	.02500	1994	R	1948
6	1998	BONN	X	1	0	.02500	1994	R	1948
6	1998	BONN	X	82	0	.02500	1994	R	1949
6	1998	BONN	X	1	0	.02500	1994	R	1949
6	1998	BONN	X	81	0	.02500	1994	R	1950
6	1998	BONN	X	11	0	.02500	1994	R	1950
6	1998	BONN	X	81	0	.02500	1994	R	1951
6	1998	BONN	X	11	0	.02500	1994	R	1951
6	1998	BONN	X	82	0	.02500	1994	R	1952
6	1998	BONN	X	1	0	.02500	1994	R	1952
6	1998	BONN	X	81	0	.02500	1994	R	1953
6	1998	BONN	X	1	0	.02500	1994	R	1953
6	1998	BONN	X	82	0	.02500	1994	R	1954
6	1998	BONN	X	1	0	.02500	1994	R	1954
6	1998	BONN	X	81	0	.02500	1994	R	1955
6	1998	BONN	X	1	0	.02500	1994	R	1955
6	1998	BONN	X	81	0	.02500	1994	R	1956
6	1998	BONN	X	1	0	.02500	1994	R	1956
6	1998	BONN	X	82	0	.02500	1994	R	1957
6	1998	BONN	X	1	0	.02500	1994	R	1957
6	1998	BONN	X	81	0	.02500	1994	R	1958
6	1998	BONN	X	1	0	.02500	1994	R	1958
6	1998	BONN	X	82	0	.02500	1994	R	1959
6	1998	BONN	X	1	0	.02500	1994	R	1959
6	1998	BONN	X	81	0	.02500	1994	R	1960
6	1998	BONN	X	1	0	.02500	1994	R	1960
6	1998	BONN	X	81	0	.02500	1994	R	1961
6	1998	BONN	X	1	0	.02500	1994	R	1961
6	1998	BONN	X	82	0	.02500	1994	R	1962
6	1998	BONN	X	1	0	.02500	1994	R	1962
6	1998	BONN	X	81	0	.02500	1994	R	1963
6	1998	BONN	X	1	0	.02500	1994	R	1963
6	1998	BONN	X	82	0	.02500	1994	R	1964

6	1998	BONN	X	1	0	.02500	1994	R	1964
6	1998	BONN	X	81	0	.02500	1994	R	1965
6	1998	BONN	X	1	0	.02500	1994	R	1965
6	1998	BONN	X	81	0	.02500	1994	R	1966
6	1998	BONN	X	1	0	.02500	1994	R	1966
6	1998	BONN	X	82	0	.02500	1994	R	1967
6	1998	BONN	X	1	0	.02500	1994	R	1967
6	1998	BONN	X	81	0	.02500	1994	R	1968
6	1998	BONN	X	1	0	.02500	1994	R	1968
6	1998	BONN	X	82	0	.02500	1994	R	1969
6	1998	BONN	X	1	0	.02500	1994	R	1969
6	1998	BONN	X	81	0	.02500	1994	R	1970
6	1998	BONN	X	1	0	.02500	1994	R	1970
6	1998	BONN	X	81	0	.02500	1994	R	1971
6	1998	BONN	X	1	0	.02500	1994	R	1971
6	1998	BONN	X	82	0	.02500	1994	R	1972
6	1998	BONN	X	1	0	.02500	1994	R	1972
6	1998	BONN	X	81	0	.02500	1994	R	1973
6	1998	BONN	X	1	0	.02500	1994	R	1973
6	1998	BONN	X	82	0	.02500	1994	R	1974
6	1998	BONN	X	1	0	.02500	1994	R	1974
6	1998	BONN	X	81	0	.02500	1994	R	1975
6	1998	BONN	X	1	0	.02500	1994	R	1975
6	1998	BONN	X	81	0	.02500	1994	R	1976
6	1998	BONN	X	1	0	.02500	1994	R	1976
6	1998	BONN	X	15670	15670	.07150	2027	B	1977
6	1998	BONN	X	82	0	.02500	1994	R	1977
6	1998	BONN	X	1	0	.02500	1994	R	1977
6	1998	BONN	X	81	0	.02500	1994	R	1978
6	1998	BONN	X	1	0	.02500	1994	R	1978
6	1998	BONN	X	82	0	.02500	1994	R	1979
6	1998	BONN	X	1	0	.02500	1994	R	1979
6	1998	BONN	X	81	0	.02500	1994	R	1980
6	1998	BONN	X	1	0	.02500	1994	R	1980
6	1998	BONN	X	81	0	.02500	1994	R	1981
6	1998	BONN	X	1	0	.02500	1994	R	1981
6	1998	BONN	X	82	0	.02500	1994	R	1982
6	1998	BONN	X	2	0	.02500	1994	R	1982
6	1998	BONN	X	81	0	.02500	1994	R	1983
6	1998	BONN	X	1	0	.02500	1994	R	1983
6	1998	BONN	X	873	0	.10750	1994	R	1984
6	1998	BONN	X	10	0	.10750	1994	R	1984
6	1998	BONN	X	119	0	.02500	1994		1985
6	1998	BONN	X	454	0	.11375	1994	R	1986
6	1998	BONN	X	555	0	.02500	1994		1986
6	1998	BONN	X	26	0	.08875	1994	R	1987
6	1998	BONN	X	260	0	.02500	1994		1987
6	1998	BONN	X	4199	0	.08500	1994		1988
6	1998	BONN	X	10	0	.08500	1994	R	1988
6	1998	BONN	X	877	0	.09250	1994	R	1989
6	1998	BONN	X	519	0	.08875	1994	R	1990
6	1998	BONN	X	651	0	.08875	1994	A	1990
6	1998	BONN	X	35	0	.08750	1994	R	1991

6	1998	BONN	X	3193	0	.08750	1994		1991
6	1998	BONN	X	99	0	.08500	1994	R	1992
6	1998	BONN	X	25	0	.08500	1994		1992
6	1998	BONN	X	5011	0	.07875	2018		1993
6	1998	BONN	X	536	0	.07125	2029	A	1994
6	1998	BONN	X	8	0	.07330	2000		1995
6	1998	BONN	X	20	20	.07250	2020		1995
6	1998	BONN	X	22	22	.07250	2020	R	1995
6	1998	BONN	X	25	25	.07090	2010	R	1995
6	1998	BONN	X	53	0	.07860	2030		1995
6	1998	BONN	X	98	0	.07860	2035		1995
6	1998	BONN	X	327	243	.07150	2045		1995
6	1998	BONN	X	410	410	.07150	2045	R	1995
6	1998	BONN	X	374	0	.07860	2045	R	1995
6	1998	BONN	X	440	440	.07150	2045	R	1995
6	1998	BONN	X	18	18	.07150	2046		1996
6	1998	BONN	X	18	18	.07150	2046		1996
6	1998	BONN	X	22	22	.07150	2031		1996
6	1998	BONN	X	80	80	.07150	2046		1996
6	1998	BONN	X	109	109	.07150	2046		1996
6	1998	BONN	X	142	142	.07150	2046		1996
6	1998	BONN	X	223	223	.07150	2046		1996
6	1998	BONN	X	751	751	.07150	2046		1996
6	1998	BONN	X	834	834	.07290	2016	R	1996
6	1998	BONN	X	1322	1322	.07150	2046	R	1996
6	1998	BONN	X	122	122	.07230	2022		1997
6	1998	BONN	X	518	518	.07150	2032		1997
6	1998	BONN	X	161	161	.07150	2047		1997
6	1999	BONN	X	29984	29984	.05325	2044		1999
6	1998	CHIE	X	28313	2262	.06910	2005		1955
6	1998	CHIE	X	13643	13643	.06950	2006		1956
6	1998	CHIE	X	39586	39586	.06980	2007		1957
6	1998	CHIE	X	31901	31901	.07020	2008		1958
6	1998	CHIE	X	223	223	.07020	2008	R	1959
6	1998	CHIE	X	223	223	.07020	2008	R	1960
6	1998	CHIE	X	223	223	.07020	2008	R	1961
6	1998	CHIE	X	223	223	.07020	2008	R	1962
6	1998	CHIE	X	224	224	.07020	2008	R	1963
6	1998	CHIE	X	223	223	.07020	2008	R	1964
6	1998	CHIE	X	223	223	.07020	2008	R	1965
6	1998	CHIE	X	223	223	.07020	2008	R	1966
6	1998	CHIE	X	223	223	.07020	2008	R	1967
6	1998	CHIE	X	224	224	.07020	2008	R	1968
6	1998	CHIE	X	223	223	.07020	2008	R	1969
6	1998	CHIE	X	223	223	.07020	2008	R	1970
6	1998	CHIE	X	223	223	.07020	2008	R	1971
6	1998	CHIE	X	223	223	.07020	2008	R	1972
6	1998	CHIE	X	224	224	.07020	2008	R	1973
6	1998	CHIE	X	223	223	.07020	2008	R	1974
6	1998	CHIE	X	223	223	.07020	2008	R	1975
6	1998	CHIE	X	223	223	.07020	2008	R	1976
6	1998	CHIE	X	30512	30512	.07150	2027	A	1977
6	1998	CHIE	X	223	223	.07020	2008	R	1977

6	1998	CHIE X	75669	75669	.07150	2028 A	1978
6	1998	CHIE X	224	224	.07020	2008 R	1978
6	1998	CHIE X	60079	60079	.07150	2029 A	1979
6	1998	CHIE X	223	223	.07020	2008 R	1979
6	1998	CHIE X	223	223	.07020	2008 R	1980
6	1998	CHIE X	223	223	.07020	2008 R	1981
6	1998	CHIE X	223	223	.07020	2008 R	1982
6	1998	CHIE X	224	224	.07020	2008 R	1983
6	1998	CHIE X	909	0	.10750	2008 R	1984
6	1998	CHIE X	16372	16372	.07150	2029 A	1985
6	1998	CHIE X	46	46	.07020	2008	1985
6	1998	CHIE X	5363	5363	.07150	2029 A	1986
6	1998	CHIE X	104	0	.08875	2008 R	1987
6	1998	CHIE X	3036	3036	.07150	2029 A	1987
6	1998	CHIE X	2722	2722	.07150	2029 A	1988
6	1998	CHIE X	327	0	.09250	2008 R	1989
6	1998	CHIE X	2227	2227	.07150	2029 A	1989
6	1998	CHIE X	4505	4505	.07150	2029	1990
6	1998	CHIE X	1024	0	.08875	2008 A	1990
6	1998	CHIE X	3840	0	.08750	2029 A	1991
6	1998	CHIE X	34	0	.08750	2008 R	1991
6	1998	CHIE X	293	0	.08750	2008	1991
6	1998	CHIE X	2032	0	.08500	2029 A	1992
6	1998	CHIE X	142	0	.08500	2008 R	1992
6	1998	CHIE X	717	0	.08500	2008	1992
6	1998	CHIE X	42	0	.07875	2008 R	1993
6	1998	CHIE X	794	0	.07875	2008	1993
6	1998	CHIE X	1360	0	.07875	2029 A	1993
6	1998	CHIE X	129	0	.07125	2029	1994
6	1998	CHIE X	65	0	.07125	2029 R	1994
6	1998	CHIE X	4280	4017	.07150	2044 A	1994
6	1998	CHIE X	15	15	.07090	2010	1995
6	1998	CHIE X	147	147	.07150	2045	1995
6	1998	CHIE X	562	562	.07150	2045	1995
6	1998	CHIE X	712	712	.07150	2045 R	1995
6	1998	CHIE X	784	784	.07150	2045	1995
6	1998	CHIE X	3	3	.07150	2046 R	1996
6	1998	CHIE X	4	4	.07150	2046 R	1996
6	1998	CHIE X	27	27	.07150	2031 R	1996
6	1998	CHIE X	355	355	.07150	2046	1996
6	1998	CHIE X	729	729	.07150	2046	1996
6	1998	CHIE X	166	166	.07150	2032	1997
6	1998	CHIE X	657	657	.07150	2047	1997
6	1998	COL3 X	47328	36690	.07160	2025 A	1975
6	1998	COL3 X	8702	7435	.07160	2025 A	1975
6	1998	COL3 X	41330	41330	.07150	2026 A	1976
6	1998	COL3 X	8037	8037	.07150	2026 A	1976
6	1998	COL3 X	42764	42764	.07150	2027 A	1977
6	1998	COL3 X	7964	7964	.07150	2027 A	1977
6	1998	COL3 X	42399	42399	.07150	2028 A	1978
6	1998	COL3 X	7896	7896	.07150	2028 A	1978
6	1998	COL3 X	84118	84118	.07150	2029 A	1979
6	1998	COL3 X	15666	15666	.07150	2029 A	1979

6	1998	COL3	X	712	712	.07150	2033	B	1983
6	1998	COL3	X	13003	13003	.07150	2033	A	1983
6	1998	COL3	X	16965	16965	.07150	2033	A	1984
6	1998	COL3	X	13192	13192	.07150	2033	A	1984
6	1998	COL3	X	3160	3160	.07150	2033	A	1984
6	1998	COL3	X	41772	41772	.07150	2033	A	1985
6	1998	COL3	X	107	107	.07150	2033		1985
6	1998	COL3	X	2060	2060	.07150	2033		1985
6	1998	COL3	X	15538	15538	.07150	2033	A	1986
6	1998	COL3	X	1851	1851	.07150	2033	A	1986
6	1998	COL3	X	14439	14439	.07150	2033	A	1987
6	1998	COL3	X	1730	1730	.07150	2033	A	1987
6	1998	COL3	X	4351	4351	.07150	2033	A	1988
6	1998	COL3	X	2294	2294	.07150	2033	A	1988
6	1998	COL3	X	10902	10902	.07150	2033	A	1989
6	1998	COL3	X	6383	6383	.07150	2033	A	1990
6	1998	COL3	X	39	0	.08750	2033	A	1991
6	1998	COL3	X	1360	0	.08500	2033	A	1992
6	1998	COL3	X	12962	0	.07875	2033	A	1993
6	1998	COL3	X	12631	12631	.07150	2044	A	1994
6	1998	COLU	X	10919	0	.03000	1991		1941
6	1998	COLU	X	1505	0	.03000	1991		1941
6	1998	COLU	X	16165	0	.03000	1992		1942
6	1998	COLU	X	3011	0	.03000	1992		1942
6	1998	COLU	X	8083	0	.03000	1993		1943
6	1998	COLU	X	1505	0	.03000	1993		1943
6	1998	COLU	X	16165	0	.03000	1994		1944
6	1998	COLU	X	3011	0	.03000	1994		1944
6	1998	COLU	X	24247	0	.03000	1998		1948
6	1998	COLU	X	4516	0	.03000	1998		1948
6	1998	COLU	X	24247	0	.03000	1999		1949
6	1998	COLU	X	4516	0	.03000	1999		1949
6	1998	COLU	X	16165	0	.03000	2000		1950
6	1998	COLU	X	3011	0	.03000	2000		1950
6	1998	COLU	X	28255	7719	.06710	2001		1951
6	1998	COLU	X	5790	1437	.06710	2001		1951
6	1998	COLU	X	258	258	.06710	2001	R	1952
6	1998	COLU	X	48	48	.06710	2001	R	1952
6	1998	COLU	X	258	258	.06710	2001	R	1953
6	1998	COLU	X	48	48	.06710	2001	R	1953
6	1998	COLU	X	258	258	.06710	2001	R	1954
6	1998	COLU	X	48	48	.06710	2001	R	1954
6	1998	COLU	X	258	258	.06710	2001	R	1955
6	1998	COLU	X	48	48	.06710	2001	R	1955
6	1998	COLU	X	259	259	.06710	2001	R	1956
6	1998	COLU	X	48	48	.06710	2001	R	1956
6	1998	COLU	X	258	258	.06710	2001	R	1957
6	1998	COLU	X	48	48	.06710	2001	R	1957
6	1998	COLU	X	258	258	.06710	2001	R	1958
6	1998	COLU	X	48	48	.06710	2001	R	1958
6	1998	COLU	X	258	258	.06710	2001	R	1959
6	1998	COLU	X	48	48	.06710	2001	R	1959
6	1998	COLU	X	258	258	.06710	2001	R	1960

6	1998	COLU X	48	48	.06710	2001 R	1960
6	1998	COLU X	259	259	.06710	2001 R	1961
6	1998	COLU X	48	48	.06710	2001 R	1961
6	1998	COLU X	258	258	.06710	2001 R	1962
6	1998	COLU X	48	48	.06710	2001 R	1962
6	1998	COLU X	258	258	.06710	2001 R	1963
6	1998	COLU X	48	48	.06710	2001 R	1963
6	1998	COLU X	258	258	.06710	2001 R	1964
6	1998	COLU X	48	48	.06710	2001 R	1964
6	1998	COLU X	258	258	.06710	2001 R	1965
6	1998	COLU X	48	48	.06710	2001 R	1965
6	1998	COLU X	259	258	.06710	2001 R	1966
6	1998	COLU X	48	48	.06710	2001 R	1966
6	1998	COLU X	258	258	.06710	2001 R	1967
6	1998	COLU X	758	758	.07290	2017 B	1967
6	1998	COLU X	48	48	.06710	2001 R	1967
6	1998	COLU X	258	258	.06710	2001 R	1968
6	1998	COLU X	48	48	.06710	2001 R	1968
6	1998	COLU X	258	258	.06710	2001 R	1969
6	1998	COLU X	48	48	.06710	2001 R	1969
6	1998	COLU X	258	258	.06710	2001 R	1970
6	1998	COLU X	48	48	.06710	2001 R	1970
6	1998	COLU X	259	259	.06710	2001 R	1971
6	1998	COLU X	48	48	.06710	2001 R	1971
6	1998	COLU X	258	258	.06710	2001 R	1972
6	1998	COLU X	48	48	.06710	2001 R	1972
6	1998	COLU X	258	258	.06710	2001 R	1973
6	1998	COLU X	48	48	.06710	2001 R	1973
6	1998	COLU X	258	258	.06710	2001 R	1974
6	1998	COLU X	48	48	.06710	2001 R	1974
6	1998	COLU X	258	258	.06710	2001 R	1975
6	1998	COLU X	48	48	.06710	2001 R	1975
6	1998	COLU X	259	259	.06710	2001 R	1976
6	1998	COLU X	48	48	.06710	2001 R	1976
6	1998	COLU X	258	258	.06710	2001 R	1977
6	1998	COLU X	48	48	.06710	2001 R	1977
6	1998	COLU X	258	258	.06710	2001 R	1978
6	1998	COLU X	48	48	.06710	2001 R	1978
6	1998	COLU X	258	258	.06710	2001 R	1979
6	1998	COLU X	48	48	.06710	2001 R	1979
6	1998	COLU X	258	258	.06710	2001 R	1980
6	1998	COLU X	48	48	.06710	2001 R	1980
6	1998	COLU X	259	259	.06710	2001 R	1981
6	1998	COLU X	48	48	.06710	2001 R	1981
6	1998	COLU X	258	258	.06710	2001 R	1982
6	1998	COLU X	48	48	.06710	2001 R	1982
6	1998	COLU X	258	258	.06710	2001 R	1983
6	1998	COLU X	48	48	.06710	2001 R	1983
6	1998	COLU X	7815	0	.10750	2001 R	1984
6	1998	COLU X	1455	0	.10750	2001 R	1984
6	1998	COLU X	7338	0	.12375	2001 R	1985
6	1998	COLU X	236	236	.06710	2001	1985
6	1998	COLU X	362	0	.12375	2001	1985

6	1998	COLU X	11	11	.06710	2001	1985
6	1998	COLU X	127	127	.06710	2001	1986
6	1998	COLU X	13	13	.06710	2001	1987
6	1998	COLU X	184	0	.08500	2001 R	1988
6	1998	COLU X	2	0	.08500	2001 R	1988
6	1998	COLU X	1166	0	.09250	2001 R	1989
6	1998	COLU X	928	0	.08875	2001 R	1990
6	1998	COLU X	177	0	.08750	2001	1991
6	1998	COLU X	1661	0	.08750	2001 R	1991
6	1998	COLU X	445	0	.08500	2001 R	1992
6	1998	COLU X	652	0	.08500	2001 R	1992
6	1998	COLU X	795	45	.06710	2001	1993
6	1998	COLU X	20	0	.07860	2030	1995
6	1998	COLU X	25	25	.07150	2030	1995
6	1998	COLU X	25	25	.06620	2000	1995
6	1998	COLU X	206	0	.07250	2020	1995
6	1998	COLU X	270	0	.07860	2030	1995
6	1998	COLU X	321	0	.07860	2030 R	1995
6	1998	COLU X	323	0	.07860	2030 R	1995
6	1998	COLU X	450	0	.07860	2045 R	1995
6	1998	COLU X	292	292	.07150	2045 R	1995
6	1998	COLU X	2511	2453	.07150	2045	1995
6	1998	COLU X	76	76	.07150	2026	1996
6	1998	COLU X	109	109	.07150	2031	1996
6	1998	COLU X	251	251	.07150	2031	1996
6	1998	COLU X	426	426	.07150	2046	1996
6	1998	COLU X	368	368	.07150	2046	1996
6	1998	COLU X	3393	3393	.07150	2047	1997
6	1998	COUG X	10414	9042	.07230	2014	1964
6	1998	COUG X	20	20	.07230	2014 R	1965
6	1998	COUG X	20	20	.07230	2014 R	1966
6	1998	COUG X	20	20	.07230	2014 R	1967
6	1998	COUG X	20	20	.07230	2014 R	1968
6	1998	COUG X	20	20	.07230	2014 R	1969
6	1998	COUG X	20	20	.07230	2014 R	1970
6	1998	COUG X	20	20	.07230	2014 R	1971
6	1998	COUG X	20	20	.07230	2014 R	1972
6	1998	COUG X	20	20	.07230	2014 R	1973
6	1998	COUG X	19	19	.07230	2014 R	1974
6	1998	COUG X	20	20	.07230	2014 R	1975
6	1998	COUG X	20	20	.07230	2014 R	1976
6	1998	COUG X	20	20	.07230	2014 R	1977
6	1998	COUG X	20	20	.07230	2014 R	1978
6	1998	COUG X	20	20	.07230	2014 R	1979
6	1998	COUG X	20	20	.07230	2014 R	1980
6	1998	COUG X	20	20	.07230	2014 R	1981
6	1998	COUG X	20	20	.07230	2014 R	1982
6	1998	COUG X	20	20	.07230	2014 R	1983
6	1998	COUG X	1	0	.10750	2014 R	1984
6	1998	COUG X	1	1	.07230	2014	1985
6	1998	COUG X	55	0	.11375	2014 R	1986
6	1998	COUG X	104	104	.07230	2014	1986
6	1998	COUG X	45	45	.07230	2014	1987

6	1998	COUG X	2	0	.08500	2014	1988
6	1998	COUG X	6	0	.09250	2014 R	1989
6	1998	COUG X	10	0	.08875	2014 R	1990
6	1998	COUG X	1015	0	.08750	2014 R	1991
6	1998	COUG X	1	0	.08750	2014	1991
6	1998	COUG X	2	0	.08500	2014 R	1992
6	1998	COUG X	539	0	.07875	2014	1993
6	1998	COUG X	31	0	.07125	2019 A	1994
6	1998	COUG X	3	0	.07330	2000	1995
6	1998	COUG X	26	26	.07150	2047	1997
6	1998	CRFB X	3969	0	.08500	2041	1991
6	1998	CRFB X	874	0	.08500	2042	1992
6	1998	CRFB X	85846	0	.08500	2043	1993
6	1998	CRFB X	39454	0	.08500	2044	1994
6	1998	CRFB X	43343	703	.07150	2045	1995
6	1998	CRFB X	42357	42357	.07150	2046	1996
6	1999	CRFB X	20689	20689	.05325	2049	1999
6	1998	DETR X	12533	3078	.06840	2003	1953
6	1998	DETR X	20162	20162	.06880	2004	1954
6	1998	DETR X	18	18	.06880	2004 R	1955
6	1998	DETR X	19	19	.06880	2004 R	1956
6	1998	DETR X	18	18	.06880	2004 R	1957
6	1998	DETR X	19	19	.06880	2004 R	1958
6	1998	DETR X	18	18	.06880	2004 R	1959
6	1998	DETR X	19	19	.06880	2004 R	1960
6	1998	DETR X	18	18	.06880	2004 R	1961
6	1998	DETR X	19	19	.06880	2004 R	1962
6	1998	DETR X	18	18	.06880	2004 R	1963
6	1998	DETR X	19	19	.06880	2004 R	1964
6	1998	DETR X	18	18	.06880	2004 R	1965
6	1998	DETR X	19	19	.06880	2004 R	1966
6	1998	DETR X	18	18	.06880	2004 R	1967
6	1998	DETR X	19	19	.06880	2004 R	1968
6	1998	DETR X	18	18	.06880	2004 R	1969
6	1998	DETR X	19	19	.06880	2004 R	1970
6	1998	DETR X	18	18	.06880	2004 R	1971
6	1998	DETR X	19	19	.06880	2004 R	1972
6	1998	DETR X	18	18	.06880	2004 R	1973
6	1998	DETR X	19	19	.06880	2004 R	1974
6	1998	DETR X	18	18	.06880	2004 R	1975
6	1998	DETR X	19	19	.06880	2004 R	1976
6	1998	DETR X	18	18	.06880	2004 R	1977
6	1998	DETR X	19	19	.06880	2004 R	1978
6	1998	DETR X	18	18	.06880	2004 R	1979
6	1998	DETR X	19	19	.06880	2004 R	1980
6	1998	DETR X	18	18	.06880	2004 R	1981
6	1998	DETR X	19	19	.06880	2004 R	1982
6	1998	DETR X	18	18	.06880	2004 R	1983
6	1998	DETR X	21	0	.10750	2004 R	1984
6	1998	DETR X	6	6	.06880	2004	1985
6	1998	DETR X	38	0	.11375	2004 R	1986
6	1998	DETR X	233	0	.08875	2004 R	1987
6	1998	DETR X	3	3	.06880	2004	1987

6	1998	DETR	X	68	0	.08500	2004	R	1988
6	1998	DETR	X	26	0	.09250	2004	R	1989
6	1998	DETR	X	115	0	.08875	2004		1990
6	1998	DETR	X	9	0	.08750	2004	R	1991
6	1998	DETR	X	20	0	.08750	2004		1991
6	1998	DETR	X	8	0	.08500	2004		1992
6	1998	DETR	X	211	0	.07875	2004		1993
6	1998	DETR	X	7	0	.07125	1999	R	1994
6	1998	DETR	X	38	38	.07150	2045		1995
6	1998	DETR	X	13	0	.07330	2000		1995
6	1998	DETR	X	24	24	.06950	2006		1996
6	1998	DWOR	X	138443	132996	.07190	2023		1973
6	1998	DWOR	X	836	803	.07190	2023		1973
6	1998	DWOR	X	515	515	.07190	2023	R	1974
6	1998	DWOR	X	3	3	.07190	2023	R	1974
6	1998	DWOR	X	518	518	.07190	2023	R	1975
6	1998	DWOR	X	3	3	.07190	2023	R	1975
6	1998	DWOR	X	518	518	.07190	2023	R	1976
6	1998	DWOR	X	3	3	.07190	2023	R	1976
6	1998	DWOR	X	518	518	.07190	2023	R	1977
6	1998	DWOR	X	3	3	.07190	2023	R	1977
6	1998	DWOR	X	518	518	.07190	2023	R	1978
6	1998	DWOR	X	3	3	.07190	2023	R	1978
6	1998	DWOR	X	518	518	.07190	2023	R	1979
6	1998	DWOR	X	3	3	.07190	2023	R	1979
6	1998	DWOR	X	518	518	.07190	2023	R	1980
6	1998	DWOR	X	3	3	.07190	2023	R	1980
6	1998	DWOR	X	518	518	.07190	2023	R	1981
6	1998	DWOR	X	3	3	.07190	2023	R	1981
6	1998	DWOR	X	518	518	.07190	2023	R	1982
6	1998	DWOR	X	3	3	.07190	2023	R	1982
6	1998	DWOR	X	523	523	.07190	2023	R	1983
6	1998	DWOR	X	3	3	.07190	2023	R	1983
6	1998	DWOR	X	2499	0	.10750	2023	R	1984
6	1998	DWOR	X	15	0	.10750	2023	R	1984
6	1998	DWOR	X	1141	1141	.07190	2023		1985
6	1998	DWOR	X	197	197	.07190	2023		1986
6	1998	DWOR	X	65	0	.08875	2023	R	1987
6	1998	DWOR	X	30	5	.07190	2023		1987
6	1998	DWOR	X	61	0	.08500	2023	R	1988
6	1998	DWOR	X	63	0	.09250	2023	R	1989
6	1998	DWOR	X	245	0	.08875	2023	R	1990
6	1998	DWOR	X	24	0	.08875	2023		1990
6	1998	DWOR	X	224	0	.08750	2023		1991
6	1998	DWOR	X	4	0	.02625	2023		1992
6	1998	DWOR	X	28	0	.08500	2023	R	1992
6	1998	DWOR	X	24	0	.08500	2023		1992
6	1998	DWOR	X	41	0	.07875	2023	R	1993
6	1998	DWOR	X	1872	0	.07875	2023		1993
6	1998	DWOR	X	1351	0	.07125	2029	R	1994
6	1998	DWOR	X	964	0	.07125	2029	A	1994
6	1998	DWOR	X	55	0	.07930	2020		1995
6	1998	DWOR	X	218	218	.07150	2030		1995

6	1998	DWOR	X	1162	1162	.07150	2045	1995
6	1998	DWOR	X	3	3	.07150	2046	1996
6	1998	DWOR	X	4	4	.07150	2046	1996
6	1998	DWOR	X	6	6	.07150	2031	1996
6	1998	DWOR	X	26	26	.07230	2021	1996
6	1998	DWOR	X	46	46	.07150	2046	1996
6	1998	DWOR	X	107	107	.07130	2011	1996
6	1998	DWOR	X	184	184	.07230	2021	1996
6	1998	DWOR	X	203	203	.07150	2031	1996
6	1998	DWOR	X	7588	7588	.07150	2047	1997
6	1998	GREE	X	12892	11919	.07290	2017	1967
6	1998	GREE	X	12180	12180	.07280	2018	1968
6	1998	GREE	X	39	39	.07280	2018	R 1969
6	1998	GREE	X	40	40	.07280	2018	R 1970
6	1998	GREE	X	39	39	.07280	2018	R 1971
6	1998	GREE	X	39	39	.07280	2018	R 1972
6	1998	GREE	X	39	39	.07280	2018	R 1973
6	1998	GREE	X	39	39	.07280	2018	R 1974
6	1998	GREE	X	39	39	.07280	2018	R 1975
6	1998	GREE	X	39	39	.07280	2018	R 1976
6	1998	GREE	X	39	39	.07280	2018	R 1977
6	1998	GREE	X	39	39	.07280	2018	R 1978
6	1998	GREE	X	39	39	.07280	2018	R 1979
6	1998	GREE	X	40	40	.07280	2018	R 1980
6	1998	GREE	X	39	39	.07280	2018	R 1981
6	1998	GREE	X	39	39	.07280	2018	R 1982
6	1998	GREE	X	39	39	.07280	2018	R 1983
6	1998	GREE	X	15	0	.10750	2018	R 1984
6	1998	GREE	X	16	16	.07280	2018	1985
6	1998	GREE	X	3	0	.11375	2018	R 1986
6	1998	GREE	X	3	3	.07280	2018	1986
6	1998	GREE	X	2	0	.08875	2018	R 1987
6	1998	GREE	X	1	1	.07280	2018	1987
6	1998	GREE	X	13	0	.08500	2018	1988
6	1998	GREE	X	24	0	.09250	2018	R 1989
6	1998	GREE	X	5	0	.08875	2018	1990
6	1998	GREE	X	48	0	.08750	2018	1991
6	1998	GREE	X	2	0	.08500	2018	1992
6	1998	GREE	X	41	0	.07875	2018	1993
6	1998	GREE	X	6	0	.07125	1999	A 1994
6	1998	GREE	X	4	0	.07330	2000	1995
6	1998	GREE	X	11	11	.07250	2020	1995
6	1998	GREE	X	24	24	.07250	2020	1995
6	1998	GREE	X	26	26	.07150	2046	1996
6	1998	HILL	X	10353	9264	.07160	2012	1962
6	1998	HILL	X	12	12	.07160	2012	R 1963
6	1998	HILL	X	13	13	.07160	2012	R 1964
6	1998	HILL	X	13	13	.07160	2012	R 1965
6	1998	HILL	X	13	13	.07160	2012	R 1966
6	1998	HILL	X	13	13	.07160	2012	R 1967
6	1998	HILL	X	13	13	.07160	2012	R 1968
6	1998	HILL	X	13	13	.07160	2012	R 1969
6	1998	HILL	X	13	13	.07160	2012	R 1970

6	1998	HILL X	13	13	.07160	2012 R	1971
6	1998	HILL X	13	13	.07160	2012 R	1972
6	1998	HILL X	13	13	.07160	2012 R	1973
6	1998	HILL X	13	13	.07160	2012 R	1974
6	1998	HILL X	13	13	.07160	2012 R	1975
6	1998	HILL X	13	13	.07160	2012 R	1976
6	1998	HILL X	13	13	.07160	2012 R	1977
6	1998	HILL X	13	13	.07160	2012 R	1978
6	1998	HILL X	13	13	.07160	2012 R	1979
6	1998	HILL X	13	13	.07160	2012 R	1980
6	1998	HILL X	13	13	.07160	2012 R	1981
6	1998	HILL X	13	13	.07160	2012 R	1982
6	1998	HILL X	13	13	.07160	2012 R	1983
6	1998	HILL X	52	0	.10750	2012 R	1984
6	1998	HILL X	6	6	.07160	2012	1985
6	1998	HILL X	3	0	.08875	2012 R	1987
6	1998	HILL X	3	0	.08500	2012 R	1988
6	1998	HILL X	3	0	.08875	2012	1990
6	1998	HILL X	17	0	.08750	2012	1991
6	1998	HILL X	1	0	.08500	2012	1992
6	1998	HILL X	13	0	.07875	2012	1993
6	1998	HILL X	28	28	.07150	2046	1996
6	1998	HUNG X	71160	16359	.06840	2003	1953
6	1998	HUNG X	2126	490	.06840	2003	1953
6	1998	HUNG X	17	17	.06840	2003 R	1954
6	1998	HUNG X	1	1	.06840	2003 R	1954
6	1998	HUNG X	17	17	.06840	2003 R	1955
6	1998	HUNG X	1	1	.06840	2003 R	1955
6	1998	HUNG X	17	17	.06840	2003 R	1956
6	1998	HUNG X	1	1	.06840	2003 R	1956
6	1998	HUNG X	18	18	.06840	2003 R	1957
6	1998	HUNG X	1	1	.06840	2003 R	1957
6	1998	HUNG X	18	18	.06840	2003 R	1958
6	1998	HUNG X	1	1	.06840	2003 R	1958
6	1998	HUNG X	18	18	.06840	2003 R	1959
6	1998	HUNG X	1	1	.06840	2003 R	1959
6	1998	HUNG X	18	18	.06840	2003 R	1960
6	1998	HUNG X	1	1	.06840	2003 R	1960
6	1998	HUNG X	18	18	.06840	2003 R	1961
6	1998	HUNG X	1	1	.06840	2003 R	1961
6	1998	HUNG X	18	18	.06840	2003 R	1962
6	1998	HUNG X	1	1	.06840	2003 R	1962
6	1998	HUNG X	18	18	.06840	2003 R	1963
6	1998	HUNG X	1	1	.06840	2003 R	1963
6	1998	HUNG X	17	17	.06840	2003 R	1964
6	1998	HUNG X	1	1	.06840	2003 R	1964
6	1998	HUNG X	17	17	.06840	2003 R	1965
6	1998	HUNG X	1	1	.06840	2003 R	1965
6	1998	HUNG X	17	17	.06840	2003 R	1966
6	1998	HUNG X	1	1	.06840	2003 R	1966
6	1998	HUNG X	18	18	.06840	2003 R	1967
6	1998	HUNG X	1	1	.06840	2003 R	1967
6	1998	HUNG X	18	18	.06840	2003 R	1968

6	1998	HUNG X	1	1	.06840	2003 R	1968
6	1998	HUNG X	18	18	.06840	2003 R	1969
6	1998	HUNG X	1	1	.06840	2003 R	1969
6	1998	HUNG X	18	18	.06840	2003 R	1970
6	1998	HUNG X	1	1	.06840	2003 R	1970
6	1998	HUNG X	18	18	.06840	2003 R	1971
6	1998	HUNG X	1	1	.06840	2003 R	1971
6	1998	HUNG X	18	18	.06840	2003 R	1972
6	1998	HUNG X	1	1	.06840	2003 R	1972
6	1998	HUNG X	18	18	.06840	2003 R	1973
6	1998	HUNG X	1	1	.06840	2003 R	1973
6	1998	HUNG X	17	17	.06840	2003 R	1974
6	1998	HUNG X	1	1	.06840	2003 R	1974
6	1998	HUNG X	17	17	.06840	2003 R	1975
6	1998	HUNG X	1	1	.06840	2003 R	1975
6	1998	HUNG X	10	10	.06840	2003 R	1976
6	1998	HUNG X	1	1	.06840	2003 R	1976
6	1998	HUNG X	18	18	.06840	2003 R	1977
6	1998	HUNG X	1	1	.06840	2003 R	1977
6	1998	HUNG X	18	18	.06840	2003 R	1978
6	1998	HUNG X	1	1	.06840	2003 R	1978
6	1998	HUNG X	18	18	.06840	2003 R	1979
6	1998	HUNG X	1	1	.06840	2003 R	1979
6	1998	HUNG X	18	18	.06840	2003 R	1980
6	1998	HUNG X	1	1	.06840	2003 R	1980
6	1998	HUNG X	22	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1982
6	1998	HUNG X	12	12	.06840	2003 R	1983
6	1998	HUNG X	1	1	.06840	2003 R	1983
6	1998	HUNG X	32	0	.10750	2003 R	1984
6	1998	HUNG X	1	0	.10750	2003 R	1984
6	1998	HUNG X	36	0	.12375	2003 R	1985
6	1998	HUNG X	37	0	.12375	2003 R	1985
6	1998	HUNG X	101	0	.09250	2003 R	1989
6	1998	HUNG X	58	0	.08875	2003 R	1990
6	1998	HUNG X	19	0	.08750	2003 R	1991
6	1998	HUNG X	9	0	.08500	2003	1992
6	1998	HUNG X	4136	0	.07875	2003 R	1993
6	1998	HUNG X	2	0	.07875	2003	1993
6	1998	HUNG X	56	0	.07125	2019 R	1994
6	1998	HUNG X	156	6	.06620	2000 R	1995
6	1998	HUNG X	450	0	.07930	2020 R	1995
6	1998	HUNG X	536	536	.07150	2030 R	1995
6	1998	HUNG X	1198	1195	.07150	2030 R	1995
6	1998	HUNG X	6190	6190	.07150	2045	1995
6	1998	HUNG X	84	84	.06620	2000	1995
6	1998	HUNG X	14354	0	.07860	2045	1995
6	1998	HUNG X	15	15	.07150	2046	1996
6	1998	HUNG X	2	2	.07150	2046	1996
6	1998	HUNG X	154	154	.06950	2007	1997
6	1998	HUNG X	216	216	.07150	2047	1997
6	1998	ICEH X	59669	44308	.07160	2012	1962

6	1996	ICEH X	664	493	.07160	2012	1962
6	1998	ICEH X	46	46	.07160	2012 R	1963
6	1998	ICEH X	1	1	.07160	2012 R	1963
6	1998	ICEH X	46	46	.07160	2012 R	1964
6	1998	ICEH X	1	1	.07160	2012 R	1964
6	1998	ICEH X	46	46	.07160	2012 R	1965
6	1998	ICEH X	1	1	.07160	2012 R	1965
6	1998	ICEH X	46	46	.07160	2012 R	1966
6	1998	ICEH X	1	1	.07160	2012 R	1966
6	1998	ICEH X	46	46	.07160	2012 R	1967
6	1998	ICEH X	1	1	.07160	2012 R	1967
6	1998	ICEH X	46	46	.07160	2012 R	1968
6	1998	ICEH X	1	1	.07160	2012 R	1968
6	1998	ICEH X	46	46	.07160	2012 R	1969
6	1998	ICEH X	1	1	.07160	2012 R	1969
6	1998	ICEH X	46	46	.07160	2012 R	1970
6	1998	ICEH X	1	1	.07160	2012 R	1970
6	1998	ICEH X	46	46	.07160	2012 R	1971
6	1998	ICEH X	1	1	.07160	2012 R	1971
6	1998	ICEH X	46	46	.07160	2012 R	1972
6	1998	ICEH X	1	1	.07160	2012 R	1972
6	1998	ICEH X	46	46	.07160	2012 R	1973
6	1998	ICEH X	1	1	.07160	2012 R	1973
6	1998	ICEH X	46	46	.07160	2012 R	1974
6	1998	ICEH X	1	1	.07160	2012 R	1974
6	1998	ICEH X	46	46	.07160	2012 R	1975
6	1998	ICEH X	1	1	.07160	2012 R	1975
6	1998	ICEH X	20472	20472	.07150	2026 A	1976
6	1998	ICEH X	46	46	.07160	2012 R	1976
6	1998	ICEH X	228	228	.07150	2026 A	1976
6	1998	ICEH X	1	1	.07160	2012 R	1976
6	1998	ICEH X	46	46	.07160	2012 R	1977
6	1998	ICEH X	1	1	.07160	2012 R	1977
6	1998	ICEH X	46	46	.07160	2012 R	1978
6	1998	ICEH X	1	1	.07160	2012 R	1978
6	1998	ICEH X	46	46	.07160	2012 R	1979
6	1998	ICEH X	1	1	.07160	2012 R	1979
6	1998	ICEH X	46	46	.07160	2012 R	1980
6	1998	ICEH X	1	1	.07160	2012 R	1980
6	1998	ICEH X	46	46	.07160	2012 R	1981
6	1998	ICEH X	1	1	.07160	2012 R	1981
6	1998	ICEH X	46	46	.07160	2012 R	1982
6	1998	ICEH X	1	1	.07160	2012 R	1982
6	1998	ICEH X	46	46	.07160	2012 R	1983
6	1998	ICEH X	1	1	.07160	2012 R	1983
6	1998	ICEH X	21	21	.07150	2026 A	1985
6	1998	ICEH X	41	41	.07160	2012	1985
6	1998	ICEH X	137	137	.07160	2012	1986
6	1998	ICEH X	71	0	.08875	2012 R	1987
6	1998	ICEH X	3	3	.07160	2012	1987
6	1998	ICEH X	1	0	.08875	2012	1987
6	1998	ICEH X	8	0	.08500	2012	1988
6	1998	ICEH X	57	0	.08500	2012 R	1988

6	1998	ICEH X	51	0	.09250	2012 R	1989
6	1998	ICEH X	427	0	.08875	2012 R	1990
6	1998	ICEH X	348	0	.08750	2012 R	1991
6	1998	ICEH X	177	0	.08500	2012	1992
6	1998	ICEH X	3192	0	.07875	2012 R	1993
6	1998	ICEH X	1645	0	.07875	2012	1993
6	1998	ICEH X	328	0	.07125	2029 R	1994
6	1998	ICEH X	520	0	.07125	2029 A	1994
6	1998	ICEH X	2	0	.07330	2000 R	1995
6	1998	ICEH X	84	84	.07270	2019	1995
6	1998	ICEH X	171	171	.07270	2019	1995
6	1998	ICEH X	849	849	.07270	2019	1995
6	1998	ICEH X	78	78	.07150	2031	1996
6	1998	ICEH X	371	371	.07150	2041 R	1996
6	1998	ICEH X	66	66	.07230	2022	1997
6	1998	ICEH X	67	67	.07150	2047	1997
6	1998	JOHN X	27254	21686	.07280	2018	1968
6	1998	JOHN X	96104	96104	.07270	2019	1969
6	1998	JOHN X	23656	23656	.07250	2020	1970
6	1998	JOHN X	34974	34974	.07230	2021	1971
6	1998	JOHN X	11502	11502	.07210	2022	1972
6	1998	JOHN X	3677	0	.10750	2022 R	1984
6	1998	JOHN X	1209	0	.12375	2022 R	1985
6	1998	JOHN X	6490	6490	.07210	2022	1985
6	1998	JOHN X	713	0	.11375	2022 R	1986
6	1998	JOHN X	3227	3227	.07210	2022	1986
6	1998	JOHN X	4353	0	.08875	2022 R	1987
6	1998	JOHN X	706	706	.07210	2022	1987
6	1998	JOHN X	332	0	.08500	2022	1988
6	1998	JOHN X	199	0	.08500	2022 R	1988
6	1998	JOHN X	377	0	.09250	2022 R	1989
6	1998	JOHN X	30	30	.07210	2022	1989
6	1998	JOHN X	37	37	.07210	2022	1990
6	1998	JOHN X	543	0	.08875	2022 R	1990
6	1998	JOHN X	13218	0	.08750	2022 R	1991
6	1998	JOHN X	144	0	.08750	2022	1991
6	1998	JOHN X	19	19	.07210	2022	1992
6	1998	JOHN X	95	0	.08500	2022	1992
6	1998	JOHN X	7810	0	.07875	2022 R	1993
6	1998	JOHN X	9585	0	.07875	2022	1993
6	1998	JOHN X	14	0	.07125	2019 R	1994
6	1998	JOHN X	1252	0	.07125	2029 A	1994
6	1998	JOHN X	2	0	.07330	2000	1995
6	1998	JOHN X	9	0	.07330	2000 R	1995
6	1998	JOHN X	22	22	.07150	2035	1995
6	1998	JOHN X	37	37	.07150	2045	1995
6	1998	JOHN X	52	52	.07150	2035	1995
6	1998	JOHN X	79	79	.07250	2020	1995
6	1998	JOHN X	121	121	.07150	2035	1995
6	1998	JOHN X	608	608	.07150	2045	1995
6	1998	JOHN X	7653	7653	.07150	2045 R	1995
6	1998	JOHN X	237	237	.07130	2011	1996
6	1998	JOHN X	1072	1072	.07290	2016	1996

6	1998	JOHN X	133	133	.07230	2022	1997
6	1998	JOHN X	179	179	.07150	2047	1997
6	1998	LIBB X	54644	48138	.07160	2025	1975
6	1998	LIBB X	153432	153432	.07150	2026	1976
6	1998	LIBB X	1465	1465	.07150	2026 R	1977
6	1998	LIBB X	1465	1465	.07150	2026 R	1978
6	1998	LIBB X	1465	1465	.07150	2026 R	1979
6	1998	LIBB X	1465	1465	.07150	2026 R	1980
6	1998	LIBB X	1465	1465	.07150	2026 R	1981
6	1998	LIBB X	1465	1465	.07150	2026 R	1982
6	1998	LIBB X	1465	1465	.07150	2026 R	1983
6	1998	LIBB X	104	0	.10750	2026 R	1984
6	1998	LIBB X	518	518	.07150	2026	1985
6	1998	LIBB X	283	283	.07150	2026	1986
6	1998	LIBB X	2	2	.07150	2026	1987
6	1998	LIBB X	18043	14781	.07150	2038 A	1988
6	1998	LIBB X	35	0	.08505	2026	1988
6	1998	LIBB X	131	0	.09250	2026 R	1989
6	1998	LIBB X	1	1	.07150	2026	1989
6	1998	LIBB X	11	0	.08875	2026	1990
6	1998	LIBB X	134	0	.08750	2026 R	1991
6	1998	LIBB X	100	0	.08500	2026 R	1992
6	1998	LIBB X	70	0	.08500	2026	1992
6	1998	LIBB X	600	0	.07875	2026	1993
6	1998	LIBB X	215	0	.07125	2029 R	1994
6	1998	LIBB X	286	152	.07150	2029 A	1994
6	1998	LIBB X	15	15	.07150	2030 R	1995
6	1998	LIBB X	41	41	.07150	2030	1995
6	1998	LIBB X	94	94	.07150	2030 R	1995
6	1998	LIBB X	432	432	.07230	2022	1997
6	1998	LIBB X	660	660	.07150	2047	1997
6	1998	LITT X	22326	21301	.07250	2020	1970
6	1998	LITT X	42962	42962	.07230	2021	1971
6	1998	LITT X	28	28	.07230	2021 R	1972
6	1998	LITT X	29	29	.07230	2021 R	1973
6	1998	LITT X	28	28	.07230	2021 R	1974
6	1998	LITT X	29	29	.07230	2021 R	1975
6	1998	LITT X	28	28	.07230	2021 R	1976
6	1998	LITT X	29	29	.07230	2021 R	1977
6	1998	LITT X	49578	49578	.07150	2028 A	1978
6	1998	LITT X	28	28	.07230	2021 R	1978
6	1998	LITT X	29	29	.07230	2021 R	1979
6	1998	LITT X	28	28	.07230	2021 R	1980
6	1998	LITT X	29	29	.07230	2021 R	1981
6	1998	LITT X	28	28	.07230	2021 R	1982
6	1998	LITT X	29	29	.07230	2021 R	1983
6	1998	LITT X	201	0	.10750	2021 R	1984
6	1998	LITT X	47	47	.07150	2028 A	1985
6	1998	LITT X	174	174	.07230	2021	1985
6	1998	LITT X	239	239	.07230	2021	1986
6	1998	LITT X	72	0	.08875	2021 R	1987
6	1998	LITT X	6	6	.07230	2021	1987
6	1998	LITT X	12	0	.08500	2021	1988

6	1998	LITT X	68	0	.08500	2021 R	1988
6	1998	LITT X	77	0	.09250	2021 R	1989
6	1998	LITT X	408	0	.08875	2021 R	1990
6	1998	LITT X	21	0	.08875	2021	1990
6	1998	LITT X	266	0	.08750	2021 R	1991
6	1998	LITT X	66	0	.08500	2021 R	1992
6	1998	LITT X	27	0	.08500	2021	1992
6	1998	LITT X	276	0	.07875	2021 R	1993
6	1998	LITT X	3359	0	.07875	2021	1993
6	1998	LITT X	37	0	.07125	2019 R	1994
6	1998	LITT X	2044	0	.07125	2029 A	1994
6	1998	LITT X	17	17	.07150	2040	1995
6	1998	LITT X	450	450	.07150	2040	1995
6	1998	LITT X	733	733	.07150	2040 R	1995
6	1998	LITT X	10	10	.07150	2046	1996
6	1998	LITT X	10	10	.07150	2046 R	1996
6	1998	LITT X	211	211	.07150	2046	1996
6	1998	LITT X	241	241	.07150	2046	1996
6	1998	LITT X	520	520	.07150	2046 R	1996
6	1998	LITT X	3909	3909	.07150	2046 R	1996
6	1998	LITT X	1	1	.07150	2047	1997
6	1998	LOOK X	34290	28417	.06910	2005	1955
6	1998	LOOK X	52	52	.06910	2005 R	1956
6	1998	LOOK X	51	51	.06910	2005 R	1957
6	1998	LOOK X	51	51	.06910	2005 R	1958
6	1998	LOOK X	51	51	.06910	2005 R	1959
6	1998	LOOK X	51	51	.06910	2005 R	1960
6	1998	LOOK X	52	52	.06910	2005 R	1961
6	1998	LOOK X	51	51	.06910	2005 R	1962
6	1998	LOOK X	51	51	.06910	2005 R	1963
6	1998	LOOK X	51	51	.06910	2005 R	1964
6	1998	LOOK X	51	51	.06910	2005 R	1965
6	1998	LOOK X	51	51	.06910	2005 R	1966
6	1998	LOOK X	52	52	.06910	2005 R	1967
6	1998	LOOK X	51	51	.06910	2005 R	1968
6	1998	LOOK X	51	51	.06910	2005 R	1969
6	1998	LOOK X	51	51	.06910	2005 R	1970
6	1998	LOOK X	51	51	.06910	2005 R	1971
6	1998	LOOK X	51	51	.06910	2005 R	1972
6	1998	LOOK X	52	52	.06910	2005 R	1973
6	1998	LOOK X	51	51	.06910	2005 R	1974
6	1998	LOOK X	51	51	.06910	2005 R	1975
6	1998	LOOK X	51	51	.06910	2005 R	1976
6	1998	LOOK X	51	51	.06910	2005 R	1977
6	1998	LOOK X	51	51	.06910	2005 R	1978
6	1998	LOOK X	52	52	.06910	2005 R	1979
6	1998	LOOK X	51	51	.06910	2005 R	1980
6	1998	LOOK X	51	51	.06910	2005 R	1981
6	1998	LOOK X	51	51	.06910	2005 R	1982
6	1998	LOOK X	51	51	.06910	2005 R	1983
6	1998	LOOK X	185	0	.10750	2005 R	1984
6	1998	LOOK X	52	52	.06910	2005	1985
6	1998	LOOK X	42	42	.06910	2005	1986

6	1998	LOOK X	12	0	.08875	2005 R	1987
6	1998	LOOK X	9	9	.06910	2005	1987
6	1998	LOOK X	46	0	.08500	2005	1988
6	1998	LOOK X	17	0	.08500	2005 R	1988
6	1998	LOOK X	23	0	.09250	2005 R	1989
6	1998	LOOK X	147	0	.08875	2005 R	1990
6	1998	LOOK X	4	0	.08875	2005	1990
6	1998	LOOK X	6	0	.08750	2005 R	1991
6	1998	LOOK X	50	0	.08750	2005	1991
6	1998	LOOK X	181	0	.08500	2005 R	1992
6	1998	LOOK X	4	0	.08500	2005	1992
6	1998	LOOK X	18	0	.07875	2005 R	1993
6	1998	LOOK X	189	0	.07875	2005	1993
6	1998	LOOK X	73	0	.07125	2019 A	1994
6	1998	LOOK X	9	0	.07860	2045	1995
6	1998	LOOK X	15	0	.07860	2045	1995
6	1998	LOOK X	31	0	.07860	2045	1995
6	1998	LOOK X	33	33	.07150	2045	1995
6	1998	LOOK X	80	39	.07150	2045	1995
6	1998	LOOK X	157	0	.07860	2045	1995
6	1998	LOST X	13505	13413	.07150	2027	1977
6	1998	LOST X	58	58	.07150	2027 R	1978
6	1998	LOST X	60	60	.07150	2027 R	1979
6	1998	LOST X	60	60	.07150	2027 R	1980
6	1998	LOST X	60	60	.07150	2027 R	1981
6	1998	LOST X	60	60	.07150	2027 R	1982
6	1998	LOST X	60	60	.07150	2027 R	1983
6	1998	LOST X	243	0	.10750	2027 R	1984
6	1998	LOST X	12	12	.07150	2027	1985
6	1998	LOST X	5	0	.11375	2027 R	1986
6	1998	LOST X	6	6	.07150	2027	1986
6	1998	LOST X	3	0	.08875	2027 R	1987
6	1998	LOST X	4	4	.07150	2027	1987
6	1998	LOST X	7	0	.08500	2027	1988
6	1998	LOST X	9	0	.09250	2027 R	1989
6	1998	LOST X	1	0	.08875	2027	1990
6	1998	LOST X	31	0	.08750	2027	1991
6	1998	LOST X	1	0	.08500	2027 R	1992
6	1998	LOST X	1	0	.08500	2027	1992
6	1998	LOST X	1	0	.07875	2027 R	1993
6	1998	LOST X	14	0	.07875	2027	1993
6	1998	LOST X	4	0	.07330	2000	1995
6	1998	LOST X	94	94	.07150	2045	1995
6	1998	LOST X	24	24	.07150	2046	1996
6	1998	LOST X	31	31	.07150	2031	1996
6	1998	LOWG X	119237	117645	.07160	2025	1975
6	1998	LOWG X	510	510	.07160	2025 R	1976
6	1998	LOWG X	510	510	.07160	2025 R	1977
6	1998	LOWG X	40611	40611	.07150	2028 A	1978
6	1998	LOWG X	510	510	.07160	2025 R	1978
6	1998	LOWG X	510	510	.07160	2025 R	1979
6	1998	LOWG X	510	510	.07160	2025 R	1980
6	1998	LOWG X	510	510	.07160	2025 R	1981

6	1998	LOWG X	510	510	.07160	2025 R	1982
6	1998	LOWG X	510	510	.07160	2025 R	1983
6	1998	LOWG X	311	0	.10750	2025 R	1984
6	1998	LOWG X	328	328	.07160	2025	1985
6	1998	LOWG X	4	0	.11375	2025 R	1986
6	1998	LOWG X	215	215	.07160	2025	1986
6	1998	LOWG X	60	0	.08875	2025 R	1987
6	1998	LOWG X	8	8	.07160	2025	1987
6	1998	LOWG X	22	0	.08500	2025	1988
6	1998	LOWG X	95	0	.08500	2025 R	1988
6	1998	LOWG X	112	0	.09250	2025 R	1989
6	1998	LOWG X	392	0	.08875	2025 R	1990
6	1998	LOWG X	281	0	.08750	2025 R	1991
6	1998	LOWG X	6	0	.08750	2025	1991
6	1998	LOWG X	83	0	.08500	2025 R	1992
6	1998	LOWG X	121	0	.08500	2025	1992
6	1998	LOWG X	26	0	.07875	2025 R	1993
6	1998	LOWG X	3272	0	.07875	2025	1993
6	1998	LOWG X	38	0	.07125	2019 R	1994
6	1998	LOWG X	3543	1551	.07150	2029 A	1994
6	1998	LOWG X	77	77	.07290	2017 R	1995
6	1998	LOWG X	96	96	.07160	2025	1995
6	1998	LOWG X	388	388	.07290	2017	1995
6	1998	LOWG X	458	458	.07290	2017	1995
6	1998	LOWG X	9	9	.07150	2046 R	1996
6	1998	LOWG X	206	206	.07150	2031	1996
6	1998	LOWG X	255	255	.07130	2011	1996
6	1998	LOWG X	625	625	.07150	2046	1996
6	1998	LOWG X	677	677	.07150	2047	1997
6	1998	LOWM X	26974	25083	.07270	2019	1969
6	1998	LOWM X	51218	51218	.07250	2020	1970
6	1998	LOWM X	214	214	.07250	2020 R	1971
6	1998	LOWM X	214	214	.07250	2020 R	1972
6	1998	LOWM X	214	214	.07250	2020 R	1973
6	1998	LOWM X	214	214	.07250	2020 R	1974
6	1998	LOWM X	214	214	.07250	2020 R	1975
6	1998	LOWM X	214	214	.07250	2020 R	1976
6	1998	LOWM X	214	214	.07250	2020 R	1977
6	1998	LOWM X	214	214	.07250	2020 R	1978
6	1998	LOWM X	40669	40669	.07150	2029 A	1979
6	1998	LOWM X	214	214	.07250	2020 R	1979
6	1998	LOWM X	214	214	.07250	2020 R	1980
6	1998	LOWM X	214	214	.07250	2020 R	1981
6	1998	LOWM X	214	214	.07250	2020 R	1982
6	1998	LOWM X	214	214	.07250	2020 R	1983
6	1998	LOWM X	256	256	.07150	2029 A	1985
6	1998	LOWM X	8	8	.07250	2020	1985
6	1998	LOWM X	132	132	.07250	2020	1986
6	1998	LOWM X	50	0	.08875	2020 R	1987
6	1998	LOWM X	3	3	.07250	2020	1987
6	1998	LOWM X	1	0	.08500	2020	1988
6	1998	LOWM X	58	0	.08500	2020 R	1988
6	1998	LOWM X	93	0	.09250	2020 R	1989

6	1998	LOWM	X	358	0	.08875	2020	R	1990
6	1998	LOWM	X	594	0	.08750	2020		1991
6	1998	LOWM	X	4484	0	.08500	2020		1992
6	1998	LOWM	X	24	0	.07875	2020	R	1993
6	1998	LOWM	X	2175	0	.07875	2020		1993
6	1998	LOWM	X	107	0	.07125	2019	R	1994
6	1998	LOWM	X	2167	0	.07125	2029	A	1994
6	1998	LOWM	X	6	0	.07330	2000		1995
6	1998	LOWM	X	41	41	.07150	2045		1995
6	1998	LOWM	X	99	99	.07150	2045		1995
6	1998	LOWM	X	624	624	.07150	2045		1995
6	1998	LOWM	X	1122	1122	.07150	2045	R	1995
6	1998	LOWM	X	10	10	.07150	2046		1996
6	1998	LOWM	X	37	37	.07230	2021		1996
6	1998	LOWM	X	51	51	.07230	2021		1996
6	1998	LOWM	X	264	264	.07150	2036	R	1996
6	1998	LOWM	X	668	668	.07290	2016		1996
6	1998	LSFW	X	30983	9967	.07150	2033		1983
6	1998	LSFW	X	47921	47921	.07150	2035		1985
6	1998	LSFW	X	72536	72536	.07150	2037		1987
6	1998	LSFW	X	805	805	.07150	2038		1988
6	1998	LSFW	X	1557	1557	.07150	2040		1990
6	1998	LSFW	X	4411	4411	.07150	2041		1991
6	1998	LSFW	X	71632	71632	.07150	2043		1993
6	1998	LSFW	X	4619	4619	.07150	2044		1994
6	1998	LSFW	X	2162	2162	.07150	2045		1995
6	1998	LSFW	X	10185	10185	.07150	2046		1996
6	1998	LSFW	X	2173	2173	.07150	2047		1997
6	1998	MCNA	X	80256	35757	.06880	2004		1954
6	1998	MCNA	X	53493	53493	.06910	2005		1955
6	1998	MCNA	X	38748	38748	.06950	2006		1956
6	1998	MCNA	X	24985	24985	.06980	2007		1957
6	1998	MCNA	X	468	468	.06980	2007	R	1958
6	1998	MCNA	X	468	468	.06980	2007	R	1959
6	1998	MCNA	X	468	468	.06980	2007	R	1960
6	1998	MCNA	X	468	468	.06980	2007	R	1961
6	1998	MCNA	X	467	467	.06980	2007	R	1962
6	1998	MCNA	X	468	468	.06980	2007	R	1963
6	1998	MCNA	X	468	468	.06980	2007	R	1964
6	1998	MCNA	X	468	468	.06980	2007	R	1965
6	1998	MCNA	X	468	468	.06980	2007	R	1966
6	1998	MCNA	X	467	467	.06980	2007	R	1967
6	1998	MCNA	X	468	468	.06980	2007	R	1968
6	1998	MCNA	X	468	468	.06980	2007	R	1969
6	1998	MCNA	X	468	468	.06980	2007	R	1970
6	1998	MCNA	X	468	468	.06980	2007	R	1971
6	1998	MCNA	X	468	468	.06980	2007	R	1972
6	1998	MCNA	X	467	467	.06980	2007	R	1973
6	1998	MCNA	X	468	468	.06980	2007	R	1974
6	1998	MCNA	X	468	468	.06980	2007	R	1975
6	1998	MCNA	X	468	468	.06980	2007	R	1976
6	1998	MCNA	X	467	467	.06980	2007	R	1977
6	1998	MCNA	X	468	468	.06980	2007	R	1978

6	1998	MCNA X	468	468	.06980	2007 R	1979
6	1998	MCNA X	468	468	.06980	2007 R	1980
6	1998	MCNA X	468	468	.06980	2007 R	1981
6	1998	MCNA X	467	467	.06980	2007 R	1982
6	1998	MCNA X	468	468	.06980	2007 R	1983
6	1998	MCNA X	557	557	.06980	2007	1985
6	1998	MCNA X	454	454	.06980	2007	1986
6	1998	MCNA X	35	0	.08875	2007 R	1987
6	1998	MCNA X	24	24	.06980	2007	1987
6	1998	MCNA X	20	0	.08500	2007	1988
6	1998	MCNA X	50	0	.08500	2007 R	1988
6	1998	MCNA X	130	0	.09250	2007 R	1989
6	1998	MCNA X	2228	0	.08875	2007 R	1990
6	1998	MCNA X	14	0	.08875	2007	1990
6	1998	MCNA X	66	0	.08750	2007 R	1991
6	1998	MCNA X	76	0	.08750	2007	1991
6	1998	MCNA X	222	0	.08500	2007 R	1992
6	1998	MCNA X	125	0	.08500	2007	1992
6	1998	MCNA X	34	0	.07875	2007 R	1993
6	1998	MCNA X	1462	0	.07875	2007	1993
6	1998	MCNA X	1521	0	.07125	2029 A	1994
6	1998	MCNA X	68	0	.07125	2019 R	1994
6	1998	MCNA X	16	16	.07150	2045	1995
6	1998	MCNA X	509	509	.07090	2010	1995
6	1998	MCNA X	3	3	.07130	2011	1996
6	1998	MCNA X	74	74	.07150	2026	1996
6	1998	MCNA X	277	277	.07150	2026	1996
6	1998	MCNA X	619	619	.07150	2046	1996
6	1998	MCNA X	778	778	.06950	2006	1996
6	1998	MCNA X	30	30	.07150	2032	1997
6	1998	MINI X	854	0	.03000	1959	1909
6	1998	MINI X	226	0	.03000	1959	1909
6	1998	MINI X	1709	0	.03000	1960	1910
6	1998	MINI X	451	0	.03000	1960	1910
6	1998	MINI X	1709	0	.03000	1961	1911
6	1998	MINI X	451	0	.03000	1961	1911
6	1998	MINI X	854	0	.03000	1977	1927
6	1998	MINI X	226	0	.03000	1977	1927
6	1998	MINI X	854	0	.03000	1992	1942
6	1998	MINI X	226	0	.03000	1992	1942
6	1998	MINI X	2561	0	.03000	2007	1957
6	1998	MINI X	677	0	.03000	2007	1957
6	1998	MINI X	854	0	.03000	2008	1958
6	1998	MINI X	226	0	.03000	2008	1958
6	1998	MINI X	108	0	.03000	2008 R	1959
6	1998	MINI X	28	0	.03000	2008 R	1959
6	1998	MINI X	108	0	.03000	2008 R	1960
6	1998	MINI X	29	0	.03000	2008 R	1960
6	1998	MINI X	108	0	.03000	2008 R	1961
6	1998	MINI X	29	0	.03000	2008 R	1961
6	1998	MINI X	108	0	.03000	2008 R	1962
6	1998	MINI X	28	0	.03000	2008 R	1962
6	1998	MINI X	108	0	.03000	2008 R	1963

6	1998	MINI X	29	0	.03000	2008 R	1963
6	1998	MINI X	108	0	.03000	2008 R	1964
6	1998	MINI X	28	0	.03000	2008 R	1964
6	1998	MINI X	108	0	.03000	2008 R	1965
6	1998	MINI X	29	0	.03000	2008 R	1965
6	1998	MINI X	108	0	.03000	2008 R	1966
6	1998	MINI X	29	0	.03000	2008 R	1966
6	1998	MINI X	108	0	.03000	2008 R	1967
6	1998	MINI X	28	0	.03000	2008 R	1967
6	1998	MINI X	108	0	.03000	2008 R	1968
6	1998	MINI X	29	0	.03000	2008 R	1968
6	1998	MINI X	3	0	.03000	2008 R	1969
6	1998	MINI X	28	0	.03000	2008 R	1969
6	1998	MINI X	108	0	.03000	2008 R	1970
6	1998	MINI X	29	0	.03000	2008 R	1970
6	1998	MINI X	108	0	.03000	2008 R	1971
6	1998	MINI X	29	0	.03000	2008 R	1971
6	1998	MINI X	108	0	.03000	2008 R	1972
6	1998	MINI X	28	0	.03000	2008 R	1972
6	1998	MINI X	108	0	.03000	2008 R	1973
6	1998	MINI X	29	0	.03000	2008 R	1973
6	1998	MINI X	108	0	.03000	2008 R	1974
6	1998	MINI X	28	0	.03000	2008 R	1974
6	1998	MINI X	108	0	.03000	2008 R	1975
6	1998	MINI X	29	0	.03000	2008 R	1975
6	1998	MINI X	108	0	.03000	2008 R	1976
6	1998	MINI X	29	0	.03000	2008 R	1976
6	1998	MINI X	83	56	.07020	2008 R	1977
6	1998	MINI X	28	0	.07020	2008 R	1977
6	1998	MINI X	75	75	.07020	2008 R	1978
6	1998	MINI X	20	20	.07020	2008 R	1978
6	1998	MINI X	75	75	.07020	2008 R	1979
6	1998	MINI X	19	19	.07020	2008 R	1979
6	1998	MINI X	75	75	.07020	2008 R	1980
6	1998	MINI X	20	20	.07020	2008 R	1980
6	1998	MINI X	75	75	.07020	2008 R	1981
6	1998	MINI X	20	20	.07020	2008 R	1981
6	1998	MINI X	75	75	.07020	2008 R	1982
6	1998	MINI X	19	19	.07020	2008 R	1982
6	1998	MINI X	65	65	.07020	2008 R	1983
6	1998	MINI X	20	20	.07020	2008 R	1983
6	1998	MINI X	44	0	.10750	2008 R	1984
6	1998	MINI X	11	0	.10750	2008 R	1984
6	1998	MINI X	21	21	.07020	2008	1985
6	1998	MINI X	48	0	.11375	2008 R	1986
6	1998	MINI X	21	21	.07020	2008	1986
6	1998	MINI X	16	16	.07020	2008	1987
6	1998	MINI X	31	0	.08500	2008	1988
6	1998	MINI X	20	0	.09250	2008 R	1989
6	1998	MINI X	33	0	.08875	2008 R	1990
6	1998	MINI X	62	0	.08750	2008 R	1991
6	1998	MINI X	11	0	.08750	2008	1991
6	1998	MINI X	32	0	.08750	2008 R	1991

6	1998	MINI X	6	0	.08500	2008 R	1992
6	1998	MINI X	351	0	.07125	2029	1994
6	1998	MINI X	6	0	.07330	2000	1995
6	1998	MINI X	40	0	.07890	2010 R	1995
6	1998	MINI X	54	54	.07130	2011	1996
6	1998	MINI X	66	66	.06950	2007	1997
6	1998	MINI X	51558	51558	.07150	2047	1997
6	1998	THED X	15908	0	.02500	2007	1957
6	1998	THED X	45837	33988	.07020	2008	1958
6	1998	THED X	40415	40415	.07060	2009	1959
6	1998	THED X	39179	39179	.07090	2010	1960
6	1998	THED X	9492	9492	.07130	2011	1961
6	1998	THED X	56	56	.07130	2011 R	1962
6	1998	THED X	57	57	.07130	2011 R	1963
6	1998	THED X	57	57	.07130	2011 R	1964
6	1998	THED X	56	56	.07130	2011 R	1965
6	1998	THED X	57	57	.07130	2011 R	1966
6	1998	THED X	57	57	.07130	2011 R	1967
6	1998	THED X	56	56	.07130	2011 R	1968
6	1998	THED X	57	57	.07130	2011 R	1969
6	1998	THED X	57	57	.07130	2011 R	1970
6	1998	THED X	56	56	.07130	2011 R	1971
6	1998	THED X	57	57	.07130	2011 R	1972
6	1998	THED X	21983	21983	.07190	2023 A	1973
6	1998	THED X	57	57	.07130	2011 R	1973
6	1998	THED X	7268	7268	.07170	2024 A	1974
6	1998	THED X	56	56	.07130	2011 R	1974
6	1998	THED X	57	57	.07130	2011 R	1975
6	1998	THED X	57	57	.07130	2011 R	1976
6	1998	THED X	56	56	.07130	2011 R	1977
6	1998	THED X	57	57	.07130	2011 R	1978
6	1998	THED X	57	57	.07130	2011 R	1979
6	1998	THED X	56	56	.07130	2011 R	1980
6	1998	THED X	57	57	.07130	2011 R	1981
6	1998	THED X	57	57	.07130	2011 R	1982
6	1998	THED X	56	56	.07130	2011 R	1983
6	1998	THED X	961	0	.10750	2011 R	1984
6	1998	THED X	280	0	.12375	2011 R	1985
6	1998	THED X	95	95	.07130	2011	1985
6	1998	THED X	4	0	.11375	2011 R	1986
6	1998	THED X	95	95	.07130	2011	1986
6	1998	THED X	81	0	.08875	2011 R	1987
6	1998	THED X	1417	1417	.07130	2011	1987
6	1998	THED X	685	0	.08500	2011	1988
6	1998	THED X	1	0	.08500	2011 R	1988
6	1998	THED X	898	0	.09250	2011 R	1989
6	1998	THED X	319	0	.08875	2011 R	1990
6	1998	THED X	745	0	.08875	2011	1990
6	1998	THED X	89	0	.08750	2011 R	1991
6	1998	THED X	2452	0	.08750	2011	1991
6	1998	THED X	57	0	.08500	2011 R	1992
6	1998	THED X	130	0	.08500	2011	1992
6	1998	THED X	2028	0	.07875	2011 R	1993

6	1998	THED X	2929	0	.07875	2011	1993
6	1998	THED X	1425	0	.07125	2029 A	1994
6	1998	THED X	196	196	.07020	2008	1996
6	1998	THED X	457	457	.07130	2011	1996
6	1998	THED X	1991	1991	.07150	2046	1996
6	1998	YAKC X	1068	193	.07210	2022	1956
6	1998	YAKC X	481	216	.07210	2022	1956
6	1998	YAKC X	1	1	.07210	2022 R	1959
6	1998	YAKC X	1	1	.07210	2022 R	1960
6	1998	YAKC X	1	1	.07210	2022 R	1961
6	1998	YAKC X	35	0	.10750	2022 R	1984
6	1998	YAKC X	10	0	.10750	2022 R	1984
6	1998	YAKC X	357	0	.12375	2022 R	1985
6	1998	YAKC X	7	0	.11375	2022 R	1986
6	1998	YAKC X	456	455	.07210	2022	1986
6	1998	YAKC X	126	0	.08875	2022 R	1987
6	1998	YAKC X	18	0	.09250	2022 R	1989
6	1998	YAKC X	40	0	.08875	2022 R	1990
6	1998	YAKC X	109	0	.08750	2022	1991
6	1998	YAKR X	961	533	.07020	2008	1958
6	1998	YAKR X	292	161	.07020	2008	1958
6	1998	YAKR X	17	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.12375	2008 R	1985
6	1998	YAKR X	69	69	.07020	2008	1985
6	1998	YAKR X	6	6	.07020	2008	1986
6	1998	YAKR X	9	0	.08875	2008 R	1987
6	1998	YAKR X	2	2	.07020	2008	1987
6	1998	YAKR X	11	0	.08500	2008	1988
6	1998	YAKR X	17	0	.09250	2008 R	1989
6	1998	YAKR X	76	0	.08750	2008 R	1991

3993273	3102498	908.36050	2668464
		2715584	

890775 = TOTAL FOR 6

6	1998	ZABF X	38	0	.08350	2032	1992	10
6	1998	ZABF X	67	67	.07700	2025	1995	07 05
6	1998	ZABF X	5622	5622	.05900	2003	1996	08 T
6	1998	ZABF X	7400	7400	.06800	2004	1997	01 T
6	1999	ZABF X	11080	11080	.05900	2014	1999	02 T
6	1998	ZACO X	140000	0	.12200	2003	1983	09
6	1998	ZACO X	150000	0	.13050	2004	1984	09
6	1998	ZACO X	-120000	0	.13050	2004	1989	09
6	1998	ZACO X	50000	0	.10150	1990	1985	09 T
6	1998	ZACO X	50000	0	.08150	1996	1986	03 T
6	1998	ZACO X	50000	0	.07800	1991	1986	03 T
6	1998	ZACO X	75000	0	.09300	2007	1987	04
6	1998	ZACO X	-75000	0	.09300	2007	1992	04
6	1998	ZACO X	50000	0	.08350	1992	1987	06 T
6	1998	ZACO X	90000	0	.09900	2008	1988	04
6	1998	ZACO X	40000	40000	.08550	2009	1989	07 T
6	1998	ZACO X	66000	0	.08600	1995	1989	09 T

6	1998	ZACO X	66000	66000	.08650	2002	1989	09	T	
6	1998	ZACO X	100000	0	.07140	2007	1992	07		
6	1998	ZACO X	-100000	0	.07140	2007	1998	09		
6	1998	ZACO X	80200	0	.05800	1997	1992	07	T	
6	1998	ZACO X	50000	0	.08050	2012	1992	10		
6	1998	ZACO X	50000	0	.07400	2013	1993	02		
6	1998	ZACO X	-50000	0	.07400	2013	1998	09		
6	1998	ZACO X	40000	40000	.06750	2013	1993	08		
6	1998	ZACO X	50000	50000	.06750	2014	1994	01		
6	1998	ZACO X	50000	0	.07100	1998	1994	05	01	P
6	1998	ZACO X	85000	85000	.07500	2015	1995	05	05	
6	1998	ZACO X	30000	30000	.06700	2011	1996	01	05	
6	1998	ZACO X	40000	40000	.07200	2017	1996	11	05	
6	1998	ZACO X	37700	37700	.06000	2009	1998	05	T	
6	1998	ZACO X	52800	52800	.05600	2013	1998	09	T	
6	1998	ZACO X	104300	104300	.05300	2008	1998	09	T	
6	1999	ZACO X	6000	6000	.07470	2019	1999	03		
6	1998	ZADB X	35000	35000	.07500	2015	1995	05	05	
6	1998	ZADB X	50000	50000	.06500	2000	1997	05	T	
6	1998	ZADB X	25000	25000	.06000	2008	1998	04		
6	1999	ZADB X	20000	20000	.06400	2004	1999	09	T	
6	1998	ZAFW X	25000	00	.08950	1999	1989	05	T	
6	1998	ZAFW X	50000	0	.07950	1996	1991	05	T	
6	1998	ZAFW X	20000	20000	.06950	2008	1993	02		
6	1998	ZAFW X	20000	0	.07650	1999	1994	09	01	P
6	1998	ZAFW X	22900	22900	.07200	2010	1995	08	05	
6	1998	ZAFW X	60000	60000	.06100	2013	1998	01		
6	1999	ZAFW X	20000	20000	.06300	2003	1999	09	T	
			1630107	828869						
				34.85000			89687			
					90307					

801238 = TOTAL FOR 6

6	1998	ZIRR X	25143	0	.00000	1997	1997			
6	1998	ZIRR X	16560	16560	.00000	2001	1997			
6	1998	ZIRR X	184	184	.00000	2004	1997			
6	1998	ZIRR X	208	208	.00000	2004	1997			
6	1998	ZIRR X	347	347	.00000	2004	1997			
6	1998	ZIRR X	2950	2950	.00000	2008	1997			
6	1998	ZIRR X	5702	5702	.00000	2009	1997			
6	1998	ZIRR X	2007	2007	.00000	2009	1997			
6	1998	ZIRR X	811	811	.00000	2012	1997			
6	1998	ZIRR X	49796	49796	.00000	2013	1997			
6	1998	ZIRR X	48554	48554	.00000	2014	1997			
6	1998	ZIRR X	54101	54101	.00000	2015	1997			
6	1998	ZIRR X	64264	64264	.00000	2016	1997			
6	1998	ZIRR X	60457	60457	.00000	2017	1997			
6	1998	ZIRR X	1071	1071	.00000	2017	1997			
6	1998	ZIRR X	718	718	.00000	2017	1997			
6	1998	ZIRR X	24267	24267	.00000	2018	1997			
6	1998	ZIRR X	680	680	.00000	2018	1997			
6	1998	ZIRR X	513	513	.00000	2018	1997			
6	1998	ZIRR X	61343	61343	.00000	2019	1997			

6	1998	ZIRR X	1125	1125	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	375	375	.00000	2019	1997
6	1998	ZIRR X	34108	34108	.00000	2020	1997
6	1998	ZIRR X	2635	2635	.00000	2020	1997
6	1998	ZIRR X	15436	15436	.00000	2021	1997
6	1998	ZIRR X	1390	1390	.00000	2021	1997
6	1998	ZIRR X	15416	15416	.00000	2022	1997
6	1998	ZIRR X	415	415	.00000	2022	1997
6	1998	ZIRR X	9663	9663	.00000	2023	1997
6	1998	ZIRR X	14088	14088	.00000	2024	1997
6	1998	ZIRR X	1943	1943	.00000	2024	1997
6	1998	ZIRR X	5041	5041	.00000	2024	1997
6	1998	ZIRR X	17104	17104	.00000	2025	1997
6	1998	ZIRR X	1184	1184	.00000	2025	1997
6	1998	ZIRR X	3810	3810	.00000	2026	1997
6	1998	ZIRR X	11994	11994	.00000	2026	1997
6	1998	ZIRR X	953	953	.00000	2026	1997
6	1998	ZIRR X	2119	2119	.00000	2026	1997
6	1998	ZIRR X	8171	8171	.00000	2027	1997
6	1998	ZIRR X	14159	14159	.00000	2028	1997
6	1998	ZIRR X	4204	4204	.00000	2028	1997
6	1998	ZIRR X	4092	4092	.00000	2029	1997
6	1998	ZIRR X	2432	2432	.00000	2030	1997
6	1998	ZIRR X	15606	15606	.00000	2031	1997
6	1998	ZIRR X	12038	12038	.00000	2035	1997
6	1998	ZIRR X	3660	3660	.00000	2036	1997
6	1998	ZIRR X	16163	16163	.00000	2036	1997
6	1998	ZIRR X	9986	9986	.00000	2036	1997
6	1998	ZIRR X	4720	4720	.00000	2037	1997
6	1998	ZIRR X	22069	22069	.00000	2037	1997
6	1998	ZIRR X	15619	15619	.00000	2039	1997
6	1998	ZIRR X	73699	73699	.00000	2042	1997
6	1998	ZIRR X	26329	26329	.00000	2045	1997
			795580	770437			
					.00000		109835
							111197

25143 = TOTAL FOR 6

PROJECTED FEDERAL INVESTMENTS

			ORIGINAL	CURRENT	INTEREST	DUE	INSERVICE	CALENDAR
	PROJECT		PRINCIPAL	PRINCIPAL	RATE	DATE	DATE	MONTH
6	2000	BONN X	23476	23476	.06125	2050	2000	
6	2000	COLU X	1185	1185	.06125	2050	2000	
6	2000	COLU X	817	817	.06125	2050	2000	
6	2000	CRFB X	4541	4541	.06125	2050	2000	
6	2000	ICEH X	696	696	.06125	2050	2000	
6	2000	JOHN X	17643	17643	.06125	2050	2000	
6	2000	LOWG X	1261	1261	.06125	2050	2000	

6	2000	LOWM X	521	521	.06125	2050	2000
6	2000	MCNA X	937	937	.06125	2050	2000
6	2000	MINI X	81	81	.06520	2010	2000
6	2001	BOIS X	27	27	.06190	2011	2001
6	2001	BOIS X	4	4	.06190	2011	2001
6	2001	BONN X	17820	17820	.06390	2051	2001
6	2001	COLU X	3557	3557	.06390	2051	2001
6	2001	COLU X	1163	1163	.06390	2051	2001
6	2001	CRFB X	457474	457474	.06180	2051	2001
6	2001	LSFW X	7649	7649	.05990	2051	2001
6	2001	MINI X	80	80	.06190	2011	2001
6	2001	THED X	12528	12528	.06390	2051	2001
6	2002	BOIS X	27	27	.05940	2012	2002
6	2002	BONN X	8910	8910	.06180	2052	2002
6	2002	COLU X	507	507	.06120	2027	2002
6	2002	COLU X	1162	1162	.06180	2052	2002
6	2002	CRFB X	111042	111042	.06180	2052	2002
6	2002	LSFW X	794	794	.06180	2052	2002
6	2002	MINI X	80	80	.05940	2012	2002
6	2002	THED X	12528	12528	.06180	2052	2002
6	2003	BOIS X	27	27	.05750	2013	2003
6	2003	BONN X	22216	22216	.05990	2053	2003
6	2003	COLU X	507	507	.05930	2028	2003
6	2003	COLU X	1161	1161	.05990	2053	2003
6	2003	CRFB X	44682	44682	.05990	2053	2003
6	2003	MINI X	80	80	.05750	2013	2003
6	2003	THED X	12528	12528	.05990	2053	2003
6	2004	BOIS X	27	27	.05730	2014	2004
6	2004	COLU X	507	507	.05930	2029	2004
6	2004	COLU X	1162	1162	.06000	2054	2004
6	2004	CRFB X	213203	213203	.06000	2054	2004
6	2004	MCNA X	7000	7000	.06000	2054	2004
6	2004	MINI X	80	80	.05730	2014	2004
6	2004	THED X	12528	12528	.06000	2054	2004
6	2005	BOIS X	27	27	.05670	2015	2005
6	2005	COLU X	507	507	.05910	2030	2005
6	2005	COLU X	1162	1162	.05980	2055	2005
6	2005	CRFB X	91203	91203	.05980	2055	2005
6	2005	MCNA X	17000	17000	.05980	2055	2005
6	2005	MINI X	80	80	.05670	2015	2005
6	2005	THED X	12528	12528	.05980	2055	2005

1124725

1124725

29.07950

96109

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0 = TOTAL FOR 6

6	2000	ZABF X	4100	4100	.07540	2045	2000	03
6	2000	ZACO X	32555	32555	.07400	2020	2000	03
6	2000	ZADB X	95369	95369	.07540	2045	2000	03
6	2000	ZAFW X	27000	27000	.07240	2015	2000	03
6	2001	ZABF X	7600	7600	.07290	2046	2001	03
6	2001	ZACO X	1000	1000	.07110	2021	2001	03
6	2001	ZADB X	76100	76100	.07290	2046	2001	03

6	2001	ZAFW	X	27000	27000	.06920	2016	2001	03
6	2002	ZABF	X	2100	2100	.07080	2047	2002	03
6	2002	ZADB	X	89855	89855	.07080	2047	2002	03
6	2002	ZAFW	X	34732	34732	.06690	2017	2002	03
6	2003	ZABF	X	1400	1400	.06890	2048	2003	03
6	2003	ZADB	X	86650	86650	.06890	2048	2003	03
6	2003	ZAFW	X	38317	38317	.06500	2018	2003	03
6	2004	ZABF	X	1400	1400	.06900	2049	2004	03
6	2004	ZADB	X	61700	61700	.06900	2049	2004	03
6	2004	ZAFW	X	35825	35825	.06480	2019	2004	03
6	2005	ZABF	X	1400	1400	.06880	2050	2005	03
6	2005	ZADB	X	62100	62100	.06880	2050	2005	03
6	2005	ZAFW	X	33988	33988	.06440	2020	2005	03
				720191	720191				
					13.99400			40046	
								40716	

0 = TOTAL FOR 6

CHAPTER 8

**REPAYMENT STUDY RESULTS
CURRENT STUDY
FY 2005**

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**Summary of Interest Expense
Generation
FY 2005 Current Repayment Study**

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BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	222,012	236,125	252,003	255,597	261,715	267,926	262,758	254,462	250,149	250,149
----------------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

BPA BORROWING

BPA PROGRAM	1,649	2,075	2,426	2,549	2,313	1,907	1,646	1,646	1,646	1,646
BPA CONSERVATION	38,869	40,109	40,144	34,435	34,435	34,435	34,435	34,435	34,435	28,907
FISH, WILDLIFE & ENV	8,936	10,848	12,944	15,351	16,498	18,752	19,847	19,847	18,457	18,457
BUREAU DIRECT FUND	12,250	15,370	21,325	27,491	32,605	35,589	36,403	36,403	34,903	34,903
IRRIGATION ASSISTANC										
PREMIUMS	4					1,450		243		129
0LESS										
0 AFUDC										
0 INTEREST INCOME	11,449	11,311	13,367	12,414	13,187	15,371	14,132	13,568	13,195	13,888
0TOTAL BPA BORROWING	50,259	57,091	63,472	67,412	72,664	76,762	78,199	79,006	76,246	70,154
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTALS	272,271	293,216	315,475	323,009	334,379	344,688	340,957	333,468	326,395	320,303

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2005

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
BUREAU OF RECLAMATION										
BOISE	252	252	250	248	246	244	242	264	286	286
COLUMBIA BASIN	1,354	1,354	1,354	2,788	4,221	4,221	4,221	5,252	11,433	16,550
COLUMBIA BASIN - 3RD	32,564	32,564	32,564	32,564	32,564	32,564	29,405	22,735	11,929	3,127
HUNGRY HORSE	582	582	582	624	667	667	667	667	667	544
MINIDOKA	3,720	3,715	3,706	3,701	3,696	3,691	3,686	3,876	4,068	4,068
YAKIMA-CHANDLER	63	63	63	63	63		6	11	11	11
YAKIMA-ROZA										
TOTAL BUREAU	38,535	38,530	38,519	39,988	41,457	41,387	38,227	32,805	28,394	24,586
CORPS OF ENGINEERS										
ALBENI FALLS	184	183	183	183	183	211	241	241	241	241
BONNEVILLE	7,509	11,673	15,862	15,994	16,086	16,086	17,786	18,182	19,570	18,856
BONNEVILLE - 2ND POW	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	3,724
CHIEF JOSEPH	14,919	14,918	14,918	16,737	18,557	18,557	18,557	18,649	12,331	6,754
COUGAR	686	686	686	686	5	9	9	9	9	9
COLUMBIA RIVER FISH	60,515	60,515	60,515	60,515	60,515	60,515	60,515	60,515	60,515	60,515
DETROIT-BIG CLIFF	3	3	3	3	736	1,466	1,466	1,466	1,466	1,466
DWORSHAK	10,770	10,770	10,762	11,056	11,334	1,247	1,248	1,248	1,321	1,364
GREEN PETER-FOSTER	5	5	54	151	195	195	196	201	207	209
HILLS CREEK	686	686	686	2	2	2	2	2	2	2
ICE HARBOR FISH BYPA										
ICE HARBOR	4,851	5,653	7,257	4,777	4,772	4,772	4,890	3,857	4,331	3,864
JOHN DAY	9,148	9,148	7,544	6,521	2,286	2,509	3,316	3,316	3,317	3,319
LIBBY	16,366	16,642	16,916	16,916	16,885	16,890	9,787	2,540	2,542	2,518
LITTLE GOOSE FISH BY										
LITTLE GOOSE	8,687	9,730	10,773	9,486	6,582	6,582	7,350	8,118	4,830	5,148
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	5	5	6	6	6	34	61	61	61	61
LOST CREEK	995	995	995	996	996	996	996	70	95	93
LOWER GRANITE	11,984	11,985	11,967	12,227	12,487	7,725	5,955	5,956	3,262	3,346
LOWER MONUMENTAL	7,052	7,053	3,743	3,132	4,100	5,086	5,086	5,144	5,203	2,592
M McNARY	1,602	1,568	1,570	1,570	1,570	4,293	7,017	6,992	6,993	6,991
M McNARY FISH BYPASS										
STRUBE										
THE DALLES	9,761	6,983	6,070	6,076	6,082	3,984	3,986	3,986	4,187	4,453
TOTAL CORPS	191,955	195,428	196,737	193,261	189,606	177,386	174,691	166,780	156,710	125,525
LOWER SNAKE F AND W	16,806	16,820	16,834	16,947	17,059	17,062	17,064	17,064	17,109	16,423

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	247,296	250,778	252,090	250,196	248,122	235,835	229,982	216,649	202,213	166,534
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BPA BORROWING

BPA PROGRAM	1,646	1,646	1,646	1,646	1,646	992	992	992	992	992
BPA CONSERVATION	23,225	23,225	21,215	21,215	15,558	12,183	5,808	5,808	2,928	2,928
FISH, WILDLIFE & ENV	18,457	16,808	16,808	16,808	13,148	13,148	11,193	9,325	7,001	4,510
BUREAU DIRECT FUND	34,741	29,795	29,034	29,034	29,034	29,034	26,409	26,409	26,409	26,409
IRRIGATION ASSISTANC										
PREMIUMS	3,847	575								
0LESS										
0 AFUDC										
0 INTEREST INCOME	13,824	13,492	12,781	19,794	21,423	21,630	20,951	24,797	30,417	22,265
0TOTAL BPA BORROWING	68,092	58,557	55,922	48,909	37,963	33,727	23,451	17,737	6,913	12,574
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TOTALS	315,388	309,335	308,012	299,105	286,085	269,562	253,433	234,386	209,126	179,108

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2005

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
BUREAU OF RECLAMATION										
BOISE	286	44	44	44	41	1		767		
COLUMBIA BASIN	16,328	16,055	16,939	19,349	6,233	99		1,259	4,319	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE	100	85	85	172	235				289	
MINIDOKA	4,068	382	465	547	381	11		19		
YAKIMA-CHANDLER	11	11	11	11	8	3	14			
YAKIMA-ROZA									1	
TOTAL BUREAU	20,793	16,577	17,544	20,123	6,898	114	14	2,045	4,609	
CORPS OF ENGINEERS										
ALBENI FALLS	92	58	58	58	58	231		3		
BONNEVILLE	18,715	21,954	24,006	23,839	16,333	6,971	1,568	61		99
BONNEVILLE - 2ND POW	27									
CHIEF JOSEPH	6,309	6,185	6,185	6,190	231	84		1,500	331	
COUGAR	9	7	7	7	10	2				
COLUMBIA RIVER FISH	59,297	57,436	33,468	8,595	6,556	1,102				
DETROIT-BIG CLIFF	1,463	1,463	1,463	1,463	1,497	3	1			598
DWORSHAK	1,281	737	738	979	807	162				1
GREEN PETER-FOSTER	209	207	207	207	103	3		38	24	
HILLS CREEK	2		9	18						
ICE HARBOR FISH BYPA										
ICE HARBOR	3,837	3,833	4,659	4,123	3,541	3,802	205	331		
JOHN DAY	2,727	2,730	2,730	1,649	1,649	3	1			
LIBBY	1,665	1,870	1,917	1,917	145	309	157			
LITTLE GOOSE FISH BY										
LITTLE GOOSE	4,840	4,887	5,005	5,008	3,950	567		2	72	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	56	56	56	56	56	11		1		
LOST CREEK	86	84	116	147	65			17		
LOWER GRANITE	3,738	4,126	4,126	4,059	3,178	1,006			46	
LOWER MONUMENTAL	2,756	2,756	2,756	2,724	2,233	120				1,614
MCNARY	6,945	6,945	6,945	6,468	6,468	7,421		714		
MCNARY FISH BYPASS										
STRUBE										
THE DALLES	4,515	4,416	3,659	2,134	1,383	255				1,835
TOTAL CORPS	118,569	119,750	98,110	69,641	48,263	22,052	1,932	2,667	473	4,147
LOWER SNAKE F AND W	1,005	850	850	693	808	126			57	

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	140,367	137,177	116,504	90,457	55,969	22,292	1,946	4,712	5,139	4,147
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BPA BORROWING

BPA PROGRAM	992	192								
BPA CONSERVATION	2,480									
FISH, WILDLIFE & ENV	2,189									
BUREAU DIRECT FUND	26,409	4,734								
IRRIGATION ASSISTANC										
PREMIUMS	13,668	3,150								
0LESS										
0 AFUDC										
0 INTEREST INCOME	23,039	23,603	22,677	23,663	24,123	23,018	24,173	24,173	22,642	24,173
0TOTAL BPA BORROWING	22,699	-15,527	-22,677	-23,663	-24,123	-23,018	-24,173	-24,173	-22,642	-24,173
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TOTALS	163,066	121,650	93,827	66,794	31,846	-726	-22,227	-19,461	-17,503	-20,026

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2005

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
BUREAU OF RECLAMATION										
BOISE			25							
COLUMBIA BASIN								1,286	230	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				178						
MINIDOKA			64					221		
YAKIMA-CHANDLER		25					15			
YAKIMA-ROZA				3					3	
TOTAL BUREAU		25	89	181			15	1,507	233	
CORPS OF ENGINEERS										
ALBENI FALLS	67					41				3
BONNEVILLE		1,665	1,140				1,568	103		675
BONNEVILLE - 2ND POW										
CHIEF JOSEPH			144					778	23	
COUGAR					67					4
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF					501				1	
DWORSHAK				166				1		
GREEN PETER-FOSTER								1		
HILLS CREEK										
ICE HARBOR FISH BYPA			1,732		292		5	372		633
ICE HARBOR										
JOHN DAY	199			1						
LIBBY	5		2			166	67			2
LITTLE GOOSE FISH BY										
LITTLE GOOSE		1,598			1	1			31	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	26					351				1
LOST CREEK								5		
LOWER GRANITE		2				1,386			17	1
LOWER MONUMENTAL			1	1						278
M McNARY	556		1			2,325				714
M McNARY FISH BYPASS										
STRUBE										
THE DALLES		2		603	99		1			1,192
TOTAL CORPS	853	3,267	3,020	771	960	4,270	1,641	1,260	72	3,503
LOWER SNAKE F AND W										
		16	14	490					1	17

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	853	3,308	3,123	1,442	960	4,270	1,656	2,767	306	3,520
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BPA BORROWING

BPA PROGRAM
 BPA CONSERVATION
 FISH, WILDLIFE & ENV
 BUREAU DIRECT FUND
 IRRIGATION ASSISTANC
 PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	24,207	22,676	24,207	24,207	23,209	24,207	24,207	23,205	24,207	24,207
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0TOTAL BPA BORROWING	-24,207	-22,676	-24,207	-24,207	-23,209	-24,207	-24,207	-23,205	-24,207	-24,207
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TOTALS	-23,354	-19,368	-21,084	-22,765	-22,249	-19,937	-22,551	-20,438	-23,901	-20,687
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2005

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
BUREAU OF RECLAMATION										
BOISE								27		
COLUMBIA BASIN								4,967	1,434	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				200						
MINIDOKA			51					110		
YAKIMA-CHANDLER							24			
YAKIMA-ROZA									6	
TOTAL BUREAU			51	200			24	5,104	1,440	
CORPS OF ENGINEERS										
ALBENI FALLS						1				
BONNEVILLE		2,217	28			99	4,228			4
BONNEVILLE - 2ND POW										
CHIEF JOSEPH								37	1,819	
COUGAR					42					
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF		15			735					
DWORSHAK				328		2			263	
GREEN PETER-FOSTER			3	2				126	459	
HILLS CREEK			46							
ICE HARBOR FISH BYPA			1,171				922	331		
ICE HARBOR			1			71		1		
JOHN DAY	15					5	278			
LIBBY										
LITTLE GOOSE FISH BY										
LITTLE GOOSE		329		58			793		283	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER						221				
LOST CREEK										
LOWER GRANITE						244		2	260	
LOWER MONUMENTAL		58			761		1			1,290
MCNARY				1		1,979	1			
MCNARY FISH BYPASS										
STRUBE										
THE DALLES				409	1	43		2	49	33
TOTAL CORPS	15	2,619	1,249	798	1,539	2,665	6,223	499	3,133	1,327
LOWER SNAKE F AND W				259			14	3	1	

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	15	2,619	1,300	1,257	1,539	2,665	6,261	5,606	4,574	1,327
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BPA BORROWING

BPA PROGRAM
 BPA CONSERVATION
 FISH, WILDLIFE & ENV
 BUREAU DIRECT FUND
 IRRIGATION ASSISTANC
 PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	23,050	24,207	24,207	23,081	24,207	24,207	22,849	24,207	24,207	23,412
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0TOTAL BPA BORROWING	-23,050	-24,207	-24,207	-23,081	-24,207	-24,207	-22,849	-24,207	-24,207	-23,412
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TOTALS	-23,035	-21,588	-22,907	-21,824	-22,668	-21,542	-16,588	-18,601	-19,633	-22,085
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BPA BORROWING

BPA PROGRAM						
BPA CONSERVATION						
FISH, WILDLIFE & ENV						
BUREAU DIRECT FUND						
IRRIGATION ASSISTANC						
PREMIUMS						
0 LESS						
0 AFUDC						
0 INTEREST INCOME	24,207	24,207	23,137	24,207	24,207	34,568
0 TOTAL BPA BORROWING	-24,207	-24,207	-23,137	-24,207	-24,207	-34,568
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TOTALS	-22,333	-20,758	-18,827	-19,533	-24,068	-31,024

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SUMMARY OF INTEREST EXPENSE GENERATION FY 2005 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

	TOTALS
BUREAU OF RECLAMATION	
BOISE	6,911
COLUMBIA BASIN	157,661
COLUMBIA BASIN - 3RD	588,220
HUNGRY HORSE	19,733
MINIDOKA	81,814
YAKIMA-CHANDLER	1,117
YAKIMA-ROZA	331
TOTAL BUREAU	855,787
CORPS OF ENGINEERS	
ALBENI FALLS	11,987
BONNEVILLE	353,741
BONNEVILLE - 2ND POW	502,064
CHIEF JOSEPH	381,684
COUGAR	9,810
COLUMBIA RIVER FISH	1,220,125
DETROIT-BIG CLIFF	25,384
DWORSHAK	174,579
GREEN PETER-FOSTER	5,625
HILLS CREEK	9,031
ICE HARBOR FISH BYPA	
ICE HARBOR	128,941
JOHN DAY	175,454
LIBBY	290,489
LITTLE GOOSE FISH BY	
LITTLE GOOSE	192,683

LOWER GRANITE FISH B	
LOWER MONUMENTAL FIS	
LOOKOUT POINT-DEXTER	13,783
LOST CREEK	17,699
LOWER GRANITE	230,524
LOWER MONUMENTAL	139,975
MCNARY	172,862
MCNARY FISH BYPASS	
STRUBE	
THE DALLES	204,702
TOTAL CORPS	4,261,142
LOWER SNAKE F AND W	341,730
TOTAL APPROPRIATIONS	5,458,659
BONNEVILLE POWER ADM	
BPA BORROWING	
BPA PROGRAM	33,877
BPA CONSERVATION	491,212
FISH, WILDLIFE & ENV	289,332
BUREAU DIRECT FUND	604,693
IRRIGATION ASSISTANC	
PREMIUMS	23,066
0LESS	
0 AFUDC	
0 INTEREST INCOME	1,199,246
0TOTAL BPA BORROWING	242,934

TOTALS	5,701,593

**Application of Amortization
Generation
FY 2005 Current Repayment Study**

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APPLICATION OF AMORTIZATION GENERATION FY 2005 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR -----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
2000							
COLUMBIA BASIN	1995	2000	25	25	.06620		25
HUNGRY HORSE	1995	2000	6	6	.06620	R	6
HUNGRY HORSE	1995	2000	84	84	.06620		84
BUREAU DIRECT FUND	1997	2000	50,000	50,000	.06500		50,000
BPA PROGRAM	1995	2025	67	67	.07700		67
LOWER MONUMENTAL	1996	2016	668	668	.07290		668
JOHN DAY	1996	2016	1,072	1,072	.07290		1,072
BONNEVILLE	1996	2016	834	834	.07290	R	834
ALBENI FALLS	1996	2016	130	130	.07290		130
LOWER GRANITE	1995	2017	458	458	.07290		458
LOWER GRANITE	1995	2017	388	388	.07290		388
LOWER GRANITE	1995	2017	77	77	.07290	R	77
GREEN PETER-FOSTER	1967	2017	11,919	11,919	.07290		11,919
COLUMBIA BASIN	1967	2017	758	758	.07290		758
GREEN PETER-FOSTER	1987	2018	1	1	.07280		1
GREEN PETER-FOSTER	1986	2018	3	3	.07280		3
GREEN PETER-FOSTER	1985	2018	16	16	.07280		16
GREEN PETER-FOSTER	1983	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1982	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1981	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1980	2018	40	40	.07280	R	40
GREEN PETER-FOSTER	1979	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1978	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1977	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1976	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1975	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1974	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1973	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1972	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1971	2018	39	39	.07280	R	39
GREEN PETER-FOSTER	1970	2018	40	40	.07280	R	40
GREEN PETER-FOSTER	1969	2018	39	39	.07280	R	39
JOHN DAY	1968	2018	21,686	21,686	.07280		21,686
GREEN PETER-FOSTER	1968	2018	12,180	12,180	.07280		1,652

TOTAL							90,431

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APPLICATION OF AMORTIZATION GENERATION FY 2005 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR -----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2001	COLUMBIA BASIN	1956	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1956	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1957	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1957	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1958	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1958	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1959	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1959	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1960	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1960	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1961	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1961	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1962	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1962	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1963	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1963	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1964	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1964	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1965	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1965	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1966	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1966	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1967	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1967	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1968	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1968	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1969	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1969	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1970	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1970	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1971	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1971	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1972	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1972	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1973	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1973	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1974	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1974	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1975	2001	258	258	.06710	R	258

YEAR	APPLICATION OF AMORTIZATION	GENERATION	FY 2005	REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL				
	-----INVESTMENT PAID-----							
(ALL AMOUNT IN \$1000)								
	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2002	BPA CONSERVATION	1989	2002	66,000	66,000	.08650		66,000
	LOWER MONUMENTAL	1969	2019	25,083	2,402	.07270		2,402
	JOHN DAY	1969	2019	96,104	96,104	.07270		38,999
	TOTAL							107,401
2003	FISH, WILDLIFE & ENVIRONMENTAL	1999	2003	20,000	20,000	.06300		20,000
	BPA PROGRAM	1996	2003	5,622	5,622	.05900		5,622
	HUNGRY HORSE	1955	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	1	1	.06840	R	1
	HUNGRY HORSE	1957	2003	18	18	.06840	R	18
	HUNGRY HORSE	1957	2003	1	1	.06840	R	1
	HUNGRY HORSE	1958	2003	18	18	.06840	R	18
	HUNGRY HORSE	1958	2003	1	1	.06840	R	1
	HUNGRY HORSE	1959	2003	18	18	.06840	R	18
	HUNGRY HORSE	1959	2003	1	1	.06840	R	1
	HUNGRY HORSE	1960	2003	18	18	.06840	R	18
	HUNGRY HORSE	1960	2003	1	1	.06840	R	1
	HUNGRY HORSE	1961	2003	18	18	.06840	R	18
	HUNGRY HORSE	1961	2003	1	1	.06840	R	1
	HUNGRY HORSE	1962	2003	18	18	.06840	R	18
	HUNGRY HORSE	1962	2003	1	1	.06840	R	1
	HUNGRY HORSE	1963	2003	18	18	.06840	R	18
	HUNGRY HORSE	1963	2003	1	1	.06840	R	1
	HUNGRY HORSE	1964	2003	17	17	.06840	R	17
	HUNGRY HORSE	1964	2003	1	1	.06840	R	1
	HUNGRY HORSE	1965	2003	17	17	.06840	R	17
	HUNGRY HORSE	1965	2003	1	1	.06840	R	1
	HUNGRY HORSE	1966	2003	17	17	.06840	R	17
	HUNGRY HORSE	1966	2003	1	1	.06840	R	1
	HUNGRY HORSE	1967	2003	18	18	.06840	R	18
	HUNGRY HORSE	1967	2003	1	1	.06840	R	1
	HUNGRY HORSE	1968	2003	18	18	.06840	R	18
	HUNGRY HORSE	1968	2003	1	1	.06840	R	1
	HUNGRY HORSE	1953	2003	490	490	.06840		490
	HUNGRY HORSE	1953	2003	16,359	16,359	.06840		16,359
	DETROIT-BIG CLIFF	1953	2003	3,078	3,078	.06840		3,078
	HUNGRY HORSE	1969	2003	18	18	.06840	R	18

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HUNGRY HORSE	1969	2003	1	1	.06840	R	1
HUNGRY HORSE	1955	2003	1	1	.06840	R	1
HUNGRY HORSE	1970	2003	18	18	.06840	R	18
HUNGRY HORSE	1970	2003	1	1	.06840	R	1
HUNGRY HORSE	1971	2003	18	18	.06840	R	18
HUNGRY HORSE	1971	2003	1	1	.06840	R	1
HUNGRY HORSE	1972	2003	18	18	.06840	R	18
HUNGRY HORSE	1972	2003	1	1	.06840	R	1
HUNGRY HORSE	1973	2003	18	18	.06840	R	18
HUNGRY HORSE	1973	2003	1	1	.06840	R	1
HUNGRY HORSE	1974	2003	17	17	.06840	R	17
HUNGRY HORSE	1974	2003	1	1	.06840	R	1
HUNGRY HORSE	1975	2003	17	17	.06840	R	17
HUNGRY HORSE	1975	2003	1	1	.06840	R	1
HUNGRY HORSE	1976	2003	10	10	.06840	R	10
HUNGRY HORSE	1976	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	17	17	.06840	R	17
HUNGRY HORSE	1977	2003	18	18	.06840	R	18
HUNGRY HORSE	1977	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	1	1	.06840	R	1
HUNGRY HORSE	1978	2003	18	18	.06840	R	18
HUNGRY HORSE	1978	2003	1	1	.06840	R	1
HUNGRY HORSE	1979	2003	18	18	.06840	R	18
HUNGRY HORSE	1979	2003	1	1	.06840	R	1
HUNGRY HORSE	1980	2003	18	18	.06840	R	18
HUNGRY HORSE	1980	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1982	2003	1	1	.06840	R	1
HUNGRY HORSE	1983	2003	12	12	.06840	R	12
HUNGRY HORSE	1983	2003	1	1	.06840	R	1
JOHN DAY	1969	2019	96,104	57,105	.07270		26,922
TOTAL							72,984

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2004	DETROIT-BIG CLIFF	1956	2004	19	19	.06880	R	19
	BUREAU DIRECT FUND	1999	2004	20,000	20,000	.06400		20,000
	DETROIT-BIG CLIFF	1957	2004	18	18	.06880	R	18
	BPA PROGRAM	1997	2004	7,400	7,400	.06800		7,400
	DETROIT-BIG CLIFF	1958	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1959	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1960	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1961	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1962	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1963	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1964	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1965	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1966	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1967	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1968	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1969	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1970	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1971	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1972	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1973	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1974	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1975	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1976	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1954	2004	20,162	20,162	.06880		20,162
	DETROIT-BIG CLIFF	1977	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1978	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1979	2004	18	18	.06880	R	18
	MCNARY	1954	2004	35,757	35,757	.06880		35,757
	DETROIT-BIG CLIFF	1980	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1981	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1982	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1983	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1985	2004	6	6	.06880		6
	DETROIT-BIG CLIFF	1987	2004	3	3	.06880		3
	DETROIT-BIG CLIFF	1955	2004	18	18	.06880	R	18
	JOHN DAY	1969	2019	96,104	30,183	.07270		8,421
	TOTAL							----- 92,285

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2005	MCNARY	1955	2005	53,493	53,493	.06910		53,493
	ALBENI FALLS	1956	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1956	2005	52	52	.06910	R	52
	ALBENI FALLS	1957	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1957	2005	51	51	.06910	R	51
	ALBENI FALLS	1958	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1958	2005	51	51	.06910	R	51
	ALBENI FALLS	1959	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1955	2005	28,417	28,417	.06910		28,417
	LOOKOUT POINT-DEXTER	1959	2005	51	51	.06910	R	51
	ALBENI FALLS	1960	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1960	2005	51	51	.06910	R	51
	ALBENI FALLS	1961	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1961	2005	52	52	.06910	R	52
	ALBENI FALLS	1962	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1962	2005	51	51	.06910	R	51
	ALBENI FALLS	1963	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1963	2005	51	51	.06910	R	51
	ALBENI FALLS	1964	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1964	2005	51	51	.06910	R	51
	ALBENI FALLS	1965	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1965	2005	51	51	.06910	R	51
	ALBENI FALLS	1966	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1966	2005	51	51	.06910	R	51
	ALBENI FALLS	1967	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1967	2005	52	52	.06910	R	52
	ALBENI FALLS	1968	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1968	2005	51	51	.06910	R	51
	ALBENI FALLS	1969	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1969	2005	51	51	.06910	R	51
	ALBENI FALLS	1970	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1970	2005	51	51	.06910	R	51
	ALBENI FALLS	1971	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1971	2005	51	51	.06910	R	51
	ALBENI FALLS	1972	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1972	2005	51	51	.06910	R	51
	ALBENI FALLS	1973	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1973	2005	52	52	.06910	R	52
	ALBENI FALLS	1974	2005	11	11	.06910	R	11

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
LOOKOUT POINT-DEXTER	1974	2005	51	51	.06910	R	51
ALBENI FALLS	1975	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1975	2005	51	51	.06910	R	51
ALBENI FALLS	1976	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1976	2005	51	51	.06910	R	51
ALBENI FALLS	1977	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1977	2005	51	51	.06910	R	51
ALBENI FALLS	1978	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1978	2005	51	51	.06910	R	51
ALBENI FALLS	1979	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1979	2005	52	52	.06910	R	52
ALBENI FALLS	1980	2005	11	11	.06910	R	11
ALBENI FALLS	1955	2005	16,854	16,854	.06910		16,854
LOOKOUT POINT-DEXTER	1980	2005	51	51	.06910	R	51
ALBENI FALLS	1981	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1981	2005	51	51	.06910	R	51
ALBENI FALLS	1982	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1982	2005	51	51	.06910	R	51
ALBENI FALLS	1983	2005	11	11	.06910	R	11
CHIEF JOSEPH	1955	2005	2,262	2,262	.06910		2,262
LOOKOUT POINT-DEXTER	1983	2005	51	51	.06910	R	51
ALBENI FALLS	1985	2005	7	7	.06910		7
LOOKOUT POINT-DEXTER	1985	2005	52	52	.06910		52
ALBENI FALLS	1986	2005	293	293	.06910		293
LOOKOUT POINT-DEXTER	1986	2005	42	42	.06910		42
ALBENI FALLS	1987	2005	12	12	.06910		12
LOOKOUT POINT-DEXTER	1987	2005	9	9	.06910		9
BPA PROGRAM	2000	2045	4,100	4,100	.07540		4,100
BUREAU DIRECT FUND	2000	2045	95,369	95,369	.07540		17,531
YAKIMA-ROZA	1987	2008	2	2	.07020		2
MINIDOKA	1987	2008	16	16	.07020		16
YAKIMA-ROZA	1986	2008	6	6	.07020		6
MINIDOKA	1986	2008	21	21	.07020		21
YAKIMA-ROZA	1985	2008	69	69	.07020		69
MINIDOKA	1985	2008	21	21	.07020		21
CHIEF JOSEPH	1985	2008	46	46	.07020		46
MINIDOKA	1983	2008	20	20	.07020	R	20
MINIDOKA	1983	2008	65	65	.07020	R	65
CHIEF JOSEPH	1983	2008	224	224	.07020	R	224

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
MINIDOKA	1982	2008	19	19	.07020	R	19
MINIDOKA	1982	2008	75	75	.07020	R	75
CHIEF JOSEPH	1982	2008	223	223	.07020	R	223
MINIDOKA	1981	2008	20	20	.07020	R	20
MINIDOKA	1981	2008	75	75	.07020	R	75
CHIEF JOSEPH	1981	2008	223	223	.07020	R	223
MINIDOKA	1980	2008	20	20	.07020	R	20
MINIDOKA	1980	2008	75	75	.07020	R	75
CHIEF JOSEPH	1980	2008	223	223	.07020	R	223
MINIDOKA	1979	2008	19	19	.07020	R	19
MINIDOKA	1979	2008	75	75	.07020	R	75
CHIEF JOSEPH	1979	2008	223	223	.07020	R	223
MINIDOKA	1978	2008	20	20	.07020	R	20
MINIDOKA	1978	2008	75	75	.07020	R	75
CHIEF JOSEPH	1978	2008	224	224	.07020	R	224
MINIDOKA	1977	2008	56	56	.07020	R	56
CHIEF JOSEPH	1977	2008	223	223	.07020	R	223
CHIEF JOSEPH	1976	2008	223	223	.07020	R	223
CHIEF JOSEPH	1975	2008	223	223	.07020	R	223
CHIEF JOSEPH	1974	2008	223	223	.07020	R	223
CHIEF JOSEPH	1973	2008	224	224	.07020	R	224
CHIEF JOSEPH	1972	2008	223	223	.07020	R	223
CHIEF JOSEPH	1971	2008	223	223	.07020	R	223
CHIEF JOSEPH	1970	2008	223	223	.07020	R	223
THE DALLES	1996	2008	196	196	.07020		196
CHIEF JOSEPH	1969	2008	223	223	.07020	R	223
CHIEF JOSEPH	1968	2008	224	224	.07020	R	224
CHIEF JOSEPH	1967	2008	223	223	.07020	R	223
CHIEF JOSEPH	1966	2008	223	223	.07020	R	223
CHIEF JOSEPH	1965	2008	223	223	.07020	R	223
CHIEF JOSEPH	1964	2008	223	223	.07020	R	223
CHIEF JOSEPH	1963	2008	224	224	.07020	R	224
CHIEF JOSEPH	1962	2008	223	223	.07020	R	223
CHIEF JOSEPH	1961	2008	223	223	.07020	R	223
CHIEF JOSEPH	1960	2008	223	223	.07020	R	223
CHIEF JOSEPH	1959	2008	223	223	.07020	R	223
YAKIMA-ROZA	1958	2008	161	161	.07020		161
YAKIMA-ROZA	1958	2008	533	533	.07020		533
THE DALLES	1958	2008	33,988	33,988	.07020		16,640

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT

TOTAL							148,709
2006							
CHIEF JOSEPH	1956	2006	13,643	13,643	.06950		13,643
MCNARY	1956	2006	38,748	38,748	.06950		38,748
BOISE	1996	2006	7	7	.06950		7
MCNARY	1996	2006	778	778	.06950		778
DETROIT-BIG CLIFF	1996	2006	24	24	.06950		24
THE DALLES	1958	2008	33,988	17,348	.07020		17,348
CHIEF JOSEPH	1958	2008	31,901	31,901	.07020		31,901
MCNARY	1986	2007	454	454	.06980		454
MCNARY	1985	2007	557	557	.06980		557
MCNARY	1983	2007	468	468	.06980	R	468
MCNARY	1982	2007	467	467	.06980	R	467
MCNARY	1981	2007	468	468	.06980	R	468
MCNARY	1980	2007	468	468	.06980	R	468
MCNARY	1979	2007	468	468	.06980	R	468
MCNARY	1978	2007	468	468	.06980	R	468
MCNARY	1977	2007	467	467	.06980	R	467
MCNARY	1976	2007	468	468	.06980	R	468
MCNARY	1975	2007	468	468	.06980	R	468
MCNARY	1974	2007	468	468	.06980	R	468
MCNARY	1973	2007	467	467	.06980	R	467
MCNARY	1972	2007	468	468	.06980	R	468
MCNARY	1971	2007	468	468	.06980	R	468
MCNARY	1970	2007	468	468	.06980	R	468
MCNARY	1987	2007	24	24	.06980		24
MCNARY	1969	2007	468	468	.06980	R	468
MCNARY	1968	2007	468	468	.06980	R	468
MCNARY	1967	2007	467	467	.06980	R	467
MCNARY	1966	2007	468	468	.06980	R	468
MCNARY	1965	2007	468	468	.06980	R	468
MCNARY	1964	2007	468	468	.06980	R	468
MCNARY	1963	2007	468	468	.06980	R	468
MCNARY	1962	2007	467	467	.06980	R	467
MCNARY	1961	2007	468	468	.06980	R	468
MCNARY	1960	2007	468	468	.06980	R	468
MCNARY	1959	2007	468	468	.06980	R	468
MCNARY	1958	2007	468	468	.06980	R	468
MCNARY	1957	2007	24,985	24,985	.06980		3,029

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	TOTAL							----- 118,676
2007	CHIEF JOSEPH	1957	2007	39,586	39,586	.06980		39,586
	MCNARY	1957	2007	24,985	21,956	.06980		21,956
	BOISE	1997	2007	9	9	.06950		9
	HUNGRY HORSE	1997	2007	154	154	.06950		154
	MINIDOKA	1997	2007	66	66	.06950		66
	FISH, WILDLIFE & ENVIRONMENTAL	1993	2008	20,000	20,000	.06950		20,000
	BUREAU DIRECT FUND	1998	2008	25,000	25,000	.06000		25,000
	TOTAL							----- 106,771
2008	BPA CONSERVATION	1998	2008	104,300	104,300	.05300		104,300
	TOTAL							----- 104,300
2009	BPA CONSERVATION	1998	2009	37,700	37,700	.06000		37,700
	BPA CONSERVATION	1989	2009	40,000	40,000	.08550		40,000
	THE DALLES	1959	2009	40,415	40,415	.07060		40,415
	BUREAU DIRECT FUND	2000	2045	95,369	77,838	.07540		2,145
	TOTAL							----- 120,260
2010	MINIDOKA	2000	2010	81	81	.06520		81
	THE DALLES	1960	2010	39,179	39,179	.07090		39,179
	MCNARY	1995	2010	509	509	.07090		509
	ALBENI FALLS	1995	2010	17	17	.07090		17
	FISH, WILDLIFE & ENVIRONMENTAL	1995	2010	22,900	22,900	.07200		22,900
	CHIEF JOSEPH	1995	2010	15	15	.07090		15
	BONNEVILLE	1995	2010	25	25	.07090	R	25
	BUREAU DIRECT FUND	2000	2045	95,369	75,693	.07540		65,600
	TOTAL							----- 128,326
2011	THE DALLES	1987	2011	1,417	1,417	.07130		1,417
	BPA CONSERVATION	1996	2011	30,000	30,000	.06700		30,000
	MINIDOKA	2001	2011	80	80	.06190		80
	THE DALLES	1985	2011	95	95	.07130		95
	BOISE	2001	2011	4	4	.06190		4
	THE DALLES	1961	2011	9,492	9,492	.07130		9,492
	BOISE	2001	2011	27	27	.06190		27
	THE DALLES	1962	2011	56	56	.07130	R	56
	THE DALLES	1963	2011	57	57	.07130	R	57

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
THE DALLES	1964	2011	57	57	.07130	R	57
THE DALLES	1965	2011	56	56	.07130	R	56
THE DALLES	1966	2011	57	57	.07130	R	57
THE DALLES	1967	2011	57	57	.07130	R	57
DWORSHAK	1996	2011	107	107	.07130		107
THE DALLES	1986	2011	95	95	.07130		95
THE DALLES	1968	2011	56	56	.07130	R	56
THE DALLES	1996	2011	457	457	.07130		457
MINIDOKA	1996	2011	54	54	.07130		54
THE DALLES	1969	2011	57	57	.07130	R	57
THE DALLES	1970	2011	57	57	.07130	R	57
THE DALLES	1971	2011	56	56	.07130	R	56
MCNARY	1996	2011	3	3	.07130		3
THE DALLES	1972	2011	57	57	.07130	R	57
THE DALLES	1973	2011	57	57	.07130	R	57
THE DALLES	1974	2011	56	56	.07130	R	56
THE DALLES	1975	2011	57	57	.07130	R	57
LOWER GRANITE	1996	2011	255	255	.07130		255
THE DALLES	1976	2011	57	57	.07130	R	57
THE DALLES	1977	2011	56	56	.07130	R	56
THE DALLES	1978	2011	57	57	.07130	R	57
THE DALLES	1979	2011	57	57	.07130	R	57
THE DALLES	1980	2011	56	56	.07130	R	56
JOHN DAY	1996	2011	237	237	.07130		237
THE DALLES	1981	2011	57	57	.07130	R	57
THE DALLES	1982	2011	57	57	.07130	R	57
THE DALLES	1983	2011	56	56	.07130	R	56
BUREAU DIRECT FUND	2000	2045	95,369	10,093	.07540		10,093
JOHN DAY	1969	2019	96,104	21,762	.07270		21,762
LOWER MONUMENTAL	1983	2020	214	214	.07250	R	214
GREEN PETER-FOSTER	1995	2020	11	11	.07250		11
GREEN PETER-FOSTER	1995	2020	24	24	.07250		24
BONNEVILLE	1995	2020	22	22	.07250	R	22
BONNEVILLE	1995	2020	20	20	.07250		20
LOWER MONUMENTAL	1982	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1981	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1980	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1979	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1978	2020	214	214	.07250	R	214

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+							
JOHN DAY	1995	2020	79	79	.07250		79
LOWER MONUMENTAL	1977	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1976	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1975	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1974	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1973	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1972	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1971	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1970	2020	51,218	51,218	.07250		42,784
TOTAL							121,146
2012							
ICE HARBOR	1986	2012	137	137	.07160		137
MINIDOKA	2002	2012	80	80	.05940		80
HILLS CREEK	1962	2012	9,264	9,264	.07160		9,264
ICE HARBOR	1962	2012	44,308	44,308	.07160		44,308
ICE HARBOR	1962	2012	493	493	.07160		493
HILLS CREEK	1963	2012	12	12	.07160	R	12
BOISE	2002	2012	27	27	.05940		27
ICE HARBOR	1963	2012	46	46	.07160	R	46
ICE HARBOR	1963	2012	1	1	.07160	R	1
HILLS CREEK	1964	2012	13	13	.07160	R	13
ICE HARBOR	1964	2012	46	46	.07160	R	46
ICE HARBOR	1964	2012	1	1	.07160	R	1
HILLS CREEK	1983	2012	13	13	.07160	R	13
HILLS CREEK	1965	2012	13	13	.07160	R	13
ICE HARBOR	1965	2012	46	46	.07160	R	46
ICE HARBOR	1965	2012	1	1	.07160	R	1
HILLS CREEK	1966	2012	13	13	.07160	R	13
ICE HARBOR	1966	2012	46	46	.07160	R	46
ICE HARBOR	1966	2012	1	1	.07160	R	1
HILLS CREEK	1967	2012	13	13	.07160	R	13
ICE HARBOR	1967	2012	46	46	.07160	R	46
ICE HARBOR	1967	2012	1	1	.07160	R	1
HILLS CREEK	1968	2012	13	13	.07160	R	13
ICE HARBOR	1968	2012	46	46	.07160	R	46
ICE HARBOR	1968	2012	1	1	.07160	R	1
HILLS CREEK	1969	2012	13	13	.07160	R	13
ICE HARBOR	1969	2012	46	46	.07160	R	46
ICE HARBOR	1969	2012	1	1	.07160	R	1

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HILLS CREEK	1970	2012	13	13	.07160	R	13
ICE HARBOR	1970	2012	46	46	.07160	R	46
ICE HARBOR	1970	2012	1	1	.07160	R	1
HILLS CREEK	1971	2012	13	13	.07160	R	13
ICE HARBOR	1971	2012	46	46	.07160	R	46
ICE HARBOR	1971	2012	1	1	.07160	R	1
HILLS CREEK	1972	2012	13	13	.07160	R	13
ICE HARBOR	1972	2012	46	46	.07160	R	46
ICE HARBOR	1982	2012	1	1	.07160	R	1
ICE HARBOR	1982	2012	46	46	.07160	R	46
ICE HARBOR	1972	2012	1	1	.07160	R	1
HILLS CREEK	1982	2012	13	13	.07160	R	13
ICE HARBOR	1985	2012	41	41	.07160		41
HILLS CREEK	1973	2012	13	13	.07160	R	13
ICE HARBOR	1973	2012	46	46	.07160	R	46
ICE HARBOR	1973	2012	1	1	.07160	R	1
ICE HARBOR	1983	2012	46	46	.07160	R	46
HILLS CREEK	1974	2012	13	13	.07160	R	13
ICE HARBOR	1974	2012	46	46	.07160	R	46
ICE HARBOR	1974	2012	1	1	.07160	R	1
ICE HARBOR	1983	2012	1	1	.07160	R	1
HILLS CREEK	1985	2012	6	6	.07160		6
HILLS CREEK	1975	2012	13	13	.07160	R	13
ICE HARBOR	1975	2012	46	46	.07160	R	46
ICE HARBOR	1975	2012	1	1	.07160	R	1
HILLS CREEK	1976	2012	13	13	.07160	R	13
ICE HARBOR	1976	2012	46	46	.07160	R	46
ICE HARBOR	1976	2012	1	1	.07160	R	1
HILLS CREEK	1977	2012	13	13	.07160	R	13
ICE HARBOR	1977	2012	46	46	.07160	R	46
ICE HARBOR	1977	2012	1	1	.07160	R	1
HILLS CREEK	1978	2012	13	13	.07160	R	13
ICE HARBOR	1978	2012	46	46	.07160	R	46
ICE HARBOR	1981	2012	1	1	.07160	R	1
ICE HARBOR	1981	2012	46	46	.07160	R	46
ICE HARBOR	1978	2012	1	1	.07160	R	1
HILLS CREEK	1979	2012	13	13	.07160	R	13
HILLS CREEK	1981	2012	13	13	.07160	R	13
ICE HARBOR	1979	2012	46	46	.07160	R	46

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ICE HARBOR	1979	2012	1	1	.07160	R	1
HILLS CREEK	1980	2012	13	13	.07160	R	13
ICE HARBOR	1980	2012	46	46	.07160	R	46
ICE HARBOR	1980	2012	1	1	.07160	R	1
ICE HARBOR	1987	2012	3	3	.07160		3
LOWER MONUMENTAL	1970	2020	51,218	8,434	.07250		8,434
LITTLE GOOSE	1970	2020	21,301	21,301	.07250		21,301
JOHN DAY	1970	2020	23,656	23,656	.07250		14,106
TOTAL							99,459
2013	BPA CONSERVATION	1998	2013	52,800	52,800	.05600	52,800
	FISH, WILDLIFE & ENVIRONMENTAL	1998	2013	60,000	60,000	.06100	60,000
	MINIDOKA	2003	2013	80	80	.05750	80
	BOISE	2003	2013	27	27	.05750	27
	BPA CONSERVATION	1993	2013	40,000	40,000	.06750	40,000
	JOHN DAY	1970	2020	23,656	9,550	.07250	9,550
	LOWER MONUMENTAL	1986	2020	132	132	.07250	132
	LOWER MONUMENTAL	1985	2020	8	8	.07250	8
	LOWER MONUMENTAL	1987	2020	3	3	.07250	3
	COUGAR	1981	2014	20	20	.07230	R 20
	COUGAR	1980	2014	20	20	.07230	R 20
	COUGAR	1979	2014	20	20	.07230	R 20
	COUGAR	1978	2014	20	20	.07230	R 20
	COUGAR	1985	2014	1	1	.07230	1
	COUGAR	1977	2014	20	20	.07230	R 20
	COUGAR	1987	2014	45	45	.07230	45
	COUGAR	1976	2014	20	20	.07230	R 20
	COUGAR	1975	2014	20	20	.07230	R 20
	COUGAR	1974	2014	19	19	.07230	R 19
	COUGAR	1982	2014	20	20	.07230	R 20
	COUGAR	1973	2014	20	20	.07230	R 20
	COUGAR	1972	2014	20	20	.07230	R 20
	COUGAR	1971	2014	20	20	.07230	R 20
	COUGAR	1970	2014	20	20	.07230	R 20
	COUGAR	1969	2014	20	20	.07230	R 20
	COUGAR	1968	2014	20	20	.07230	R 20
	COUGAR	1986	2014	104	104	.07230	104
	COUGAR	1967	2014	20	20	.07230	R 20
	COUGAR	1983	2014	20	20	.07230	R 20

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COUGAR	1966	2014	20	20	.07230	R	20
COUGAR	1965	2014	20	20	.07230	R	20
COUGAR	1964	2014	9,042	9,042	.07230		9,042
LITTLE GOOSE	1979	2021	29	29	.07230	R	29
LITTLE GOOSE	1978	2021	28	28	.07230	R	28
LITTLE GOOSE	1977	2021	29	29	.07230	R	29
LITTLE GOOSE	1981	2021	29	29	.07230	R	29
LITTLE GOOSE	1983	2021	29	29	.07230	R	29
LITTLE GOOSE	1976	2021	28	28	.07230	R	28
LITTLE GOOSE	1987	2021	6	6	.07230		6
LITTLE GOOSE	1975	2021	29	29	.07230	R	29
LITTLE GOOSE	1974	2021	28	28	.07230	R	28
LOWER MONUMENTAL	1996	2021	37	37	.07230		37
LOWER MONUMENTAL	1996	2021	51	51	.07230		51
LITTLE GOOSE	1973	2021	29	29	.07230	R	29
LITTLE GOOSE	1972	2021	28	28	.07230	R	28
LITTLE GOOSE	1971	2021	42,962	42,962	.07230		42,962
JOHN DAY	1971	2021	34,974	34,974	.07230		34,974
LITTLE GOOSE	1982	2021	28	28	.07230	R	28
DWORSHAK	1996	2021	26	26	.07230		26
LITTLE GOOSE	1985	2021	174	174	.07230		174
DWORSHAK	1996	2021	184	184	.07230		184
LITTLE GOOSE	1980	2021	28	28	.07230	R	28
LITTLE GOOSE	1986	2021	239	239	.07230		239
LIBBY	1997	2022	432	432	.07230		432
BONNEVILLE	1997	2022	122	122	.07230		122
JOHN DAY	1997	2022	133	133	.07230		133
ICE HARBOR	1997	2022	66	66	.07230		66
JOHN DAY	1987	2022	706	706	.07210		706
JOHN DAY	1992	2022	19	19	.07210		19
JOHN DAY	1972	2022	11,502	11,502	.07210		11,502
JOHN DAY	1985	2022	6,490	6,490	.07210		1,706
TOTAL							265,852

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2014	BPA PROGRAM	1999	2014	11,080	11,080	.05900		11,080
	MINIDOKA	2004	2014	80	80	.05730		80
	BOISE	2004	2014	27	27	.05730		27
	BPA CONSERVATION	1994	2014	50,000	50,000	.06750		50,000
	JOHN DAY	1985	2022	6,490	4,784	.07210		4,784
	JOHN DAY	1990	2022	37	37	.07210		37
	YAKIMA-CHANDLER	1986	2022	455	455	.07210		455
	JOHN DAY	1989	2022	30	30	.07210		30
	YAKIMA-CHANDLER	1961	2022	1	1	.07210	R	1
	YAKIMA-CHANDLER	1960	2022	1	1	.07210	R	1
	YAKIMA-CHANDLER	1959	2022	1	1	.07210	R	1
	JOHN DAY	1986	2022	3,227	3,227	.07210		3,227
	YAKIMA-CHANDLER	1956	2022	216	216	.07210		216
	YAKIMA-CHANDLER	1956	2022	193	193	.07210		193
	DWORSHAK	1979	2023	518	518	.07190	R	518
	DWORSHAK	1987	2023	5	5	.07190		5
	DWORSHAK	1978	2023	3	3	.07190	R	3
	DWORSHAK	1978	2023	518	518	.07190	R	518
	DWORSHAK	1977	2023	3	3	.07190	R	3
	DWORSHAK	1977	2023	518	518	.07190	R	518
	DWORSHAK	1980	2023	3	3	.07190	R	3
	DWORSHAK	1985	2023	1,141	1,141	.07190		1,141
	DWORSHAK	1981	2023	518	518	.07190	R	518
	DWORSHAK	1976	2023	3	3	.07190	R	3
	DWORSHAK	1976	2023	518	518	.07190	R	518
	DWORSHAK	1980	2023	518	518	.07190	R	518
	DWORSHAK	1975	2023	3	3	.07190	R	3
	DWORSHAK	1975	2023	518	518	.07190	R	518
	DWORSHAK	1981	2023	3	3	.07190	R	3
	DWORSHAK	1974	2023	3	3	.07190	R	3
	DWORSHAK	1974	2023	515	515	.07190	R	515
	THE DALLES	1973	2023	21,983	21,983	.07190		21,983
	DWORSHAK	1982	2023	518	518	.07190	R	518
	DWORSHAK	1973	2023	803	803	.07190		803
	DWORSHAK	1973	2023	132,996	132,996	.07190		132,996
	DWORSHAK	1982	2023	3	3	.07190	R	3
	DWORSHAK	1983	2023	523	523	.07190	R	523
	DWORSHAK	1983	2023	3	3	.07190	R	3
	DWORSHAK	1986	2023	197	197	.07190		197

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DWORSHAK	1979	2023	3	3	.07190	R	3
THE DALLES	1974	2024	7,268	7,268	.07170		7,268
LOWER GRANITE	1977	2025	510	510	.07160	R	510
LOWER GRANITE	1976	2025	510	510	.07160	R	510
LOWER GRANITE	1981	2025	510	510	.07160	R	510
LOWER GRANITE	1975	2025	117,645	117,645	.07160		80,549
TOTAL							321,816
2015 FISH, WILDLIFE & ENVIRONMENTAL	2000	2015	27,000	27,000	.07240		27,000
BPA CONSERVATION	1995	2015	85,000	85,000	.07500		85,000
MINIDOKA	2005	2015	80	80	.05670		80
BOISE	2005	2015	27	27	.05670		27
BUREAU DIRECT FUND	1995	2015	35,000	35,000	.07500		35,000
LOWER GRANITE	1975	2025	117,645	37,096	.07160		37,096
LIBBY	1975	2025	48,138	48,138	.07160		48,138
COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	7,435	7,435	.07160		7,435
COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	36,690	36,690	.07160		36,690
LOWER GRANITE	1983	2025	510	510	.07160	R	510
LOWER GRANITE	1978	2025	510	510	.07160	R	510
LOWER GRANITE	1995	2025	96	96	.07160		96
LOWER GRANITE	1982	2025	510	510	.07160	R	510
LOWER GRANITE	1985	2025	328	328	.07160		328
LOWER GRANITE	1980	2025	510	510	.07160	R	510
LOWER GRANITE	1986	2025	215	215	.07160		215
LOWER GRANITE	1979	2025	510	510	.07160	R	510
LOWER GRANITE	1987	2025	8	8	.07160		8
LIBBY	1977	2026	1,465	1,465	.07150	R	1,465
LIBBY	1976	2026	153,432	153,432	.07150		55,719
TOTAL							336,847
2016 FISH, WILDLIFE & ENVIRONMENTAL	2001	2016	27,000	27,000	.06920		27,000
BONNEVILLE	2011	2016	56,400	56,400	.05559	R	56,400
LIBBY	1976	2026	153,432	97,713	.07150		97,713
ICE HARBOR	1976	2026	228	228	.07150		228
ICE HARBOR	1976	2026	20,472	20,472	.07150		20,472
COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	8,037	8,037	.07150		8,037
COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	41,330	41,330	.07150		41,330
LIBBY	1983	2026	1,465	1,465	.07150	R	1,465
COLUMBIA BASIN	1996	2026	76	76	.07150		76

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LIBBY	1981	2026	1,465	1,465	.07150	R	1,465
ICE HARBOR	1985	2026	21	21	.07150		21
LIBBY	1978	2026	1,465	1,465	.07150	R	1,465
LIBBY	1982	2026	1,465	1,465	.07150	R	1,465
LIBBY	1985	2026	518	518	.07150		518
MCNARY	1996	2026	74	74	.07150		74
MCNARY	1996	2026	277	277	.07150		277
LIBBY	1987	2026	2	2	.07150		2
LIBBY	1989	2026	1	1	.07150		1
LIBBY	1979	2026	1,465	1,465	.07150	R	1,465
LIBBY	1980	2026	1,465	1,465	.07150	R	1,465
LIBBY	1986	2026	283	283	.07150		283
LOST CREEK	1983	2027	60	60	.07150	R	60
LOST CREEK	1977	2027	13,413	13,413	.07150		13,413
LOST CREEK	1981	2027	60	60	.07150	R	60
COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	7,964	7,964	.07150		7,964
COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	42,764	42,764	.07150		35,950
TOTAL							318,669
2017 FISH, WILDLIFE & ENVIRONMENTAL	2002	2017	34,732	34,732	.06690		34,732
BPA CONSERVATION	1996	2017	40,000	40,000	.07200		40,000
ICE HARBOR	2012	2017	11,900	11,900	.05559	R	11,900
COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	42,764	6,814	.07150		6,814
CHIEF JOSEPH	1977	2027	30,512	30,512	.07150		30,512
BONNEVILLE	1977	2027	15,670	15,670	.07150		15,670
LOST CREEK	1979	2027	60	60	.07150	R	60
LOST CREEK	1978	2027	58	58	.07150	R	58
LOST CREEK	1985	2027	12	12	.07150		12
LOST CREEK	1982	2027	60	60	.07150	R	60
LOST CREEK	1987	2027	4	4	.07150		4
LOST CREEK	1980	2027	60	60	.07150	R	60
LOST CREEK	1986	2027	6	6	.07150		6
CHIEF JOSEPH	1978	2028	75,669	75,669	.07150		75,669
COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	7,896	7,896	.07150		7,896
COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	42,399	42,399	.07150		42,399
LOWER GRANITE	1978	2028	40,611	40,611	.07150		40,611
LITTLE GOOSE	1978	2028	49,578	49,578	.07150		49,578
LITTLE GOOSE	1985	2028	47	47	.07150		47
COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	15,666	15,666	.07150		15,666

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+	COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	84,118	84,118	.07150		78,355
	TOTAL							450,109
2018	FISH, WILDLIFE & ENVIRONMENTAL	2003	2018	38,317	38,317	.06500		38,317
	LOWER SNAKE F AND W	2013	2018	42	42	.05559	R	42
	MCNARY	2011	2018	25	25	.05624	R	25
	LOWER SNAKE F AND W	2011	2018	497	497	.05624	R	497
	LOWER MONUMENTAL	2011	2018	20	20	.05624	R	20
	LOOKOUT POINT-DEXTER	2011	2018	13	13	.05624	R	13
	LIBBY	2011	2018	60	60	.05624	R	60
	ICE HARBOR	2011	2018	22,500	22,500	.05624	R	22,500
	BONNEVILLE	2011	2018	24,000	24,000	.05624	R	24,000
	COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	84,118	5,763	.07150		5,763
	CHIEF JOSEPH	1979	2029	60,079	60,079	.07150		60,079
	CHIEF JOSEPH	1987	2029	3,036	3,036	.07150		3,036
	LOWER GRANITE	1994	2029	1,551	1,551	.07150		1,551
	LIBBY	1994	2029	152	152	.07150		152
	CHIEF JOSEPH	1990	2029	4,505	4,505	.07150		4,505
	CHIEF JOSEPH	1985	2029	16,372	16,372	.07150		16,372
	LOWER MONUMENTAL	1985	2029	256	256	.07150		256
	LOWER MONUMENTAL	1979	2029	40,669	40,669	.07150		40,669
	CHIEF JOSEPH	1989	2029	2,227	2,227	.07150		2,227
	CHIEF JOSEPH	1988	2029	2,722	2,722	.07150		2,722
	CHIEF JOSEPH	1986	2029	5,363	5,363	.07150		5,363
	LIBBY	1995	2030	15	15	.07150	R	15
	LIBBY	1995	2030	41	41	.07150		41
	LIBBY	1995	2030	94	94	.07150	R	94
	HUNGRY HORSE	1995	2030	1,195	1,195	.07150	R	1,195
	DWORSHAK	1995	2030	218	218	.07150		218
	HUNGRY HORSE	1995	2030	536	536	.07150	R	536
	COLUMBIA BASIN	1995	2030	25	25	.07150		25
	LOST CREEK	1996	2031	31	31	.07150		31
	COLUMBIA BASIN	1996	2031	251	251	.07150		251
	CHIEF JOSEPH	1996	2031	27	27	.07150	R	27
	LOWER GRANITE	1996	2031	206	206	.07150		206
	ICE HARBOR	1996	2031	78	78	.07150		78
	DWORSHAK	1996	2031	6	6	.07150		6
	BONNEVILLE - 2ND POWER HOUSE	1981	2031	455	455	.07150		455
	BONNEVILLE - 2ND POWER HOUSE	1981	2031	40,964	40,964	.07150		40,964

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DWORSHAK	1996	2031	203	203	.07150		203	
COLUMBIA BASIN	1996	2031	109	109	.07150		109	
BONNEVILLE	1996	2031	22	22	.07150		22	
BONNEVILLE - 2ND POWER HOUSE	1982	2032	203,535	203,535	.07150		203,535	
BONNEVILLE - 2ND POWER HOUSE	1982	2032	2,264	2,264	.07150		2,264	
MCNARY	1997	2032	30	30	.07150		30	
BONNEVILLE	1997	2032	518	518	.07150		518	
CHIEF JOSEPH	1997	2032	166	166	.07150		166	
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	41,772	41,772	.07150		41,772	
COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	1,730	1,730	.07150		1,730	
COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	14,439	14,439	.07150		14,439	
BONNEVILLE - 2ND POWER HOUSE	1987	2033	2,801	2,801	.07150		2,801	
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	2,060	2,060	.07150		2,060	
COLUMBIA BASIN - 3RD PWR HOUSE	1990	2033	6,383	6,383	.07150		6,383	
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	13,192	13,192	.07150		13,192	
BONNEVILLE - 2ND POWER HOUSE	1990	2033	1,588	1,588	.07150		1,588	
BONNEVILLE - 2ND POWER HOUSE	1983	2033	62,409	62,409	.07150		62,409	
BONNEVILLE - 2ND POWER HOUSE	1983	2033	694	694	.07150		694	
COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	712	712	.07150		712	
LOWER SNAKE F AND W	1983	2033	9,967	9,967	.07150		9,967	
COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	13,003	13,003	.07150		13,003	
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	3,160	3,160	.07150		3,160	
COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	1,851	1,851	.07150		1,851	
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	107	107	.07150		107	
COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	15,538	15,538	.07150		15,538	
COLUMBIA BASIN - 3RD PWR HOUSE	1989	2033	10,902	10,902	.07150		3,408	
TOTAL							673,972	
2019	THE DALLES	2014	2019	38	38	.05559	R	38
	FISH, WILDLIFE & ENVIRONMENTAL	2004	2019	35,825	35,825	.06480		35,825
	BPA CONSERVATION	1999	2019	6,000	6,000	.07470		6,000
	MCNARY	2011	2019	52	52	.05641	R	52
	JOHN DAY	2012	2019	24	24	.05624	R	24
	LOOKOUT POINT-DEXTER	2011	2019	5	5	.05641	R	5
	LITTLE GOOSE	2011	2019	35	35	.05641	R	35
	COLUMBIA BASIN - 3RD PWR HOUSE	1989	2033	10,902	7,494	.07150		7,494
	COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	16,965	16,965	.07150		16,965
	BONNEVILLE - 2ND POWER HOUSE	1989	2033	1,232	1,232	.07150		1,232
	COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	2,294	2,294	.07150		2,294

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COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	4,351	4,351	.07150		4,351
BONNEVILLE - 2ND POWER HOUSE	1988	2033	1,271	1,271	.07150		1,271
BONNEVILLE - 2ND POWER HOUSE	1985	2033	9,138	9,138	.07150		9,138
BONNEVILLE - 2ND POWER HOUSE	1986	2033	30,578	30,578	.07150		30,578
JOHN DAY	1995	2035	52	52	.07150		52
JOHN DAY	1995	2035	22	22	.07150		22
JOHN DAY	1995	2035	121	121	.07150		121
LOWER SNAKE F AND W	1985	2035	47,921	47,921	.07150		47,921
LOWER MONUMENTAL	1996	2036	264	264	.07150	R	264
LOWER SNAKE F AND W	1987	2037	72,536	72,536	.07150		72,536
LOWER SNAKE F AND W	1988	2038	805	805	.07150		805
LIBBY	1988	2038	14,781	14,781	.07150		14,781
LITTLE GOOSE	1995	2040	17	17	.07150		17
LITTLE GOOSE	1995	2040	450	450	.07150		450
LITTLE GOOSE	1995	2040	733	733	.07150	R	733
LOWER SNAKE F AND W	1990	2040	1,557	1,557	.07150		1,557
LOWER SNAKE F AND W	1991	2041	4,411	4,411	.07150		4,411
ICE HARBOR	1996	2041	371	371	.07150	R	371
LOWER SNAKE F AND W	1993	2043	71,632	71,632	.07150		71,632
CHIEF JOSEPH	1994	2044	4,017	4,017	.07150		4,017
BONNEVILLE - 2ND POWER HOUSE	1994	2044	5,700	5,700	.07150		5,700
COLUMBIA BASIN - 3RD PWR HOUSE	1994	2044	12,631	12,631	.07150		12,631
LOWER SNAKE F AND W	1994	2044	4,619	4,619	.07150		4,619
ALBENI FALLS	1995	2045	531	531	.07150		531
ALBENI FALLS	1995	2045	1,105	1,105	.07150		1,105
JOHN DAY	1995	2045	37	37	.07150		37
BONNEVILLE - 2ND POWER HOUSE	1995	2045	3,791	3,791	.07150		3,791
COLUMBIA BASIN	1995	2045	292	292	.07150	R	292
LOOKOUT POINT-DEXTER	1995	2045	33	33	.07150		33
LOOKOUT POINT-DEXTER	1995	2045	39	39	.07150		39
LOST CREEK	1995	2045	94	94	.07150		94
HUNGRY HORSE	1995	2045	6,190	6,190	.07150		6,190
COLUMBIA BASIN	1995	2045	2,453	2,453	.07150		2,453
BONNEVILLE	1995	2045	243	243	.07150		243
CHIEF JOSEPH	1995	2045	712	712	.07150	R	712
LOWER MONUMENTAL	1995	2045	41	41	.07150		41
DWORSHAK	1995	2045	1,162	1,162	.07150		1,162
BONNEVILLE	1995	2045	410	410	.07150	R	410
BONNEVILLE	1995	2045	440	440	.07150	R	440

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LOWER MONUMENTAL	1995	2045	99	99	.07150		99
LOWER MONUMENTAL	1995	2045	624	624	.07150		624
ALBENI FALLS	1995	2045	443	443	.07150		443
LOWER MONUMENTAL	1995	2045	1,122	1,122	.07150	R	1,122
CHIEF JOSEPH	1995	2045	562	562	.07150		562
LOWER SNAKE F AND W	1995	2045	2,162	2,162	.07150		2,162
JOHN DAY	1995	2045	608	608	.07150		608
MCNARY	1995	2045	16	16	.07150		16
CHIEF JOSEPH	1995	2045	784	784	.07150		784
COLUMBIA RIVER FISH MITIGATION	1995	2045	703	703	.07150		703
JOHN DAY	1995	2045	7,653	7,653	.07150	R	7,653
CHIEF JOSEPH	1995	2045	147	147	.07150		147
DETROIT-BIG CLIFF	1995	2045	38	38	.07150		38
BONNEVILLE	1996	2046	751	751	.07150		751
COLUMBIA BASIN	1996	2046	368	368	.07150		368
CHIEF JOSEPH	1996	2046	4	4	.07150	R	4
DWORSHAK	1996	2046	3	3	.07150		3
HUNGRY HORSE	1996	2046	15	15	.07150		15
LITTLE GOOSE	1996	2046	10	10	.07150	R	10
LOWER SNAKE F AND W	1996	2046	10,185	10,185	.07150		10,185
DWORSHAK	1996	2046	4	4	.07150		4
HUNGRY HORSE	1996	2046	2	2	.07150		2
LOWER GRANITE	1996	2046	625	625	.07150		625
BONNEVILLE	1996	2046	142	142	.07150		142
LOWER MONUMENTAL	1996	2046	10	10	.07150		10
LITTLE GOOSE	1996	2046	3,909	3,909	.07150	R	3,909
MCNARY	1996	2046	619	619	.07150		619
COLUMBIA RIVER FISH MITIGATION	1996	2046	42,357	42,357	.07150		16,330
TOTAL							----- 423,453
2020 FISH, WILDLIFE & ENVIRONMENTAL	2005	2020	33,988	33,988	.06440		33,988
BPA CONSERVATION	2000	2020	32,555	32,555	.07400		32,555
COUGAR	2012	2020	3	3	.05641	R	3
LITTLE GOOSE	2013	2020	20	20	.05624	R	20
COUGAR	2013	2020	2	2	.05624	R	2
COLUMBIA RIVER FISH MITIGATION	1996	2046	42,357	26,027	.07150		26,027
DWORSHAK	1996	2046	46	46	.07150		46
THE DALLES	1996	2046	1,991	1,991	.07150		1,991
BONNEVILLE	1996	2046	109	109	.07150		109

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BONNEVILLE	1996	2046	223	223	.07150		223
CHIEF JOSEPH	1996	2046	3	3	.07150	R	3
LOST CREEK	1996	2046	24	24	.07150		24
BONNEVILLE	1996	2046	1,322	1,322	.07150	R	1,322
GREEN PETER-FOSTER	1996	2046	26	26	.07150		26
HILLS CREEK	1996	2046	28	28	.07150		28
BOISE	1996	2046	450	450	.07150		450
LOWER GRANITE	1996	2046	9	9	.07150	R	9
BOISE	1996	2046	656	656	.07150		656
BONNEVILLE - 2ND POWER HOUSE	1996	2046	376	376	.07150		376
BONNEVILLE	1996	2046	18	18	.07150		18
COLUMBIA BASIN	1996	2046	426	426	.07150		426
BONNEVILLE	1996	2046	18	18	.07150		18
BONNEVILLE	1996	2046	80	80	.07150		80
LITTLE GOOSE	1996	2046	211	211	.07150		211
LITTLE GOOSE	1996	2046	241	241	.07150		241
CHIEF JOSEPH	1996	2046	729	729	.07150		729
LITTLE GOOSE	1996	2046	520	520	.07150	R	520
CHIEF JOSEPH	1996	2046	355	355	.07150		355
LITTLE GOOSE	1996	2046	10	10	.07150		10
LIBBY	1997	2047	660	660	.07150		660
ALBENI FALLS	1997	2047	477	477	.07150		477
HUNGRY HORSE	1997	2047	216	216	.07150		216
LITTLE GOOSE	1997	2047	1	1	.07150		1
BOISE	1997	2047	2,284	2,284	.07150		2,284
COUGAR	1997	2047	26	26	.07150		26
JOHN DAY	1997	2047	179	179	.07150		179
BONNEVILLE	1997	2047	161	161	.07150		161
ICE HARBOR	1997	2047	67	67	.07150		67
CHIEF JOSEPH	1997	2047	657	657	.07150		657
COLUMBIA BASIN	1997	2047	3,393	3,393	.07150		3,393
LOWER SNAKE F AND W	1997	2047	2,173	2,173	.07150		2,173
LOWER GRANITE	1997	2047	677	677	.07150		677
DWORSHAK	1997	2047	7,588	7,588	.07150		7,588
MINIDOKA	1997	2047	51,558	51,558	.07150		51,558
BUREAU DIRECT FUND	2001	2046	76,100	76,100	.07290		76,100
BPA PROGRAM	2001	2046	7,600	7,600	.07290		7,600
BUREAU DIRECT FUND	2002	2047	89,855	89,855	.07080		89,855
BPA PROGRAM	2002	2047	2,100	2,100	.07080		2,100

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+	BPA CONSERVATION	2001	2021	1,000	1,000	.07110		1,000
	BUREAU DIRECT FUND	2004	2049	61,700	61,700	.06900		61,700
	BPA PROGRAM	2004	2049	1,400	1,400	.06900		1,400
	BUREAU DIRECT FUND	2003	2048	86,650	86,650	.06890		79,941
	TOTAL							----- 490,279
2021	BONNEVILLE	2013	2021	3,500	3,500	.05641	R	3,500
	LITTLE GOOSE	2011	2021	10	10	.05674	R	10
	DWORSHAK	2013	2021	33	33	.05641	R	33
	BONNEVILLE	2016	2021	56,400	56,400	.05559	R	56,400
	BONNEVILLE	2011	2021	98	98	.05674	R	98
	BUREAU DIRECT FUND	2003	2048	86,650	6,709	.06890		6,709
	BPA PROGRAM	2003	2048	1,400	1,400	.06890		1,400
	BUREAU DIRECT FUND	2005	2050	62,100	62,100	.06880		62,100
	BPA PROGRAM	2005	2050	1,400	1,400	.06880		1,400
	BONNEVILLE	2001	2051	17,820	17,820	.06390		17,820
	COLUMBIA BASIN	2001	2051	3,557	3,557	.06390		3,557
	COLUMBIA BASIN	2001	2051	1,163	1,163	.06390		1,163
	THE DALLES	2001	2051	12,528	12,528	.06390		12,528
	COLUMBIA RIVER FISH MITIGATION	2001	2051	457,474	457,474	.06180		387,833
	TOTAL							----- 554,551
2022	DWORSHAK	2015	2022	15	15	.05624	R	15
	THE DALLES	2015	2022	41	41	.05624	R	41
	ICE HARBOR	2012	2022	11,600	11,600	.05674	R	11,600
	ICE HARBOR	2017	2022	11,900	11,900	.05559	R	11,900
	COLUMBIA RIVER FISH MITIGATION	2001	2051	457,474	69,641	.06180		69,641
	BONNEVILLE	2002	2052	8,910	8,910	.06180		8,910
	COLUMBIA BASIN	2002	2052	1,162	1,162	.06180		1,162
	COLUMBIA RIVER FISH MITIGATION	2002	2052	111,042	111,042	.06180		111,042
	LOWER SNAKE F AND W	2002	2052	794	794	.06180		794
	THE DALLES	2002	2052	12,528	12,528	.06180		12,528
	COLUMBIA RIVER FISH MITIGATION	2000	2050	4,541	4,541	.06125		4,541
	ICE HARBOR	2000	2050	696	696	.06125		696
	COLUMBIA BASIN	2000	2050	1,185	1,185	.06125		1,185
	BONNEVILLE	2000	2050	23,476	23,476	.06125		23,476
	MENARY	2000	2050	937	937	.06125		937
	JOHN DAY	2000	2050	17,643	17,643	.06125		17,643
	LOWER MONUMENTAL	2000	2050	521	521	.06125		521

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COLUMBIA BASIN	2000	2050	817	817	.06125		817	
LOWER GRANITE	2000	2050	1,261	1,261	.06125		1,261	
COLUMBIA BASIN	2002	2027	507	507	.06120		507	
COLUMBIA BASIN	2004	2054	1,162	1,162	.06000		1,162	
COLUMBIA RIVER FISH MITIGATION	2004	2054	213,203	213,203	.06000		213,203	
MCNARY	2004	2054	7,000	7,000	.06000		7,000	
THE DALLES	2004	2054	12,528	12,528	.06000		12,528	
LOWER SNAKE F AND W	2001	2051	7,649	7,649	.05990		7,649	
BONNEVILLE	2003	2053	22,216	22,216	.05990		22,216	
COLUMBIA BASIN	2003	2053	1,161	1,161	.05990		1,161	
COLUMBIA RIVER FISH MITIGATION	2003	2053	44,682	44,682	.05990		10,649	
TOTAL							554,785	
2023	LOWER SNAKE F AND W	2013	2023	905	905	.05674	R	905
	THE DALLES	2015	2023	62	62	.05641	R	62
	GREEN PETER-FOSTER	2015	2023	12	12	.05641	R	12
	LOWER SNAKE F AND W	2015	2023	95	95	.05641	R	95
	LOWER GRANITE	2015	2023	28	28	.05641	R	28
	DWORSHAK	2013	2023	160	160	.05674	R	160
	LOWER GRANITE	2011	2023	18	18	.05705	R	18
	GREEN PETER-FOSTER	2016	2023	15	15	.05624	R	15
	LOWER SNAKE F AND W	2018	2023	42	42	.05559	R	42
	COLUMBIA RIVER FISH MITIGATION	2003	2053	44,682	34,033	.05990		34,033
	THE DALLES	2003	2053	12,528	12,528	.05990		12,528
	LOWER SNAKE F AND W	2013	2043	1,931	1,931	.05984	R	1,931
	HUNGRY HORSE	2013	2043	414	414	.05984	R	414
	DETROIT-BIG CLIFF	2014	2044	541	541	.05984	R	541
	YAKIMA-CHANDLER	2016	2046	53	53	.05984	R	53
	BONNEVILLE	2011	2046	64,155	64,155	.05984	R	64,155
	ICE HARBOR	2011	2046	5,632	5,632	.05984	R	5,632
	LIBBY	2011	2046	9,143	9,143	.05984	R	9,143
	BONNEVILLE	2012	2047	13	13	.05984	R	13
	LOST CREEK	2012	2047	15	15	.05984	R	15
	MINIDOKA	2017	2047	77	77	.05984	R	77
	BOISE	2017	2047	57	57	.05984	R	57
	COLUMBIA BASIN	2013	2048	47,919	47,919	.05984	R	47,919
	LOWER GRANITE	2013	2048	8,693	8,693	.05984	R	8,693
	LITTLE GOOSE	2013	2048	8,551	8,551	.05984	R	8,551
	YAKIMA-ROZA	2018	2048	4	4	.05984	R	4

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CHIEF JOSEPH	2013	2048	60,806	60,806	.05984	R	60,806	
LOWER MONUMENTAL	2014	2049	8,260	8,260	.05984	R	8,260	
LITTLE GOOSE	2011	2051	9,196	9,196	.05984	R	9,196	
BONNEVILLE	2017	2052	61,262	61,262	.05984	R	61,262	
HILLS CREEK	2022	2052	301	301	.05984	R	301	
ICE HARBOR	2022	2052	315	315	.05984	R	315	
COLUMBIA BASIN	2017	2052	34,612	34,612	.05984	R	34,612	
LOWER SNAKE F AND W	2018	2053	993	993	.05984	R	993	
DWORSHAK	2013	2053	6,719	6,719	.05984	R	6,719	
LOWER GRANITE	2015	2055	6,156	6,156	.05984	R	6,156	
LIBBY	2020	2055	6,815	6,815	.05984	R	6,815	
LIBBY	2016	2056	13,658	13,658	.05984	R	13,658	
ICE HARBOR	2016	2056	3,779	3,779	.05984	R	3,779	
LOST CREEK	2017	2057	1,352	1,352	.05984	R	1,352	
GREEN PETER-FOSTER	2012	2057	1,731	1,731	.05984	R	1,731	
MINIDOKA	2022	2057	2,692	2,692	.05984	R	2,692	
CHIEF JOSEPH	2018	2058	38,856	38,856	.05984	R	38,856	
COLUMBIA BASIN	2018	2058	167,304	167,304	.05984	R	163,250	
TOTAL							615,849	
2024	THE DALLES	2019	2024	38	38	.05559	R	38
	LOWER GRANITE	2017	2024	21	21	.05624	R	21
	DETROIT-BIG CLIFF	2014	2024	28	28	.05674	R	28
	DETROIT-BIG CLIFF	2017	2024	2	2	.05624	R	2
	COLUMBIA BASIN	2018	2058	167,304	4,054	.05984	R	4,054
	LOWER GRANITE	2018	2058	6,751	6,751	.05984	R	6,751
	GREEN PETER-FOSTER	2013	2058	1,488	1,488	.05984	R	1,488
	LITTLE GOOSE	2018	2058	7,668	7,668	.05984	R	7,668
	HUNGRY HORSE	2023	2058	2,920	2,920	.05984	R	2,920
	LOWER MONUMENTAL	2019	2059	5,997	5,997	.05984	R	5,997
	DETROIT-BIG CLIFF	2024	2059	2,182	2,182	.05984	R	2,182
	JOHN DAY	2015	2060	25,149	25,149	.05984	R	25,149
	BONNEVILLE	2021	2061	56,562	56,562	.05984	R	56,562
	BONNEVILLE	2022	2062	54,755	54,755	.05984	R	54,755
	ICE HARBOR	2012	2062	3,430	3,430	.05984	R	3,430
	BOISE	2017	2062	667	667	.05984	R	667
	THE DALLES	2018	2063	5,072	5,072	.05984	R	5,072
	LOWER SNAKE F AND W	2023	2063	6,262	6,262	.05984	R	6,262
	ICE HARBOR	2021	2066	24	24	.05984	R	24

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
LOST CREEK	2022	2067	1,055	1,055	.05984	R	1,055
MINIDOKA	2017	2067	4,184	4,184	.05984	R	4,184
BONNEVILLE	2022	2067	50,600	50,600	.05984	R	50,600
COLUMBIA BASIN	2023	2068	52,187	52,187	.05984	R	52,187
LITTLE GOOSE	2023	2068	110	110	.05984	R	110
LOWER MONUMENTAL	2024	2069	98	98	.05984	R	98
LOWER MONUMENTAL	2019	2069	3,591	3,591	.05984	R	3,591
LITTLE GOOSE	2021	2071	3,109	3,109	.05984	R	3,109
DWORSHAK	2023	2073	1,523	1,523	.05984	R	1,523
COLUMBIA BASIN	2005	2055	1,162	1,162	.05980		1,162
COLUMBIA RIVER FISH MITIGATION	2005	2055	91,203	91,203	.05980		91,203
MCNARY	2005	2055	17,000	17,000	.05980		17,000
THE DALLES	2005	2055	12,528	12,528	.05980		12,528
COLUMBIA BASIN	2003	2028	507	507	.05930		507
COLUMBIA BASIN	2004	2029	507	507	.05930		507
COLUMBIA BASIN	2005	2030	507	507	.05910		507
HILLS CREEK	2012	2037	1	1	.05906	R	1
ICE HARBOR	2012	2037	1,381	1,381	.05906	R	1,381
COUGAR	2014	2039	117	117	.05906	R	117
BONNEVILLE	2016	2041	2,263	2,263	.05906	R	2,263
GREEN PETER-FOSTER	2017	2042	117	117	.05906	R	117
MINIDOKA	2017	2042	1,716	1,716	.05906	R	1,716
GREEN PETER-FOSTER	2018	2043	60	60	.05906	R	60
LOWER MONUMENTAL	2019	2044	744	744	.05906	R	744
JOHN DAY	2020	2045	566	566	.05906	R	566
LITTLE GOOSE	2021	2046	852	852	.05906	R	852
COLUMBIA BASIN	2022	2047	39,434	39,434	.05906	R	39,434
DWORSHAK	2023	2048	6,430	6,430	.05906	R	6,430
LITTLE GOOSE	2011	2031	26,300	26,300	.05829	R	26,300
HUNGRY HORSE	2013	2033	616	616	.05829	R	616
DWORSHAK	2013	2033	2,978	2,978	.05829	R	2,978
THE DALLES	2013	2033	197	197	.05829	R	197
DETROIT-BIG CLIFF	2014	2034	259	259	.05829	R	259
DETROIT-BIG CLIFF	2014	2034	4,000	4,000	.05829	R	4,000
MCNARY	2015	2035	1,078	1,078	.05829	R	1,078
LOOKOUT POINT-DEXTER	2015	2035	66	66	.05829	R	66
LOWER GRANITE	2015	2035	31,200	31,200	.05829	R	31,200
LOOKOUT POINT-DEXTER	2015	2035	385	385	.05829	R	385
ALBENI FALLS	2015	2035	815	815	.05829	R	815

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
ICE HARBOR	2016	2036	170	170	.05829	R	170
LIBBY	2016	2036	581	581	.05829	R	581
YAKIMA-CHANDLER	2016	2036	77	77	.05829	R	77
MINIDOKA	2017	2037	82	82	.05829	R	82
LOST CREEK	2017	2037	33	33	.05829	R	33
CHIEF JOSEPH	2017	2037	1,903	1,903	.05829	R	1,903
MINIDOKA	2017	2037	243	243	.05829	R	243
CHIEF JOSEPH	2018	2038	618	618	.05829	R	618
COLUMBIA BASIN	2018	2038	4,796	4,796	.05829	R	4,796
LOWER GRANITE	2018	2038	273	273	.05829	R	273
LITTLE GOOSE	2018	2038	169	169	.05829	R	169
YAKIMA-ROZA	2018	2038	7	7	.05829	R	7
LOWER MONUMENTAL	2019	2039	270	270	.05829	R	270
THE DALLES	2019	2039	1,089	1,089	.05829	R	1,089
BONNEVILLE	2021	2041	542	542	.05829	R	542
ICE HARBOR	2022	2042	1,266	1,266	.05829	R	1,266
LOWER SNAKE F AND W	2023	2043	4,547	4,547	.05829	R	4,547
COUGAR	2024	2044	62	62	.05829	R	62
BONNEVILLE	2012	2027	969	969	.05752	R	969
LOWER SNAKE F AND W	2013	2028	978	978	.05752	R	978
HUNGRY HORSE	2013	2028	410	410	.05752	R	410
LOWER MONUMENTAL	2014	2029	25,700	25,700	.05752	R	25,700
DETROIT-BIG CLIFF	2014	2029	15	15	.05752	R	15
DETROIT-BIG CLIFF	2014	2029	20,500	20,500	.05752	R	20,500
MCNARY	2015	2030	18,500	18,500	.05752	R	18,500
JOHN DAY	2015	2030	138	138	.05752	R	138
ALBENI FALLS	2015	2030	51	51	.05752	R	51
JOHN DAY	2015	2030	1,736	1,736	.05752	R	1,736
LOOKOUT POINT-DEXTER	2015	2030	379	379	.05752	R	379
LIBBY	2015	2030	181	181	.05752	R	181
YAKIMA-CHANDLER	2016	2031	22	22	.05752	R	22
BONNEVILLE	2016	2031	2,249	2,249	.05752	R	2,249
LITTLE GOOSE	2016	2031	26,700	26,700	.05752	R	19,781
TOTAL							652,853

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2025	ALBENI FALLS	2015	2025	1	1	.05674	R	1
	BONNEVILLE	2013	2025	127	127	.05705	R	127
	LIBBY	2018	2025	60	60	.05624	R	60
	MCNARY	2015	2025	51,000	51,000	.05674	R	51,000
	LOOKOUT POINT-DEXTER	2015	2025	95	95	.05674	R	95
	LOWER MONUMENTAL	2017	2025	39	39	.05641	R	39
	LOST CREEK	2013	2025	4	4	.05705	R	4
	ICE HARBOR	2018	2025	22,500	22,500	.05624	R	22,500
	LOOKOUT POINT-DEXTER	2018	2025	13	13	.05624	R	13
	LOST CREEK	2017	2025	1	1	.05641	R	1
	LOWER GRANITE	2015	2025	777	777	.05674	R	777
	LOWER MONUMENTAL	2018	2025	20	20	.05624	R	20
	LOWER SNAKE F AND W	2018	2025	497	497	.05624	R	497
	MCNARY	2018	2025	25	25	.05624	R	25
	BONNEVILLE	2018	2025	24,000	24,000	.05624	R	24,000
	ALBENI FALLS	2025	2060	7,483	7,483	.05984	R	7,483
	MCNARY	2025	2060	55,110	55,110	.05984	R	55,110
	LIBBY	2025	2065	6,869	6,869	.05984	R	6,869
	LOWER GRANITE	2025	2075	1,380	1,380	.05984	R	1,380
	LOWER GRANITE	2025	2050	181	181	.05906	R	181
	LITTLE GOOSE	2016	2031	26,700	6,919	.05752	R	6,919
	MINIDOKA	2017	2032	111	111	.05752	R	111
	BOISE	2017	2032	11	11	.05752	R	11
	CHIEF JOSEPH	2017	2032	1,245	1,245	.05752	R	1,245
	DWORSHAK	2018	2033	2,552	2,552	.05752	R	2,552
	THE DALLES	2018	2033	1,708	1,708	.05752	R	1,708
	YAKIMA-ROZA	2018	2033	2	2	.05752	R	2
	THE DALLES	2019	2034	1,107	1,107	.05752	R	1,107
	LOWER GRANITE	2020	2035	15,200	15,200	.05752	R	15,200
	LIBBY	2021	2036	1,654	1,654	.05752	R	1,654
	COLUMBIA BASIN	2022	2037	738	738	.05752	R	738
	MINIDOKA	2022	2037	75	75	.05752	R	75
	COLUMBIA BASIN	2023	2038	998	998	.05752	R	998
	LOWER GRANITE	2023	2038	273	273	.05752	R	273
	CHIEF JOSEPH	2023	2038	176	176	.05752	R	176
	COUGAR	2024	2039	38	38	.05752	R	38
	DETROIT-BIG CLIFF	2014	2026	21	21	.05705	R	21
	MCNARY	2015	2027	25,000	25,000	.05705	R	25,000
	ALBENI FALLS	2015	2027	115	115	.05705	R	115

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
LOOKOUT POINT-DEXTER	2015	2027	34	34	.05705	R	34
LOWER MONUMENTAL	2017	2029	2,000	2,000	.05705	R	2,000
JOHN DAY	2018	2030	38	38	.05705	R	38
LOWER SNAKE F AND W	2019	2031	454	454	.05705	R	454
LITTLE GOOSE	2019	2031	2,000	2,000	.05705	R	2,000
THE DALLES	2019	2031	8	8	.05705	R	8
DWORSHAK	2021	2033	47	47	.05705	R	47
THE DALLES	2021	2033	1,510	1,510	.05705	R	1,510
ICE HARBOR	2022	2034	4,200	4,200	.05705	R	4,200
LOWER GRANITE	2023	2035	18	18	.05705	R	18
LOST CREEK	2025	2037	4	4	.05705	R	4
BONNEVILLE	2025	2037	127	127	.05705	R	127
LIBBY	2016	2026	60	60	.05674	R	60
YAKIMA-CHANDLER	2016	2026	52	52	.05674	R	52
GREEN PETER-FOSTER	2017	2027	19	19	.05674	R	19
MINIDOKA	2017	2027	14	14	.05674	R	14
CHIEF JOSEPH	2017	2027	36	36	.05674	R	36
LITTLE GOOSE	2018	2028	907	907	.05674	R	907
LOWER MONUMENTAL	2019	2029	10	10	.05674	R	10
THE DALLES	2019	2029	1	1	.05674	R	1
LITTLE GOOSE	2021	2031	10	10	.05674	R	10
BONNEVILLE	2021	2031	98	98	.05674	R	98
ICE HARBOR	2022	2032	11,600	11,600	.05674	R	11,600
LOWER SNAKE F AND W	2023	2033	905	905	.05674	R	905
DWORSHAK	2023	2033	160	160	.05674	R	160
DETROIT-BIG CLIFF	2024	2034	28	28	.05674	R	28
LOWER GRANITE	2025	2035	777	777	.05674	R	777
LOOKOUT POINT-DEXTER	2025	2035	95	95	.05674	R	95
ALBENI FALLS	2025	2035	1	1	.05674	R	1
MCNARY	2025	2035	51,000	51,000	.05674	R	51,000
ICE HARBOR	2018	2026	6,100	6,100	.05641	R	6,100
DETROIT-BIG CLIFF	2018	2026	4	4	.05641	R	4
JOHN DAY	2018	2026	4	4	.05641	R	4
LOOKOUT POINT-DEXTER	2019	2027	5	5	.05641	R	5
MCNARY	2019	2027	52	52	.05641	R	52
LITTLE GOOSE	2019	2027	35	35	.05641	R	35
COUGAR	2020	2028	3	3	.05641	R	3
DWORSHAK	2021	2029	33	33	.05641	R	33
BONNEVILLE	2021	2029	3,500	3,500	.05641	R	3,500

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
GREEN PETER-FOSTER	2023	2031	12	12	.05641	R	12
LOWER SNAKE F AND W	2023	2031	95	95	.05641	R	95
THE DALLES	2023	2031	62	62	.05641	R	62
LOWER GRANITE	2023	2031	28	28	.05641	R	28
LOST CREEK	2025	2033	1	1	.05641	R	1
LOWER MONUMENTAL	2025	2033	39	39	.05641	R	39
JOHN DAY	2019	2026	24	24	.05624	R	24
LITTLE GOOSE	2020	2027	20	20	.05624	R	20
COUGAR	2020	2027	2	2	.05624	R	2
DWORSHAK	2022	2029	15	15	.05624	R	15
THE DALLES	2022	2029	41	41	.05624	R	41
GREEN PETER-FOSTER	2023	2030	15	15	.05624	R	15
LOWER GRANITE	2024	2031	21	21	.05624	R	21
DETROIT-BIG CLIFF	2024	2031	2	2	.05624	R	2
LOWER MONUMENTAL	2025	2032	20	20	.05624	R	20
LOWER SNAKE F AND W	2025	2032	497	497	.05624	R	497
BONNEVILLE	2025	2032	24,000	24,000	.05624	R	24,000
MCNARY	2025	2032	25	25	.05624	R	25
LIBBY	2025	2032	60	60	.05624	R	60
LOOKOUT POINT-DEXTER	2025	2032	13	13	.05624	R	13
ICE HARBOR	2025	2032	22,500	22,500	.05624	R	22,500
BONNEVILLE	2021	2026	56,400	56,400	.05559	R	56,400
ICE HARBOR	2022	2027	11,900	11,900	.05559	R	11,900
LOWER SNAKE F AND W	2023	2028	42	42	.05559	R	42
THE DALLES	2024	2029	38	38	.05559	R	38
BONNEVILLE	1999	2044	29,984	29,984	.05325		29,984
COLUMBIA RIVER FISH MITIGATION	1999	2049	20,689	20,689	.05325		20,689
TOTAL							480,619
2026 YAKIMA-CHANDLER	2026	2061	418	418	.05984	R	418
LIBBY	2026	2076	2,913	2,913	.05984	R	2,913
ICE HARBOR	2026	2076	1,085	1,085	.05984	R	1,085
LIBBY	2026	2051	2,293	2,293	.05906	R	2,293
ICE HARBOR	2026	2051	37	37	.05906	R	37
DETROIT-BIG CLIFF	2026	2038	21	21	.05705	R	21
YAKIMA-CHANDLER	2026	2036	52	52	.05674	R	52
LIBBY	2026	2036	60	60	.05674	R	60
ICE HARBOR	2026	2034	6,100	6,100	.05641	R	6,100
JOHN DAY	2026	2034	4	4	.05641	R	4

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
DETROIT-BIG CLIFF	2026	2034	4	4	.05641	R	4
JOHN DAY	2026	2033	24	24	.05624	R	24
BONNEVILLE	2026	2031	56,400	56,400	.05559	R	56,400
TOTAL							----- 69,411
2027							
GREEN PETER-FOSTER	2027	2057	388	388	.05984	R	388
MINIDOKA	2027	2062	647	647	.05984	R	647
CHIEF JOSEPH	2027	2062	50,103	50,103	.05984	R	50,103
COLUMBIA BASIN	2027	2067	38,092	38,092	.05984	R	38,092
BONNEVILLE	2027	2072	838	838	.05984	R	838
LOST CREEK	2027	2077	506	506	.05984	R	506
BONNEVILLE	2027	2077	260	260	.05984	R	260
BOISE	2027	2077	6,881	6,881	.05984	R	6,881
LOST CREEK	2027	2052	65	65	.05906	R	65
BONNEVILLE	2027	2052	12	12	.05906	R	12
BOISE	2027	2052	18,860	18,860	.05906	R	18,860
GREEN PETER-FOSTER	2027	2047	847	847	.05829	R	847
COLUMBIA BASIN	2027	2047	4,094	4,094	.05829	R	4,094
BOISE	2027	2047	123	123	.05829	R	123
BONNEVILLE	2027	2042	969	969	.05752	R	969
MCNARY	2027	2039	25,000	25,000	.05705	R	25,000
LOOKOUT POINT-DEXTER	2027	2039	34	34	.05705	R	34
ALBENI FALLS	2027	2039	115	115	.05705	R	115
CHIEF JOSEPH	2027	2037	36	36	.05674	R	36
GREEN PETER-FOSTER	2027	2037	19	19	.05674	R	19
MINIDOKA	2027	2037	14	14	.05674	R	14
LOOKOUT POINT-DEXTER	2027	2035	5	5	.05641	R	5
LITTLE GOOSE	2027	2035	35	35	.05641	R	35
MCNARY	2027	2035	52	52	.05641	R	52
COUGAR	2027	2034	2	2	.05624	R	2
LITTLE GOOSE	2027	2034	20	20	.05624	R	20
ICE HARBOR	2027	2032	11,900	11,900	.05559	R	11,900
TOTAL							----- 159,917

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(ALL AMOUNT IN \$1000)

YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2028	GREEN PETER-FOSTER	2028	2058	140	140	.05984	R	140
	YAKIMA-ROZA	2028	2063	48	48	.05984	R	48
	LOWER SNAKE F AND W	2028	2073	935	935	.05984	R	935
	LOWER GRANITE	2028	2078	1,441	1,441	.05984	R	1,441
	LITTLE GOOSE	2028	2078	1,488	1,488	.05984	R	1,488
	COLUMBIA BASIN	2028	2078	101,648	101,648	.05984	R	101,648
	CHIEF JOSEPH	2028	2078	10,746	10,746	.05984	R	10,746
	LITTLE GOOSE	2028	2053	33	33	.05906	R	33
	HUNGRY HORSE	2028	2053	9,375	9,375	.05906	R	9,375
	LOWER GRANITE	2028	2053	102	102	.05906	R	102
	COLUMBIA BASIN	2028	2053	43,274	43,274	.05906	R	43,274
	CHIEF JOSEPH	2028	2053	298	298	.05906	R	298
	GREEN PETER-FOSTER	2028	2048	692	692	.05829	R	692
	HUNGRY HORSE	2028	2043	410	410	.05752	R	410
	LOWER SNAKE F AND W	2028	2043	978	978	.05752	R	978
	LITTLE GOOSE	2028	2038	907	907	.05674	R	907
	COUGAR	2028	2036	3	3	.05641	R	3
	LOWER SNAKE F AND W	2028	2033	42	42	.05559	R	42
	TOTAL							172,560
2029	LOWER MONUMENTAL	2029	2059	215	215	.05984	R	215
	THE DALLES	2029	2064	61,250	61,250	.05984	R	61,250
	LOWER MONUMENTAL	2029	2079	1,458	1,458	.05984	R	1,458
	LOWER MONUMENTAL	2029	2054	35	35	.05906	R	35
	DETROIT-BIG CLIFF	2029	2054	181	181	.05906	R	181
	DETROIT-BIG CLIFF	2029	2054	93	93	.05906	R	93
	LOWER MONUMENTAL	2029	2049	26,300	26,300	.05829	R	26,300
	LOWER MONUMENTAL	2029	2044	25,700	25,700	.05752	R	25,700
	DETROIT-BIG CLIFF	2029	2044	20,500	20,500	.05752	R	20,500
	DETROIT-BIG CLIFF	2029	2044	15	15	.05752	R	15
	LOWER MONUMENTAL	2029	2041	2,000	2,000	.05705	R	2,000
	LOWER MONUMENTAL	2029	2039	10	10	.05674	R	10
	THE DALLES	2029	2039	1	1	.05674	R	1
	DWORSHAK	2029	2037	33	33	.05641	R	33
	BONNEVILLE	2029	2037	3,500	3,500	.05641	R	3,500
	DWORSHAK	2029	2036	15	15	.05624	R	15
	THE DALLES	2029	2036	41	41	.05624	R	41
	THE DALLES	2029	2034	38	38	.05559	R	38
	TOTAL							141,385

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2030	JOHN DAY	2030	2060	3,097	3,097	.05984	R	3,097
	MCNARY	2030	2055	797	797	.05906	R	797
	LOOKOUT POINT-DEXTER	2030	2055	469	469	.05906	R	469
	LOOKOUT POINT-DEXTER	2030	2055	30	30	.05906	R	30
	ALBENI FALLS	2030	2055	2,220	2,220	.05906	R	2,220
	JOHN DAY	2030	2050	1,736	1,736	.05829	R	1,736
	MCNARY	2030	2045	18,500	18,500	.05752	R	18,500
	JOHN DAY	2030	2045	138	138	.05752	R	138
	LIBBY	2030	2045	181	181	.05752	R	181
	JOHN DAY	2030	2045	1,736	1,736	.05752	R	1,736
	ALBENI FALLS	2030	2045	51	51	.05752	R	51
	LOOKOUT POINT-DEXTER	2030	2045	379	379	.05752	R	379
	JOHN DAY	2030	2042	38	38	.05705	R	38
	GREEN PETER-FOSTER	2030	2037	15	15	.05624	R	15
	TOTAL							29,387
2031	LITTLE GOOSE	2031	2061	211	211	.05984	R	211
	BONNEVILLE	2031	2076	974	974	.05984	R	974
	YAKIMA-CHANDLER	2031	2056	823	823	.05906	R	823
	LITTLE GOOSE	2031	2051	26,300	26,300	.05829	R	26,300
	LITTLE GOOSE	2031	2046	26,700	26,700	.05752	R	26,700
	YAKIMA-CHANDLER	2031	2046	22	22	.05752	R	22
	BONNEVILLE	2031	2046	2,249	2,249	.05752	R	2,249
	LOWER SNAKE F AND W	2031	2043	454	454	.05705	R	454
	LITTLE GOOSE	2031	2043	2,000	2,000	.05705	R	2,000
	THE DALLES	2031	2043	8	8	.05705	R	8
	LITTLE GOOSE	2031	2041	10	10	.05674	R	10
	BONNEVILLE	2031	2041	98	98	.05674	R	98
	GREEN PETER-FOSTER	2031	2039	12	12	.05641	R	12
	LOWER SNAKE F AND W	2031	2039	95	95	.05641	R	95
	LOWER GRANITE	2031	2039	28	28	.05641	R	28
	THE DALLES	2031	2039	62	62	.05641	R	62
	DETROIT-BIG CLIFF	2031	2038	2	2	.05624	R	2
	LOWER GRANITE	2031	2038	21	21	.05624	R	21
	BONNEVILLE	2031	2036	56,400	56,400	.05559	R	56,400
	TOTAL							116,469

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2032	ICE HARBOR	2032	2067	14,674	14,674	.05984	R	14,674
	BOISE	2032	2067	849	849	.05984	R	849
	BONNEVILLE	2032	2082	11,868	11,868	.05984	R	11,868
	MINIDOKA	2032	2057	2,051	2,051	.05906	R	2,051
	CHIEF JOSEPH	2032	2057	3,658	3,658	.05906	R	3,658
	BONNEVILLE	2032	2057	3,718	3,718	.05906	R	3,718
	CHIEF JOSEPH	2032	2047	1,245	1,245	.05752	R	1,245
	MINIDOKA	2032	2047	111	111	.05752	R	111
	BOISE	2032	2047	11	11	.05752	R	11
	ICE HARBOR	2032	2042	11,600	11,600	.05674	R	11,600
	LOWER SNAKE F AND W	2032	2039	497	497	.05624	R	497
	LIBBY	2032	2039	60	60	.05624	R	60
	LOWER MONUMENTAL	2032	2039	20	20	.05624	R	20
	LOOKOUT POINT-DEXTER	2032	2039	13	13	.05624	R	13
	BONNEVILLE	2032	2039	24,000	24,000	.05624	R	24,000
	MCNARY	2032	2039	25	25	.05624	R	25
	ICE HARBOR	2032	2039	22,500	22,500	.05624	R	22,500
	ICE HARBOR	2032	2037	11,900	11,900	.05559	R	11,900
	TOTAL							108,800
2033	THE DALLES	2033	2063	16,883	16,883	.05984	R	16,883
	HUNGRY HORSE	2033	2073	5,357	5,357	.05984	R	5,357
	LOWER SNAKE F AND W	2033	2083	14,610	14,610	.05984	R	14,610
	YAKIMA-ROZA	2033	2058	93	93	.05906	R	93
	LOWER SNAKE F AND W	2033	2058	879	879	.05906	R	879
	THE DALLES	2033	2053	197	197	.05829	R	197
	HUNGRY HORSE	2033	2053	616	616	.05829	R	616
	DWORSHAK	2033	2053	2,978	2,978	.05829	R	2,978
	YAKIMA-ROZA	2033	2048	2	2	.05752	R	2
	DWORSHAK	2033	2048	2,552	2,552	.05752	R	2,552
	THE DALLES	2033	2048	1,708	1,708	.05752	R	1,708
	THE DALLES	2033	2045	1,510	1,510	.05705	R	1,510
	DWORSHAK	2033	2045	47	47	.05705	R	47
	LOWER SNAKE F AND W	2033	2043	905	905	.05674	R	905
	DWORSHAK	2033	2043	160	160	.05674	R	160
	LOST CREEK	2033	2041	1	1	.05641	R	1
	LOWER MONUMENTAL	2033	2041	39	39	.05641	R	39
	JOHN DAY	2033	2040	24	24	.05624	R	24
	LOWER SNAKE F AND W	2033	2038	42	42	.05559	R	42

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(ALL AMOUNT IN \$1000)

YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	TOTAL							48,603
2034	COUGAR	2034	2069	2,249	2,249	.05984	R	2,249
	DETROIT-BIG CLIFF	2034	2074	11,245	11,245	.05984	R	11,245
	DETROIT-BIG CLIFF	2034	2074	1,309	1,309	.05984	R	1,309
	THE DALLES	2034	2059	2,236	2,236	.05906	R	2,236
	DETROIT-BIG CLIFF	2034	2054	259	259	.05829	R	259
	DETROIT-BIG CLIFF	2034	2054	4,000	4,000	.05829	R	4,000
	THE DALLES	2034	2049	1,107	1,107	.05752	R	1,107
	ICE HARBOR	2034	2046	4,200	4,200	.05705	R	4,200
	DETROIT-BIG CLIFF	2034	2044	28	28	.05674	R	28
	DETROIT-BIG CLIFF	2034	2042	4	4	.05641	R	4
	JOHN DAY	2034	2042	4	4	.05641	R	4
	ICE HARBOR	2034	2042	6,100	6,100	.05641	R	6,100
	LITTLE GOOSE	2034	2041	20	20	.05624	R	20
	COUGAR	2034	2041	2	2	.05624	R	2
	THE DALLES	2034	2039	38	38	.05559	R	38
	TOTAL							32,801
2035	LOWER GRANITE	2035	2065	583	583	.05984	R	583
	MCNARY	2035	2075	28,277	28,277	.05984	R	28,277
	LOOKOUT POINT-DEXTER	2035	2075	1,858	1,858	.05984	R	1,858
	LOOKOUT POINT-DEXTER	2035	2075	9,317	9,317	.05984	R	9,317
	ALBENI FALLS	2035	2075	560	560	.05984	R	560
	LIBBY	2035	2085	5,300	5,300	.05984	R	5,300
	LIBBY	2035	2060	244	244	.05906	R	244
	LOOKOUT POINT-DEXTER	2035	2055	385	385	.05829	R	385
	MCNARY	2035	2055	1,078	1,078	.05829	R	1,078
	LOOKOUT POINT-DEXTER	2035	2055	66	66	.05829	R	66
	ALBENI FALLS	2035	2055	815	815	.05829	R	815
	LOWER GRANITE	2035	2055	31,200	31,200	.05829	R	31,200
	LOWER GRANITE	2035	2050	15,200	15,200	.05752	R	15,200
	LOWER GRANITE	2035	2047	18	18	.05705	R	18
	LOOKOUT POINT-DEXTER	2035	2045	95	95	.05674	R	95
	MCNARY	2035	2045	51,000	51,000	.05674	R	51,000
	LOWER GRANITE	2035	2045	777	777	.05674	R	777
	ALBENI FALLS	2035	2045	1	1	.05674	R	1
	LITTLE GOOSE	2035	2043	35	35	.05641	R	35
	LOOKOUT POINT-DEXTER	2035	2043	5	5	.05641	R	5

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(ALL AMOUNT IN \$1000)

YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	MCNARY	2035	2043	52	52	.05641	R	52
	TOTAL							146,866
2036	YAKIMA-CHANDLER	2036	2076	413	413	.05984	R	413
	YAKIMA-CHANDLER	2036	2056	77	77	.05829	R	77
	LIBBY	2036	2056	581	581	.05829	R	581
	ICE HARBOR	2036	2056	170	170	.05829	R	170
	LIBBY	2036	2051	1,654	1,654	.05752	R	1,654
	YAKIMA-CHANDLER	2036	2046	52	52	.05674	R	52
	LIBBY	2036	2046	60	60	.05674	R	60
	COUGAR	2036	2044	3	3	.05641	R	3
	DWORSHAK	2036	2043	15	15	.05624	R	15
	THE DALLES	2036	2043	41	41	.05624	R	41
	BONNEVILLE	2036	2041	56,400	56,400	.05559	R	56,400
	TOTAL							59,466
2037	MINIDOKA	2037	2067	61	61	.05984	R	61
	LOST CREEK	2037	2067	143	143	.05984	R	143
	COLUMBIA BASIN	2037	2067	1,828	1,828	.05984	R	1,828
	MINIDOKA	2037	2077	1,433	1,433	.05984	R	1,433
	MINIDOKA	2037	2077	5,525	5,525	.05984	R	5,525
	CHIEF JOSEPH	2037	2077	24,126	24,126	.05984	R	24,126
	COLUMBIA BASIN	2037	2082	40,430	40,430	.05984	R	40,430
	ICE HARBOR	2037	2062	1,381	1,381	.05906	R	1,381
	HILLS CREEK	2037	2062	1	1	.05906	R	1
	LOST CREEK	2037	2057	33	33	.05829	R	33
	MINIDOKA	2037	2057	82	82	.05829	R	82
	MINIDOKA	2037	2057	243	243	.05829	R	243
	CHIEF JOSEPH	2037	2057	1,903	1,903	.05829	R	1,903
	COLUMBIA BASIN	2037	2052	738	738	.05752	R	738
	MINIDOKA	2037	2052	75	75	.05752	R	75
	LOST CREEK	2037	2049	4	4	.05705	R	4
	BONNEVILLE	2037	2049	127	127	.05705	R	127
	GREEN PETER-FOSTER	2037	2047	19	19	.05674	R	19
	MINIDOKA	2037	2047	14	14	.05674	R	14
	CHIEF JOSEPH	2037	2047	36	36	.05674	R	36
	DWORSHAK	2037	2045	33	33	.05641	R	33
	BONNEVILLE	2037	2045	3,500	3,500	.05641	R	3,500
	GREEN PETER-FOSTER	2037	2044	15	15	.05624	R	15

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YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	ICE HARBOR	2037	2042	11,900	11,900	.05559	R	11,900
	TOTAL							93,650
2038	COLUMBIA BASIN	2038	2068	2,052	2,052	.05984	R	2,052
	YAKIMA-ROZA	2038	2078	109	109	.05984	R	109
	LOWER GRANITE	2038	2058	273	273	.05829	R	273
	LITTLE GOOSE	2038	2058	169	169	.05829	R	169
	YAKIMA-ROZA	2038	2058	7	7	.05829	R	7
	COLUMBIA BASIN	2038	2058	4,796	4,796	.05829	R	4,796
	CHIEF JOSEPH	2038	2058	618	618	.05829	R	618
	LOWER GRANITE	2038	2053	273	273	.05752	R	273
	COLUMBIA BASIN	2038	2053	998	998	.05752	R	998
	CHIEF JOSEPH	2038	2053	176	176	.05752	R	176
	DETROIT-BIG CLIFF	2038	2050	21	21	.05705	R	21
	LITTLE GOOSE	2038	2048	907	907	.05674	R	907
	DETROIT-BIG CLIFF	2038	2045	2	2	.05624	R	2
	LOWER GRANITE	2038	2045	21	21	.05624	R	21
	LOWER SNAKE F AND W	2038	2043	42	42	.05559	R	42
	TOTAL							10,464
2039	LOWER MONUMENTAL	2039	2074	8,980	8,980	.05984	R	8,980
	THE DALLES	2039	2079	38,672	38,672	.05984	R	38,672
	COUGAR	2039	2064	117	117	.05906	R	117
	LOWER MONUMENTAL	2039	2059	270	270	.05829	R	270
	THE DALLES	2039	2059	1,089	1,089	.05829	R	1,089
	COUGAR	2039	2054	38	38	.05752	R	38
	LOOKOUT POINT-DEXTER	2039	2051	34	34	.05705	R	34
	MCNARY	2039	2051	25,000	25,000	.05705	R	25,000
	ALBENI FALLS	2039	2051	115	115	.05705	R	115
	THE DALLES	2039	2049	1	1	.05674	R	1
	LOWER MONUMENTAL	2039	2049	10	10	.05674	R	10
	THE DALLES	2039	2047	62	62	.05641	R	62
	LOWER GRANITE	2039	2047	28	28	.05641	R	28
	GREEN PETER-FOSTER	2039	2047	12	12	.05641	R	12
	LOWER SNAKE F AND W	2039	2047	95	95	.05641	R	95
	LOOKOUT POINT-DEXTER	2039	2046	13	13	.05624	R	13
	LIBBY	2039	2046	60	60	.05624	R	60
	ICE HARBOR	2039	2046	22,500	22,500	.05624	R	22,500
	LOWER MONUMENTAL	2039	2046	20	20	.05624	R	20

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YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	MCNARY	2039	2046	25	25	.05624	R	25
	BONNEVILLE	2039	2046	24,000	24,000	.05624	R	24,000
	LOWER SNAKE F AND W	2039	2046	497	497	.05624	R	497
	THE DALLES	2039	2044	38	38	.05559	R	38
	TOTAL							121,676
2040	JOHN DAY	2040	2075	471	471	.05984	R	471
	JOHN DAY	2040	2047	24	24	.05624	R	24
	TOTAL							495
2041	LITTLE GOOSE	2041	2076	10,958	10,958	.05984	R	10,958
	DETROIT-BIG CLIFF	2041	2091	493	493	.05984	R	493
	BONNEVILLE	2041	2091	18,805	18,805	.05984	R	18,805
	BONNEVILLE	2041	2066	2,263	2,263	.05906	R	2,263
	BONNEVILLE	2041	2061	542	542	.05829	R	542
	LOWER MONUMENTAL	2041	2053	2,000	2,000	.05705	R	2,000
	BONNEVILLE	2041	2051	98	98	.05674	R	98
	LITTLE GOOSE	2041	2051	10	10	.05674	R	10
	LOST CREEK	2041	2049	1	1	.05641	R	1
	LOWER MONUMENTAL	2041	2049	39	39	.05641	R	39
	LITTLE GOOSE	2041	2048	20	20	.05624	R	20
	COUGAR	2041	2048	2	2	.05624	R	2
	BONNEVILLE	2041	2046	56,400	56,400	.05559	R	56,400
	TOTAL							91,631
2042	ICE HARBOR	2042	2082	10,102	10,102	.05984	R	10,102
	HILLS CREEK	2042	2082	1,538	1,538	.05984	R	1,538
	MINIDOKA	2042	2067	1,716	1,716	.05906	R	1,716
	GREEN PETER-FOSTER	2042	2067	117	117	.05906	R	117
	ICE HARBOR	2042	2062	1,266	1,266	.05829	R	1,266
	BONNEVILLE	2042	2057	969	969	.05752	R	969
	JOHN DAY	2042	2054	38	38	.05705	R	38
	ICE HARBOR	2042	2052	11,600	11,600	.05674	R	11,600
	ICE HARBOR	2042	2050	6,100	6,100	.05641	R	6,100
	JOHN DAY	2042	2050	4	4	.05641	R	4
	DETROIT-BIG CLIFF	2042	2050	4	4	.05641	R	4
	ICE HARBOR	2042	2047	11,900	11,900	.05559	R	11,900
	TOTAL							45,354

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2043	LOWER SNAKE F AND W	2043	2073	1,931	1,931	.05984	R	1,931
	HUNGRY HORSE	2043	2073	414	414	.05984	R	414
	THE DALLES	2043	2078	13,653	13,653	.05984	R	13,653
	DWORSHAK	2043	2078	10,811	10,811	.05984	R	10,811
	HUNGRY HORSE	2043	2088	5,884	5,884	.05984	R	5,884
	GREEN PETER-FOSTER	2043	2068	60	60	.05906	R	60
	LOWER SNAKE F AND W	2043	2063	4,547	4,547	.05829	R	4,547
	HUNGRY HORSE	2043	2058	410	410	.05752	R	410
	LOWER SNAKE F AND W	2043	2058	978	978	.05752	R	978
	LOWER SNAKE F AND W	2043	2055	454	454	.05705	R	454
	LITTLE GOOSE	2043	2055	2,000	2,000	.05705	R	2,000
	THE DALLES	2043	2055	8	8	.05705	R	8
	LOWER SNAKE F AND W	2043	2053	905	905	.05674	R	905
	DWORSHAK	2043	2053	160	160	.05674	R	160
	LITTLE GOOSE	2043	2051	35	35	.05641	R	35
	MCNARY	2043	2051	52	52	.05641	R	52
	LOOKOUT POINT-DEXTER	2043	2051	5	5	.05641	R	5
	DWORSHAK	2043	2050	15	15	.05624	R	15
	THE DALLES	2043	2050	41	41	.05624	R	41
	LOWER SNAKE F AND W	2043	2048	42	42	.05559	R	42
	TOTAL							----- 42,405
2044	DETROIT-BIG CLIFF	2044	2074	541	541	.05984	R	541
	COUGAR	2044	2084	1,325	1,325	.05984	R	1,325
	DETROIT-BIG CLIFF	2044	2089	4,274	4,274	.05984	R	4,274
	LOWER MONUMENTAL	2044	2069	744	744	.05906	R	744
	COUGAR	2044	2064	62	62	.05829	R	62
	DETROIT-BIG CLIFF	2044	2059	20,500	20,500	.05752	R	20,500
	DETROIT-BIG CLIFF	2044	2059	15	15	.05752	R	15
	LOWER MONUMENTAL	2044	2059	25,700	25,700	.05752	R	25,700
	DETROIT-BIG CLIFF	2044	2054	28	28	.05674	R	28
	COUGAR	2044	2052	3	3	.05641	R	3
	GREEN PETER-FOSTER	2044	2051	15	15	.05624	R	15
	THE DALLES	2044	2049	38	38	.05559	R	38
	TOTAL							----- 53,245

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2045	LOWER GRANITE	2045	2080	7,381	7,381	.05984	R	7,381
	LOOKOUT POINT-DEXTER	2045	2090	2,023	2,023	.05984	R	2,023
	LOOKOUT POINT-DEXTER	2045	2090	4,868	4,868	.05984	R	4,868
	JOHN DAY	2045	2070	566	566	.05906	R	566
	LOOKOUT POINT-DEXTER	2045	2060	379	379	.05752	R	379
	MCNARY	2045	2060	18,500	18,500	.05752	R	18,500
	LIBBY	2045	2060	181	181	.05752	R	181
	JOHN DAY	2045	2060	138	138	.05752	R	138
	JOHN DAY	2045	2060	1,736	1,736	.05752	R	1,736
	ALBENI FALLS	2045	2060	51	51	.05752	R	51
	THE DALLES	2045	2057	1,510	1,510	.05705	R	1,510
	DWORSHAK	2045	2057	47	47	.05705	R	47
	LOWER GRANITE	2045	2055	777	777	.05674	R	777
	LOOKOUT POINT-DEXTER	2045	2055	95	95	.05674	R	95
	ALBENI FALLS	2045	2055	1	1	.05674	R	1
	MCNARY	2045	2055	51,000	51,000	.05674	R	51,000
	BONNEVILLE	2045	2053	3,500	3,500	.05641	R	3,500
	DWORSHAK	2045	2053	33	33	.05641	R	33
	LOWER GRANITE	2045	2052	21	21	.05624	R	21
	DETROIT-BIG CLIFF	2045	2052	2	2	.05624	R	2
	TOTAL							----- 92,809
2046	YAKIMA-CHANDLER	2046	2076	53	53	.05984	R	53
	LIBBY	2046	2081	9,143	9,143	.05984	R	9,143
	ICE HARBOR	2046	2081	5,632	5,632	.05984	R	5,632
	BONNEVILLE	2046	2081	64,155	64,155	.05984	R	64,155
	YAKIMA-CHANDLER	2046	2091	675	675	.05984	R	675
	LITTLE GOOSE	2046	2071	852	852	.05906	R	852
	LITTLE GOOSE	2046	2061	26,700	26,700	.05752	R	26,700
	YAKIMA-CHANDLER	2046	2061	22	22	.05752	R	22
	BONNEVILLE	2046	2061	2,249	2,249	.05752	R	2,249
	ICE HARBOR	2046	2058	4,200	4,200	.05705	R	4,200
	LIBBY	2046	2056	60	60	.05674	R	60
	YAKIMA-CHANDLER	2046	2056	52	52	.05674	R	52
	LIBBY	2046	2053	60	60	.05624	R	60
	ICE HARBOR	2046	2053	22,500	22,500	.05624	R	22,500
	MCNARY	2046	2053	25	25	.05624	R	25
	LOWER MONUMENTAL	2046	2053	20	20	.05624	R	20
	BONNEVILLE	2046	2053	24,000	24,000	.05624	R	24,000

APPLICATION OF AMORTIZATION

GENERATION FY 2005

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
LOOKOUT POINT-DEXTER	2046	2053	13	13	.05624	R	13
LOWER SNAKE F AND W	2046	2053	497	497	.05624	R	497
BONNEVILLE	2046	2051	56,400	56,400	.05559	R	56,400

TOTAL							217,308
2047							
MINIDOKA	2047	2077	77	77	.05984	R	77
BOISE	2047	2077	57	57	.05984	R	57
LOST CREEK	2047	2082	15	15	.05984	R	15
BONNEVILLE	2047	2082	13	13	.05984	R	13
GREEN PETER-FOSTER	2047	2087	3,349	3,349	.05984	R	3,349
BOISE	2047	2087	700	700	.05984	R	700
MINIDOKA	2047	2092	3,507	3,507	.05984	R	3,507
COLUMBIA BASIN	2047	2097	123,136	123,136	.05984	R	123,136
COLUMBIA BASIN	2047	2072	39,434	39,434	.05906	R	39,434
GREEN PETER-FOSTER	2047	2067	847	847	.05829	R	847
COLUMBIA BASIN	2047	2067	4,094	4,094	.05829	R	4,094
BOISE	2047	2067	123	123	.05829	R	123
MINIDOKA	2047	2062	111	111	.05752	R	111
CHIEF JOSEPH	2047	2062	1,245	1,245	.05752	R	1,245
BOISE	2047	2062	11	11	.05752	R	11
LOWER GRANITE	2047	2059	18	18	.05705	R	18
CHIEF JOSEPH	2047	2057	36	36	.05674	R	36
MINIDOKA	2047	2057	14	14	.05674	R	14
GREEN PETER-FOSTER	2047	2057	19	19	.05674	R	19
GREEN PETER-FOSTER	2047	2055	12	12	.05641	R	12
THE DALLES	2047	2055	62	62	.05641	R	62
LOWER SNAKE F AND W	2047	2055	95	95	.05641	R	95
LOWER GRANITE	2047	2055	28	28	.05641	R	28
JOHN DAY	2047	2054	24	24	.05624	R	24
ICE HARBOR	2047	2052	11,900	11,900	.05559	R	11,900

TOTAL							188,927

APPLICATION OF AMORTIZATION

GENERATION FY 2005

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2048	YAKIMA-ROZA	2048	2078	4	4	.05984	R	4
	LOWER GRANITE	2048	2083	8,693	8,693	.05984	R	8,693
	LITTLE GOOSE	2048	2083	8,551	8,551	.05984	R	8,551
	COLUMBIA BASIN	2048	2083	47,919	47,919	.05984	R	47,919
	CHIEF JOSEPH	2048	2083	60,806	60,806	.05984	R	60,806
	GREEN PETER-FOSTER	2048	2088	14,687	14,687	.05984	R	14,687
	YAKIMA-ROZA	2048	2093	184	184	.05984	R	184
	DWORSHAK	2048	2073	6,430	6,430	.05906	R	6,430
	GREEN PETER-FOSTER	2048	2068	692	692	.05829	R	692
	YAKIMA-ROZA	2048	2063	2	2	.05752	R	2
	DWORSHAK	2048	2063	2,552	2,552	.05752	R	2,552
	THE DALLES	2048	2063	1,708	1,708	.05752	R	1,708
	LITTLE GOOSE	2048	2058	907	907	.05674	R	907
	COUGAR	2048	2055	2	2	.05624	R	2
	LITTLE GOOSE	2048	2055	20	20	.05624	R	20
	LOWER SNAKE F AND W	2048	2053	42	42	.05559	R	42
	TOTAL							----- 153,199
2049	LOWER MONUMENTAL	2049	2084	8,260	8,260	.05984	R	8,260
	LOWER MONUMENTAL	2049	2089	9,200	9,200	.05984	R	9,200
	LOWER MONUMENTAL	2049	2069	26,300	26,300	.05829	R	26,300
	THE DALLES	2049	2064	1,107	1,107	.05752	R	1,107
	LOST CREEK	2049	2061	4	4	.05705	R	4
	BONNEVILLE	2049	2061	127	127	.05705	R	127
	THE DALLES	2049	2059	1	1	.05674	R	1
	LOWER MONUMENTAL	2049	2059	10	10	.05674	R	10
	LOST CREEK	2049	2057	1	1	.05641	R	1
	LOWER MONUMENTAL	2049	2057	39	39	.05641	R	39
	THE DALLES	2049	2054	38	38	.05559	R	38
	TOTAL							----- 45,087
2050	JOHN DAY	2050	2090	40,342	40,342	.05984	R	40,342
	LOWER GRANITE	2050	2075	181	181	.05906	R	181
	JOHN DAY	2050	2070	1,736	1,736	.05829	R	1,736
	LOWER GRANITE	2050	2065	15,200	15,200	.05752	R	15,200
	DETROIT-BIG CLIFF	2050	2062	21	21	.05705	R	21
	JOHN DAY	2050	2058	4	4	.05641	R	4
	ICE HARBOR	2050	2058	6,100	6,100	.05641	R	6,100
	DETROIT-BIG CLIFF	2050	2058	4	4	.05641	R	4

APPLICATION OF AMORTIZATION GENERATION FY 2005 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR	-----INVESTMENT PAID-----							
	(ALL AMOUNT IN \$1000)							
	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+	-----	-----	-----	-----	-----	-----	-----	-----
2053	LOWER SNAKE F AND W	2053	2088	993	993	.05984	R	993
	DWORSHAK	2053	2093	6,719	6,719	.05984	R	6,719
	HUNGRY HORSE	2053	2103	40,342	40,342	.05984	R	40,342
	LOWER GRANITE	2053	2078	102	102	.05906	R	102
	LITTLE GOOSE	2053	2078	33	33	.05906	R	33
	HUNGRY HORSE	2053	2078	9,375	9,375	.05906	R	9,375
	COLUMBIA BASIN	2053	2078	43,274	43,274	.05906	R	43,274
	CHIEF JOSEPH	2053	2078	298	298	.05906	R	298
	THE DALLES	2053	2073	197	197	.05829	R	197
	HUNGRY HORSE	2053	2073	616	616	.05829	R	616
	DWORSHAK	2053	2073	2,978	2,978	.05829	R	2,978
	LOWER GRANITE	2053	2068	273	273	.05752	R	273
	COLUMBIA BASIN	2053	2068	998	998	.05752	R	998
	CHIEF JOSEPH	2053	2068	176	176	.05752	R	176
	LOWER MONUMENTAL	2053	2065	2,000	2,000	.05705	R	2,000
	LOWER SNAKE F AND W	2053	2063	905	905	.05674	R	905
	DWORSHAK	2053	2063	160	160	.05674	R	160
	DWORSHAK	2053	2061	33	33	.05641	R	33
	BONNEVILLE	2053	2061	3,500	3,500	.05641	R	3,500
	LOWER SNAKE F AND W	2053	2060	497	497	.05624	R	497
	LOOKOUT POINT-DEXTER	2053	2060	13	13	.05624	R	13
	LOWER MONUMENTAL	2053	2060	20	20	.05624	R	20
	LIBBY	2053	2060	60	60	.05624	R	60
	ICE HARBOR	2053	2060	22,500	22,500	.05624	R	22,500
	MCNARY	2053	2060	25	25	.05624	R	25
	BONNEVILLE	2053	2060	24,000	24,000	.05624	R	24,000
	LOWER SNAKE F AND W	2053	2058	42	42	.05559	R	42
	TOTAL							----- 160,129
2054	LOWER MONUMENTAL	2054	2079	35	35	.05906	R	35
	DETROIT-BIG CLIFF	2054	2079	93	93	.05906	R	93
	DETROIT-BIG CLIFF	2054	2079	181	181	.05906	R	181
	DETROIT-BIG CLIFF	2054	2074	259	259	.05829	R	259
	DETROIT-BIG CLIFF	2054	2074	4,000	4,000	.05829	R	4,000
	COUGAR	2054	2069	38	38	.05752	R	38
	JOHN DAY	2054	2066	38	38	.05705	R	38
	DETROIT-BIG CLIFF	2054	2064	28	28	.05674	R	28
	JOHN DAY	2054	2061	24	24	.05624	R	24

CHAPTER 9

**REPAYMENT STUDY INPUT FILES
CURRENT STUDY
FY 2006**

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**The data in Computer File Form Used in
the FY 2006 Current Repayment Study
for Generation**

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1INPUT CARDS ONLY

N1 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL
N2 OCTOBER 1,2005 - SEPTEMBER 30,2006 COST EVALUATION PERIOD
N3 REPAY 06 GI00 - GENERATION, 2002 FINAL RATE PROPOSAL
N0 GENERATION

11999 0 0 770437 200620562056
OHISTORICAL YEAR: 1999
HISTORICAL CUMULATIVE REVENUES: 0
HISTORICAL CUMULATIVE PURCHASE & EXCHANGE: 0
HISTORICAL CUMULATIVE IRRIGATION INVESTMENT: 770437
YEAR OF THE RATE CHANGE: 2006
LAST YEAR OF REPAYMENT PERIOD: 2056

INTEREST RATES OF INTEREST INCOME

1X06839 06827 06914 06931 06830 06836 06836 06827

INTEREST RATES OF NEW DEFERRALS

1Y07500 07625 07500 07250 07125 06875 07000 06875

OPERATING YEAR FACTORS

1F75000 75000 75000 75000 75000 75000 75000 75000

PROJECTED REVENUE

22000 949360 977980 1008938 990615 1003336 1023425 1035701 6989355
22007 1033376 1033376 1033376 1033376 1033376 1033376 1033376 7233632
22014 1033376 1033376 1033376 1033376 1033376 1033376 1033376 7233632
22021 1033376 1033376 1033376 1033376 1033376 1033376 1033376 7233632
22028 1033376 1033376 1033376 1033376 1033376 1033376 1033376 7233632
22035 1033376 1033376 1033376 1033376 1033376 1033376 1033376 7233632
22042 1033376 1033376 1033376 1033376 1033376 1033376 1033376 7233632
22049 1033376 1033376 1033376 1033376 1033376 1033376 1033376 7233632
22056 1033376 1033376 1033376 1033376 1033376 1033376 1033376 7233632
9216368 9244988 9275946 9257623 9270344 9290433 9302709 64858411 = TOTAL FOR 2

PROJECTED IRRIGATION ASSISTANCE

	NEW INVESTMENT	NEW INVESTMENT	NEW INVESTMENT	
32000	0	0	0	0
32003	0	0	0	0
32006	0	0	0	0
32009	0	6942	6566	13508
32012	3476	19793	37530	60799
32015	5107	5394	35253	45754
32018	51187	10902	21258	83347
32021	39207	39049	29080	107336
32024	41806	20037	33228	95071

32027	32228	33386	44797		110411
32030	29963	29963	44797		104723
32033	40424	40424	29207		110055
32036	28549	28708	29310		86567
32039	29311	33835	33836		96982
32042	34694	34695	32941		102330
32045	32941	33099	39725		105765
32048	39883	39883	23256		103022
32051	23415	24346	31316		79077
32054	31316	31316	24194		86826
32057	24352	36906	37068		98326
32060	34318				34318
	522177	468678	0		1524217 = TOTAL FOR 3

CAPITALIZED CONTRACTUAL OBLIGATIONS

42000	647803	641433	567253	607002	595031	542149	575913	4176584
42007	592412	604796	587274	585491	605065	627264	384546	3986848
42014	379091	375036	365132	288805	126988	352752	352757	2240561
42021	349818	350317	350540	337075	336183	335627	335627	2395187
42028	335627	335627	334627	334627	334627	334627	334627	2344389
42035	334627	334627	334627	334627	334627	334627	334627	2342389
42042	334627	334627	334627	334627	334627	334627	334627	2342389
42049	334627	334627	334627	334627	334627	334627	0	2007762
42056	0	0	0	0	0	0	0	0
	3308632	3311090	3208707	3156881	3001775	3196300	2652724	21836109 = TOTAL FOR 4

5	ALBE	ALBENI FALLS
5	BOIS	BOISE
5	BON2	BONNEVILLE - 2ND POWER HOUSE
5	BONN	BONNEVILLE
5	CHIE	CHIEF JOSEPH
5	COL3	COLUMBIA BASIN - 3RD PWR HOUSE
5	COLU	COLUMBIA BASIN
5	COUG	COUGAR
5	CRFB	COLUMBIA RIVER FISH MITIGATION
5	DETR	DETROIT-BIG CLIFF
5	DWOR	DWORSHAK
5	GREE	GREEN PETER-FOSTER
5	HILL	HILLS CREEK
5	HUNG	HUNGRY HORSE
5	ICEF	ICE HARBOR FISH BYPASS
5	ICEH	ICE HARBOR
5	JOHN	JOHN DAY
5	LIBB	LIBBY
5	LITF	LITTLE GOOSE FISH BYPASS
5	LITT	LITTLE GOOSE
5	LOGF	LOWER GRANITE FISH BYPASS
5	LOMF	LOWER MONUMENTAL FISH BYPASS
5	LOOK	LOOKOUT POINT-DEXTER
5	LOST	LOST CREEK

5	LOWG	LOWER GRANITE
5	LOWM	LOWER MONUMENTAL
5	LSFW	LOWER SNAKE F AND W
5	MCNA	MCNARY
5	MCNF	MCNARY FISH BYPASS
5	MINI	MINIDOKA
5	STRU	STRUBE
5	THED	THE DALLES
5	YAKC	YAKIMA-CHANDLER
5	YAKR	YAKIMA-ROZA
5	ZABF	BPA PROGRAM
5	ZACO	BPA CONSERVATION
5	ZADB	BUREAU DIRECT FUND
5	ZAFW	FISH, WILDLIFE & ENVIRONMENTAL
5	ZBPA	BONNEVILLE POWER ADMINISTRATION
5	ZIRR	IRRIGATION ASSISTANCE

HISTORICAL
O & M INTEREST

5	ALBEX	46124	28741	74865
5	BOISX	37894	1219	39113
5	BONNX	159278	404368	563646
5	CHIEX	157353	341762	499115
5	COLUX	439614	523602	963216
5	COUGX	8325	14094	22419
5	CRFBX	0	10685	10685
5	DETRX	28066	36358	64424
5	DWORX	86776	181080	267856
5	GREEX	25086	36298	61384
5	HILLX	7982	14445	22427
5	HUNGX	35067	51482	86549
5	ICEHX	68783	103828	172611
5	JOHNX	130461	272420	402881
5	LIBBX	54613	267605	322218
5	LITTX	64213	154450	218663
5	LOOKX	32943	44304	77247
5	LOSTX	14656	16439	31095
5	LOWGX	86708	208147	294855
5	LOWMX	64436	168805	233241
5	LSFWX	109509	108916	218425
5	MCNAX	167850	243309	411159
5	MINIX	79765	2794	82559
5	THEDX	124576	233403	357979
5	YAKCX	19378	2916	22294
5	YAKRX	9178	824	10002
5	ZBPAX	0	0	0
5	ZACOX	0	0	0
		2058634	3472294	5530928 = TOTAL FOR 5

PROJECTED O & M

0

0 = TOTAL FOR 6

61994ZABF 0
0

0 = TOTAL FOR 6

HISTORICAL FEDERAL INVESTMENTS

			ORIGINAL	CURRENT	INTEREST	DUE	INSERVICE	CALENDAR
	PROJECT		PRINCIPAL	PRINCIPAL	RATE	DATE	DATE	MONTH
6	1998	ALBE X	25494	16854	.06910	2005		1955
6	1998	ALBE X	11	11	.06910	2005 R		1956
6	1998	ALBE X	10	10	.06910	2005 R		1957
6	1998	ALBE X	11	11	.06910	2005 R		1958
6	1998	ALBE X	11	11	.06910	2005 R		1959
6	1998	ALBE X	10	10	.06910	2005 R		1960
6	1998	ALBE X	11	11	.06910	2005 R		1961
6	1998	ALBE X	11	11	.06910	2005 R		1962
6	1998	ALBE X	10	10	.06910	2005 R		1963
6	1998	ALBE X	11	11	.06910	2005 R		1964
6	1998	ALBE X	11	11	.06910	2005 R		1965
6	1998	ALBE X	10	10	.06910	2005 R		1966
6	1998	ALBE X	11	11	.06910	2005 R		1967
6	1998	ALBE X	11	11	.06910	2005 R		1968
6	1998	ALBE X	10	10	.06910	2005 R		1969
6	1998	ALBE X	11	11	.06910	2005 R		1970
6	1998	ALBE X	11	11	.06910	2005 R		1971
6	1998	ALBE X	10	10	.06910	2005 R		1972
6	1998	ALBE X	11	11	.06910	2005 R		1973
6	1998	ALBE X	11	11	.06910	2005 R		1974
6	1998	ALBE X	10	10	.06910	2005 R		1975
6	1998	ALBE X	11	11	.06910	2005 R		1976
6	1998	ALBE X	11	11	.06910	2005 R		1977
6	1998	ALBE X	10	10	.06910	2005 R		1978
6	1998	ALBE X	11	11	.06910	2005 R		1979
6	1998	ALBE X	11	11	.06910	2005 R		1980
6	1998	ALBE X	10	10	.06910	2005 R		1981
6	1998	ALBE X	11	11	.06910	2005 R		1982
6	1998	ALBE X	11	11	.06910	2005 R		1983
6	1998	ALBE X	7	7	.06910	2005		1985
6	1998	ALBE X	293	293	.06910	2005		1986
6	1998	ALBE X	15	0	.08875	2005 R		1987
6	1998	ALBE X	12	12	.06910	2005		1987
6	1998	ALBE X	328	0	.08500	2005 R		1988
6	1998	ALBE X	221	0	.09250	2005 R		1989
6	1998	ALBE X	1287	0	.08875	2005		1990
6	1998	ALBE X	43	0	.08750	2005 R		1991
6	1998	ALBE X	111	0	.08750	2005		1991
6	1998	ALBE X	7	0	.08500	2005 R		1992
6	1998	ALBE X	106	0	.08500	2005		1992
6	1998	ALBE X	714	0	.07875	2005 R		1993
6	1998	ALBE X	295	0	.07875	2005		1993

6	1998	ALBE	X	61	0	.07125	2019	R	1994
6	1998	ALBE	X	173	0	.07125	2019		1994
6	1998	ALBE	X	17	17	.07090	2010		1995
6	1998	ALBE	X	51	0	.07890	2010		1995
6	1998	ALBE	X	443	443	.07150	2045		1995
6	1998	ALBE	X	531	531	.07150	2045		1995
6	1998	ALBE	X	1105	1105	.07150	2045		1995
6	1998	ALBE	X	130	130	.07290	2016		1996
6	1998	ALBE	X	477	477	.07150	2047		1997
6	1998	BOIS	X	1249	0	.03000	1962		1912
6	1998	BOIS	X	285	0	.03000	1962		1912
6	1998	BOIS	X	832	0	.03000	1976		1926
6	1998	BOIS	X	190	0	.03000	1976		1926
6	1998	BOIS	X	416	0	.03000	2000		1950
6	1998	BOIS	X	95	0	.03000	2000		1950
6	1998	BOIS	X	1873	0	.03000	2001		1951
6	1998	BOIS	X	428	0	.03000	2001		1951
6	1998	BOIS	X	11	0	.03000	2001	R	1952
6	1998	BOIS	X	3	0	.03000	2001	R	1952
6	1998	BOIS	X	11	0	.03000	2001	R	1953
6	1998	BOIS	X	3	0	.03000	2001	R	1953
6	1998	BOIS	X	11	0	.03000	2001	R	1954
6	1998	BOIS	X	3	0	.03000	2001	R	1954
6	1998	BOIS	X	11	0	.03000	2001	R	1955
6	1998	BOIS	X	3	0	.03000	2001	R	1955
6	1998	BOIS	X	11	0	.03000	2001	R	1956
6	1998	BOIS	X	3	0	.03000	2001	R	1956
6	1998	BOIS	X	11	0	.03000	2001	R	1957
6	1998	BOIS	X	3	0	.03000	2001	R	1957
6	1998	BOIS	X	11	0	.03000	2001	R	1958
6	1998	BOIS	X	3	0	.03000	2001	R	1958
6	1998	BOIS	X	11	0	.03000	2001	R	1959
6	1998	BOIS	X	3	0	.03000	2001	R	1959
6	1998	BOIS	X	11	0	.03000	2001	R	1960
6	1998	BOIS	X	3	0	.03000	2001	R	1960
6	1998	BOIS	X	11	0	.03000	2001	R	1961
6	1998	BOIS	X	3	0	.03000	2001	R	1961
6	1998	BOIS	X	11	0	.03000	2001	R	1962
6	1998	BOIS	X	3	0	.03000	2001	R	1962
6	1998	BOIS	X	11	0	.03000	2001	R	1963
6	1998	BOIS	X	3	0	.03000	2001	R	1963
6	1998	BOIS	X	11	0	.03000	2001	R	1964
6	1998	BOIS	X	3	0	.03000	2001	R	1964
6	1998	BOIS	X	11	0	.03000	2001	R	1965
6	1998	BOIS	X	3	0	.03000	2001	R	1965
6	1998	BOIS	X	11	0	.03000	2001	R	1966
6	1998	BOIS	X	3	0	.03000	2001	R	1966
6	1998	BOIS	X	11	0	.03000	2001	R	1967
6	1998	BOIS	X	3	0	.03000	2001	R	1967
6	1998	BOIS	X	11	0	.03000	2001	R	1968
6	1998	BOIS	X	3	0	.03000	2001	R	1968
6	1998	BOIS	X	11	0	.03000	2001	R	1969
6	1998	BOIS	X	3	0	.03000	2001	R	1969

6	1998	BOIS X	11	0	.03000	2001 R	1970
6	1998	BOIS X	3	0	.03000	2001 R	1970
6	1998	BOIS X	11	0	.03000	2001 R	1971
6	1998	BOIS X	3	0	.03000	2001 R	1971
6	1998	BOIS X	11	0	.03000	2001 R	1972
6	1998	BOIS X	3	0	.03000	2001 R	1972
6	1998	BOIS X	11	0	.03000	2001 R	1973
6	1998	BOIS X	3	0	.03000	2001 R	1973
6	1998	BOIS X	11	0	.03000	2001 R	1974
6	1998	BOIS X	3	0	.03000	2001 R	1974
6	1998	BOIS X	11	0	.03000	2001 R	1975
6	1998	BOIS X	3	0	.03000	2001 R	1975
6	1998	BOIS X	11	0	.03000	2001 R	1976
6	1998	BOIS X	3	0	.03000	2001 R	1976
6	1998	BOIS X	11	0	.03000	2001 R	1977
6	1998	BOIS X	3	0	.03000	2001 R	1977
6	1998	BOIS X	11	0	.03000	2001 R	1978
6	1998	BOIS X	3	0	.03000	2001 R	1978
6	1998	BOIS X	11	0	.03000	2001 R	1979
6	1998	BOIS X	3	0	.03000	2001 R	1979
6	1998	BOIS X	18	0	.03000	2001 R	1980
6	1998	BOIS X	4	0	.03000	2001 R	1980
6	1998	BOIS X	8	0	.03000	2001 R	1981
6	1998	BOIS X	2	0	.03000	2001 R	1981
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1982
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1	0	.03000	2001 R	1983
6	1998	BOIS X	1325	0	.10750	2001 R	1984
6	1998	BOIS X	303	0	.10750	2001 R	1984
6	1998	BOIS X	94	89	.06710	2001	1986
6	1998	BOIS X	3	0	.08500	2001	1988
6	1998	BOIS X	3264	0	.09250	2001 R	1989
6	1998	BOIS X	38	0	.08875	2001 R	1990
6	1998	BOIS X	50	0	.08750	2001 R	1991
6	1998	BOIS X	418	0	.07875	2001	1993
6	1998	BOIS X	7	0	.07125	1999 R	1994
6	1998	BOIS X	450	450	.07150	2046	1996
6	1998	BOIS X	7	7	.06950	2006	1996
6	1998	BOIS X	656	656	.07150	2046	1996
6	1998	BOIS X	9	9	.06950	2007	1997
6	1998	BOIS X	2284	2284	.07150	2047	1997
6	1998	BON2 X	40964	40964	.07150	2031 A	1981
6	1998	BON2 X	455	455	.07150	2031 A	1981
6	1998	BON2 X	203535	203535	.07150	2032 A	1982
6	1998	BON2 X	2264	2264	.07150	2032 A	1982
6	1998	BON2 X	62409	62409	.07150	2033 A	1983
6	1998	BON2 X	694	694	.07150	2033 A	1983
6	1998	BON2 X	9138	9138	.07150	2033 A	1985
6	1998	BON2 X	30578	30578	.07150	2033 A	1986
6	1998	BON2 X	2801	2801	.07150	2033 A	1987
6	1998	BON2 X	1271	1271	.07150	2033 A	1988
6	1998	BON2 X	1232	1232	.07150	2033 A	1989

6	1998	BON2	X	1588	1588	.07150	2033	A	1990
6	1998	BON2	X	3998	0	.08750	2033	A	1991
6	1998	BON2	X	26	0	.08750	2033	R	1991
6	1998	BON2	X	2446	0	.08500	2033	A	1992
6	1998	BON2	X	3668	0	.07875	2033	A	1993
6	1998	BON2	X	5700	5700	.07150	2044	A	1994
6	1998	BON2	X	3791	3791	.07150	2045		1995
6	1998	BON2	X	376	376	.07150	2046		1996
6	1998	BONN	X	11726	0	.02500	1988		1938
6	1998	BONN	X	130	0	.02500	1988		1938
6	1998	BONN	X	17589	0	.02500	1991		1941
6	1998	BONN	X	196	0	.02500	1991		1941
6	1998	BONN	X	5863	0	.02500	1992		1942
6	1998	BONN	X	65	0	.02500	1992		1942
6	1998	BONN	X	17589	0	.02500	1993		1943
6	1998	BONN	X	196	0	.02500	1993		1943
6	1998	BONN	X	5860	0	.02500	1994		1944
6	1998	BONN	X	65	0	.02500	1994		1944
6	1998	BONN	X	82	0	.02500	1994	R	1945
6	1998	BONN	X	1	0	.02500	1994	R	1945
6	1998	BONN	X	81	0	.02500	1994	R	1946
6	1998	BONN	X	1	0	.02500	1994	R	1946
6	1998	BONN	X	82	0	.02500	1994	R	1947
6	1998	BONN	X	1	0	.02500	1994	R	1947
6	1998	BONN	X	81	0	.02500	1994	R	1948
6	1998	BONN	X	1	0	.02500	1994	R	1948
6	1998	BONN	X	82	0	.02500	1994	R	1949
6	1998	BONN	X	1	0	.02500	1994	R	1949
6	1998	BONN	X	81	0	.02500	1994	R	1950
6	1998	BONN	X	11	0	.02500	1994	R	1950
6	1998	BONN	X	81	0	.02500	1994	R	1951
6	1998	BONN	X	11	0	.02500	1994	R	1951
6	1998	BONN	X	82	0	.02500	1994	R	1952
6	1998	BONN	X	1	0	.02500	1994	R	1952
6	1998	BONN	X	81	0	.02500	1994	R	1953
6	1998	BONN	X	1	0	.02500	1994	R	1953
6	1998	BONN	X	82	0	.02500	1994	R	1954
6	1998	BONN	X	1	0	.02500	1994	R	1954
6	1998	BONN	X	81	0	.02500	1994	R	1955
6	1998	BONN	X	1	0	.02500	1994	R	1955
6	1998	BONN	X	81	0	.02500	1994	R	1956
6	1998	BONN	X	1	0	.02500	1994	R	1956
6	1998	BONN	X	82	0	.02500	1994	R	1957
6	1998	BONN	X	1	0	.02500	1994	R	1957
6	1998	BONN	X	81	0	.02500	1994	R	1958
6	1998	BONN	X	1	0	.02500	1994	R	1958
6	1998	BONN	X	82	0	.02500	1994	R	1959
6	1998	BONN	X	1	0	.02500	1994	R	1959
6	1998	BONN	X	81	0	.02500	1994	R	1960
6	1998	BONN	X	1	0	.02500	1994	R	1960
6	1998	BONN	X	81	0	.02500	1994	R	1961
6	1998	BONN	X	1	0	.02500	1994	R	1961
6	1998	BONN	X	82	0	.02500	1994	R	1962

6	1998	BONN	X	1	0	.02500	1994	R	1962
6	1998	BONN	X	81	0	.02500	1994	R	1963
6	1998	BONN	X	1	0	.02500	1994	R	1963
6	1998	BONN	X	82	0	.02500	1994	R	1964
6	1998	BONN	X	1	0	.02500	1994	R	1964
6	1998	BONN	X	81	0	.02500	1994	R	1965
6	1998	BONN	X	1	0	.02500	1994	R	1965
6	1998	BONN	X	81	0	.02500	1994	R	1966
6	1998	BONN	X	1	0	.02500	1994	R	1966
6	1998	BONN	X	82	0	.02500	1994	R	1967
6	1998	BONN	X	1	0	.02500	1994	R	1967
6	1998	BONN	X	81	0	.02500	1994	R	1968
6	1998	BONN	X	1	0	.02500	1994	R	1968
6	1998	BONN	X	82	0	.02500	1994	R	1969
6	1998	BONN	X	1	0	.02500	1994	R	1969
6	1998	BONN	X	81	0	.02500	1994	R	1970
6	1998	BONN	X	1	0	.02500	1994	R	1970
6	1998	BONN	X	81	0	.02500	1994	R	1971
6	1998	BONN	X	1	0	.02500	1994	R	1971
6	1998	BONN	X	82	0	.02500	1994	R	1972
6	1998	BONN	X	1	0	.02500	1994	R	1972
6	1998	BONN	X	81	0	.02500	1994	R	1973
6	1998	BONN	X	1	0	.02500	1994	R	1973
6	1998	BONN	X	82	0	.02500	1994	R	1974
6	1998	BONN	X	1	0	.02500	1994	R	1974
6	1998	BONN	X	81	0	.02500	1994	R	1975
6	1998	BONN	X	1	0	.02500	1994	R	1975
6	1998	BONN	X	81	0	.02500	1994	R	1976
6	1998	BONN	X	1	0	.02500	1994	R	1976
6	1998	BONN	X	15670	15670	.07150	2027	B	1977
6	1998	BONN	X	82	0	.02500	1994	R	1977
6	1998	BONN	X	1	0	.02500	1994	R	1977
6	1998	BONN	X	81	0	.02500	1994	R	1978
6	1998	BONN	X	1	0	.02500	1994	R	1978
6	1998	BONN	X	82	0	.02500	1994	R	1979
6	1998	BONN	X	1	0	.02500	1994	R	1979
6	1998	BONN	X	81	0	.02500	1994	R	1980
6	1998	BONN	X	1	0	.02500	1994	R	1980
6	1998	BONN	X	81	0	.02500	1994	R	1981
6	1998	BONN	X	1	0	.02500	1994	R	1981
6	1998	BONN	X	82	0	.02500	1994	R	1982
6	1998	BONN	X	2	0	.02500	1994	R	1982
6	1998	BONN	X	81	0	.02500	1994	R	1983
6	1998	BONN	X	1	0	.02500	1994	R	1983
6	1998	BONN	X	873	0	.10750	1994	R	1984
6	1998	BONN	X	10	0	.10750	1994	R	1984
6	1998	BONN	X	119	0	.02500	1994	R	1985
6	1998	BONN	X	454	0	.11375	1994	R	1986
6	1998	BONN	X	555	0	.02500	1994	R	1986
6	1998	BONN	X	26	0	.08875	1994	R	1987
6	1998	BONN	X	260	0	.02500	1994	R	1987
6	1998	BONN	X	4199	0	.08500	1994	R	1988
6	1998	BONN	X	10	0	.08500	1994	R	1988

6	1998	BONN	X	877	0	.09250	1994	R	1989
6	1998	BONN	X	519	0	.08875	1994	R	1990
6	1998	BONN	X	651	0	.08875	1994	A	1990
6	1998	BONN	X	35	0	.08750	1994	R	1991
6	1998	BONN	X	3193	0	.08750	1994		1991
6	1998	BONN	X	99	0	.08500	1994	R	1992
6	1998	BONN	X	25	0	.08500	1994		1992
6	1998	BONN	X	5011	0	.07875	2018		1993
6	1998	BONN	X	536	0	.07125	2029	A	1994
6	1998	BONN	X	8	0	.07330	2000		1995
6	1998	BONN	X	20	20	.07250	2020		1995
6	1998	BONN	X	22	22	.07250	2020	R	1995
6	1998	BONN	X	25	25	.07090	2010	R	1995
6	1998	BONN	X	53	0	.07860	2030		1995
6	1998	BONN	X	98	0	.07860	2035		1995
6	1998	BONN	X	327	243	.07150	2045		1995
6	1998	BONN	X	410	410	.07150	2045	R	1995
6	1998	BONN	X	374	0	.07860	2045	R	1995
6	1998	BONN	X	440	440	.07150	2045	R	1995
6	1998	BONN	X	18	18	.07150	2046		1996
6	1998	BONN	X	18	18	.07150	2046		1996
6	1998	BONN	X	22	22	.07150	2031		1996
6	1998	BONN	X	80	80	.07150	2046		1996
6	1998	BONN	X	109	109	.07150	2046		1996
6	1998	BONN	X	142	142	.07150	2046		1996
6	1998	BONN	X	223	223	.07150	2046		1996
6	1998	BONN	X	751	751	.07150	2046		1996
6	1998	BONN	X	834	834	.07290	2016	R	1996
6	1998	BONN	X	1322	1322	.07150	2046	R	1996
6	1998	BONN	X	122	122	.07230	2022		1997
6	1998	BONN	X	518	518	.07150	2032		1997
6	1998	BONN	X	161	161	.07150	2047		1997
6	1999	BONN	X	29984	29984	.05325	2044		1999
6	1998	CHIE	X	28313	2262	.06910	2005		1955
6	1998	CHIE	X	13643	13643	.06950	2006		1956
6	1998	CHIE	X	39586	39586	.06980	2007		1957
6	1998	CHIE	X	31901	31901	.07020	2008		1958
6	1998	CHIE	X	223	223	.07020	2008	R	1959
6	1998	CHIE	X	223	223	.07020	2008	R	1960
6	1998	CHIE	X	223	223	.07020	2008	R	1961
6	1998	CHIE	X	223	223	.07020	2008	R	1962
6	1998	CHIE	X	224	224	.07020	2008	R	1963
6	1998	CHIE	X	223	223	.07020	2008	R	1964
6	1998	CHIE	X	223	223	.07020	2008	R	1965
6	1998	CHIE	X	223	223	.07020	2008	R	1966
6	1998	CHIE	X	223	223	.07020	2008	R	1967
6	1998	CHIE	X	224	224	.07020	2008	R	1968
6	1998	CHIE	X	223	223	.07020	2008	R	1969
6	1998	CHIE	X	223	223	.07020	2008	R	1970
6	1998	CHIE	X	223	223	.07020	2008	R	1971
6	1998	CHIE	X	223	223	.07020	2008	R	1972
6	1998	CHIE	X	224	224	.07020	2008	R	1973
6	1998	CHIE	X	223	223	.07020	2008	R	1974

6	1998	CHIE X	223	223	.07020	2008 R	1975
6	1998	CHIE X	223	223	.07020	2008 R	1976
6	1998	CHIE X	30512	30512	.07150	2027 A	1977
6	1998	CHIE X	223	223	.07020	2008 R	1977
6	1998	CHIE X	75669	75669	.07150	2028 A	1978
6	1998	CHIE X	224	224	.07020	2008 R	1978
6	1998	CHIE X	60079	60079	.07150	2029 A	1979
6	1998	CHIE X	223	223	.07020	2008 R	1979
6	1998	CHIE X	223	223	.07020	2008 R	1980
6	1998	CHIE X	223	223	.07020	2008 R	1981
6	1998	CHIE X	223	223	.07020	2008 R	1982
6	1998	CHIE X	224	224	.07020	2008 R	1983
6	1998	CHIE X	909	0	.10750	2008 R	1984
6	1998	CHIE X	16372	16372	.07150	2029 A	1985
6	1998	CHIE X	46	46	.07020	2008	1985
6	1998	CHIE X	5363	5363	.07150	2029 A	1986
6	1998	CHIE X	104	0	.08875	2008 R	1987
6	1998	CHIE X	3036	3036	.07150	2029 A	1987
6	1998	CHIE X	2722	2722	.07150	2029 A	1988
6	1998	CHIE X	327	0	.09250	2008 R	1989
6	1998	CHIE X	2227	2227	.07150	2029 A	1989
6	1998	CHIE X	4505	4505	.07150	2029	1990
6	1998	CHIE X	1024	0	.08875	2008 A	1990
6	1998	CHIE X	3840	0	.08750	2029 A	1991
6	1998	CHIE X	34	0	.08750	2008 R	1991
6	1998	CHIE X	293	0	.08750	2008	1991
6	1998	CHIE X	2032	0	.08500	2029 A	1992
6	1998	CHIE X	142	0	.08500	2008 R	1992
6	1998	CHIE X	717	0	.08500	2008	1992
6	1998	CHIE X	42	0	.07875	2008 R	1993
6	1998	CHIE X	794	0	.07875	2008	1993
6	1998	CHIE X	1360	0	.07875	2029 A	1993
6	1998	CHIE X	129	0	.07125	2029	1994
6	1998	CHIE X	65	0	.07125	2029 R	1994
6	1998	CHIE X	4280	4017	.07150	2044 A	1994
6	1998	CHIE X	15	15	.07090	2010	1995
6	1998	CHIE X	147	147	.07150	2045	1995
6	1998	CHIE X	562	562	.07150	2045	1995
6	1998	CHIE X	712	712	.07150	2045 R	1995
6	1998	CHIE X	784	784	.07150	2045	1995
6	1998	CHIE X	3	3	.07150	2046 R	1996
6	1998	CHIE X	4	4	.07150	2046 R	1996
6	1998	CHIE X	27	27	.07150	2031 R	1996
6	1998	CHIE X	355	355	.07150	2046	1996
6	1998	CHIE X	729	729	.07150	2046	1996
6	1998	CHIE X	166	166	.07150	2032	1997
6	1998	CHIE X	657	657	.07150	2047	1997
6	1998	COL3 X	47328	36690	.07160	2025 A	1975
6	1998	COL3 X	8702	7435	.07160	2025 A	1975
6	1998	COL3 X	41330	41330	.07150	2026 A	1976
6	1998	COL3 X	8037	8037	.07150	2026 A	1976
6	1998	COL3 X	42764	42764	.07150	2027 A	1977
6	1998	COL3 X	7964	7964	.07150	2027 A	1977

6	1998	COL3	X	42399	42399	.07150	2028	A	1978
6	1998	COL3	X	7896	7896	.07150	2028	A	1978
6	1998	COL3	X	84118	84118	.07150	2029	A	1979
6	1998	COL3	X	15666	15666	.07150	2029	A	1979
6	1998	COL3	X	712	712	.07150	2033	B	1983
6	1998	COL3	X	13003	13003	.07150	2033	A	1983
6	1998	COL3	X	16965	16965	.07150	2033	A	1984
6	1998	COL3	X	13192	13192	.07150	2033	A	1984
6	1998	COL3	X	3160	3160	.07150	2033	A	1984
6	1998	COL3	X	41772	41772	.07150	2033	A	1985
6	1998	COL3	X	107	107	.07150	2033		1985
6	1998	COL3	X	2060	2060	.07150	2033		1985
6	1998	COL3	X	15538	15538	.07150	2033	A	1986
6	1998	COL3	X	1851	1851	.07150	2033	A	1986
6	1998	COL3	X	14439	14439	.07150	2033	A	1987
6	1998	COL3	X	1730	1730	.07150	2033	A	1987
6	1998	COL3	X	4351	4351	.07150	2033	A	1988
6	1998	COL3	X	2294	2294	.07150	2033	A	1988
6	1998	COL3	X	10902	10902	.07150	2033	A	1989
6	1998	COL3	X	6383	6383	.07150	2033	A	1990
6	1998	COL3	X	39	0	.08750	2033	A	1991
6	1998	COL3	X	1360	0	.08500	2033	A	1992
6	1998	COL3	X	12962	0	.07875	2033	A	1993
6	1998	COL3	X	12631	12631	.07150	2044	A	1994
6	1998	COLU	X	10919	0	.03000	1991		1941
6	1998	COLU	X	1505	0	.03000	1991		1941
6	1998	COLU	X	16165	0	.03000	1992		1942
6	1998	COLU	X	3011	0	.03000	1992		1942
6	1998	COLU	X	8083	0	.03000	1993		1943
6	1998	COLU	X	1505	0	.03000	1993		1943
6	1998	COLU	X	16165	0	.03000	1994		1944
6	1998	COLU	X	3011	0	.03000	1994		1944
6	1998	COLU	X	24247	0	.03000	1998		1948
6	1998	COLU	X	4516	0	.03000	1998		1948
6	1998	COLU	X	24247	0	.03000	1999		1949
6	1998	COLU	X	4516	0	.03000	1999		1949
6	1998	COLU	X	16165	0	.03000	2000		1950
6	1998	COLU	X	3011	0	.03000	2000		1950
6	1998	COLU	X	28255	7719	.06710	2001		1951
6	1998	COLU	X	5790	1437	.06710	2001		1951
6	1998	COLU	X	258	258	.06710	2001	R	1952
6	1998	COLU	X	48	48	.06710	2001	R	1952
6	1998	COLU	X	258	258	.06710	2001	R	1953
6	1998	COLU	X	48	48	.06710	2001	R	1953
6	1998	COLU	X	258	258	.06710	2001	R	1954
6	1998	COLU	X	48	48	.06710	2001	R	1954
6	1998	COLU	X	258	258	.06710	2001	R	1955
6	1998	COLU	X	48	48	.06710	2001	R	1955
6	1998	COLU	X	259	259	.06710	2001	R	1956
6	1998	COLU	X	48	48	.06710	2001	R	1956
6	1998	COLU	X	258	258	.06710	2001	R	1957
6	1998	COLU	X	48	48	.06710	2001	R	1957
6	1998	COLU	X	258	258	.06710	2001	R	1958

6	1998	COLU X	48	48	.06710	2001 R	1958
6	1998	COLU X	258	258	.06710	2001 R	1959
6	1998	COLU X	48	48	.06710	2001 R	1959
6	1998	COLU X	258	258	.06710	2001 R	1960
6	1998	COLU X	48	48	.06710	2001 R	1960
6	1998	COLU X	259	259	.06710	2001 R	1961
6	1998	COLU X	48	48	.06710	2001 R	1961
6	1998	COLU X	258	258	.06710	2001 R	1962
6	1998	COLU X	48	48	.06710	2001 R	1962
6	1998	COLU X	258	258	.06710	2001 R	1963
6	1998	COLU X	48	48	.06710	2001 R	1963
6	1998	COLU X	258	258	.06710	2001 R	1964
6	1998	COLU X	48	48	.06710	2001 R	1964
6	1998	COLU X	258	258	.06710	2001 R	1965
6	1998	COLU X	48	48	.06710	2001 R	1965
6	1998	COLU X	259	258	.06710	2001 R	1966
6	1998	COLU X	48	48	.06710	2001 R	1966
6	1998	COLU X	258	258	.06710	2001 R	1967
6	1998	COLU X	758	758	.07290	2017 B	1967
6	1998	COLU X	48	48	.06710	2001 R	1967
6	1998	COLU X	258	258	.06710	2001 R	1968
6	1998	COLU X	48	48	.06710	2001 R	1968
6	1998	COLU X	258	258	.06710	2001 R	1969
6	1998	COLU X	48	48	.06710	2001 R	1969
6	1998	COLU X	258	258	.06710	2001 R	1970
6	1998	COLU X	48	48	.06710	2001 R	1970
6	1998	COLU X	259	259	.06710	2001 R	1971
6	1998	COLU X	48	48	.06710	2001 R	1971
6	1998	COLU X	258	258	.06710	2001 R	1972
6	1998	COLU X	48	48	.06710	2001 R	1972
6	1998	COLU X	258	258	.06710	2001 R	1973
6	1998	COLU X	48	48	.06710	2001 R	1973
6	1998	COLU X	258	258	.06710	2001 R	1974
6	1998	COLU X	48	48	.06710	2001 R	1974
6	1998	COLU X	258	258	.06710	2001 R	1975
6	1998	COLU X	48	48	.06710	2001 R	1975
6	1998	COLU X	259	259	.06710	2001 R	1976
6	1998	COLU X	48	48	.06710	2001 R	1976
6	1998	COLU X	258	258	.06710	2001 R	1977
6	1998	COLU X	48	48	.06710	2001 R	1977
6	1998	COLU X	258	258	.06710	2001 R	1978
6	1998	COLU X	48	48	.06710	2001 R	1978
6	1998	COLU X	258	258	.06710	2001 R	1979
6	1998	COLU X	48	48	.06710	2001 R	1979
6	1998	COLU X	258	258	.06710	2001 R	1980
6	1998	COLU X	48	48	.06710	2001 R	1980
6	1998	COLU X	259	259	.06710	2001 R	1981
6	1998	COLU X	48	48	.06710	2001 R	1981
6	1998	COLU X	258	258	.06710	2001 R	1982
6	1998	COLU X	48	48	.06710	2001 R	1982
6	1998	COLU X	258	258	.06710	2001 R	1983
6	1998	COLU X	48	48	.06710	2001 R	1983
6	1998	COLU X	7815	0	.10750	2001 R	1984

6	1998	COLU X	1455	0	.10750	2001 R	1984
6	1998	COLU X	7338	0	.12375	2001 R	1985
6	1998	COLU X	236	236	.06710	2001	1985
6	1998	COLU X	362	0	.12375	2001	1985
6	1998	COLU X	11	11	.06710	2001	1985
6	1998	COLU X	127	127	.06710	2001	1986
6	1998	COLU X	13	13	.06710	2001	1987
6	1998	COLU X	184	0	.08500	2001 R	1988
6	1998	COLU X	2	0	.08500	2001 R	1988
6	1998	COLU X	1166	0	.09250	2001 R	1989
6	1998	COLU X	928	0	.08875	2001 R	1990
6	1998	COLU X	177	0	.08750	2001	1991
6	1998	COLU X	1661	0	.08750	2001 R	1991
6	1998	COLU X	445	0	.08500	2001 R	1992
6	1998	COLU X	652	0	.08500	2001 R	1992
6	1998	COLU X	795	45	.06710	2001	1993
6	1998	COLU X	20	0	.07860	2030	1995
6	1998	COLU X	25	25	.07150	2030	1995
6	1998	COLU X	25	25	.06620	2000	1995
6	1998	COLU X	206	0	.07250	2020	1995
6	1998	COLU X	270	0	.07860	2030	1995
6	1998	COLU X	321	0	.07860	2030 R	1995
6	1998	COLU X	323	0	.07860	2030 R	1995
6	1998	COLU X	450	0	.07860	2045 R	1995
6	1998	COLU X	292	292	.07150	2045 R	1995
6	1998	COLU X	2511	2453	.07150	2045	1995
6	1998	COLU X	76	76	.07150	2026	1996
6	1998	COLU X	109	109	.07150	2031	1996
6	1998	COLU X	251	251	.07150	2031	1996
6	1998	COLU X	426	426	.07150	2046	1996
6	1998	COLU X	368	368	.07150	2046	1996
6	1998	COLU X	3393	3393	.07150	2047	1997
6	1998	COUG X	10414	9042	.07230	2014	1964
6	1998	COUG X	20	20	.07230	2014 R	1965
6	1998	COUG X	20	20	.07230	2014 R	1966
6	1998	COUG X	20	20	.07230	2014 R	1967
6	1998	COUG X	20	20	.07230	2014 R	1968
6	1998	COUG X	20	20	.07230	2014 R	1969
6	1998	COUG X	20	20	.07230	2014 R	1970
6	1998	COUG X	20	20	.07230	2014 R	1971
6	1998	COUG X	20	20	.07230	2014 R	1972
6	1998	COUG X	20	20	.07230	2014 R	1973
6	1998	COUG X	19	19	.07230	2014 R	1974
6	1998	COUG X	20	20	.07230	2014 R	1975
6	1998	COUG X	20	20	.07230	2014 R	1976
6	1998	COUG X	20	20	.07230	2014 R	1977
6	1998	COUG X	20	20	.07230	2014 R	1978
6	1998	COUG X	20	20	.07230	2014 R	1979
6	1998	COUG X	20	20	.07230	2014 R	1980
6	1998	COUG X	20	20	.07230	2014 R	1981
6	1998	COUG X	20	20	.07230	2014 R	1982
6	1998	COUG X	20	20	.07230	2014 R	1983
6	1998	COUG X	1	0	.10750	2014 R	1984

6	1998	COUG X	1	1	.07230	2014	1985
6	1998	COUG X	55	0	.11375	2014 R	1986
6	1998	COUG X	104	104	.07230	2014	1986
6	1998	COUG X	45	45	.07230	2014	1987
6	1998	COUG X	2	0	.08500	2014	1988
6	1998	COUG X	6	0	.09250	2014 R	1989
6	1998	COUG X	10	0	.08875	2014 R	1990
6	1998	COUG X	1015	0	.08750	2014 R	1991
6	1998	COUG X	1	0	.08750	2014	1991
6	1998	COUG X	2	0	.08500	2014 R	1992
6	1998	COUG X	539	0	.07875	2014	1993
6	1998	COUG X	31	0	.07125	2019 A	1994
6	1998	COUG X	3	0	.07330	2000	1995
6	1998	COUG X	26	26	.07150	2047	1997
6	1998	CRFB X	3969	0	.08500	2041	1991
6	1998	CRFB X	874	0	.08500	2042	1992
6	1998	CRFB X	85846	0	.08500	2043	1993
6	1998	CRFB X	39454	0	.08500	2044	1994
6	1998	CRFB X	43343	703	.07150	2045	1995
6	1998	CRFB X	42357	42357	.07150	2046	1996
6	1999	CRFB X	20689	20689	.05325	2049	1999
6	1998	DETR X	12533	3078	.06880	2003	1953
6	1998	DETR X	20162	20162	.06880	2004	1954
6	1998	DETR X	18	18	.06880	2004 R	1955
6	1998	DETR X	19	19	.06880	2004 R	1956
6	1998	DETR X	18	18	.06880	2004 R	1957
6	1998	DETR X	19	19	.06880	2004 R	1958
6	1998	DETR X	18	18	.06880	2004 R	1959
6	1998	DETR X	19	19	.06880	2004 R	1960
6	1998	DETR X	18	18	.06880	2004 R	1961
6	1998	DETR X	19	19	.06880	2004 R	1962
6	1998	DETR X	18	18	.06880	2004 R	1963
6	1998	DETR X	19	19	.06880	2004 R	1964
6	1998	DETR X	18	18	.06880	2004 R	1965
6	1998	DETR X	19	19	.06880	2004 R	1966
6	1998	DETR X	18	18	.06880	2004 R	1967
6	1998	DETR X	19	19	.06880	2004 R	1968
6	1998	DETR X	18	18	.06880	2004 R	1969
6	1998	DETR X	19	19	.06880	2004 R	1970
6	1998	DETR X	18	18	.06880	2004 R	1971
6	1998	DETR X	19	19	.06880	2004 R	1972
6	1998	DETR X	18	18	.06880	2004 R	1973
6	1998	DETR X	19	19	.06880	2004 R	1974
6	1998	DETR X	18	18	.06880	2004 R	1975
6	1998	DETR X	19	19	.06880	2004 R	1976
6	1998	DETR X	18	18	.06880	2004 R	1977
6	1998	DETR X	19	19	.06880	2004 R	1978
6	1998	DETR X	18	18	.06880	2004 R	1979
6	1998	DETR X	19	19	.06880	2004 R	1980
6	1998	DETR X	18	18	.06880	2004 R	1981
6	1998	DETR X	19	19	.06880	2004 R	1982
6	1998	DETR X	18	18	.06880	2004 R	1983
6	1998	DETR X	21	0	.10750	2004 R	1984

6	1998	DETR	X	6	6	.06880	2004	1985
6	1998	DETR	X	38	0	.11375	2004 R	1986
6	1998	DETR	X	233	0	.08875	2004 R	1987
6	1998	DETR	X	3	3	.06880	2004	1987
6	1998	DETR	X	68	0	.08500	2004 R	1988
6	1998	DETR	X	26	0	.09250	2004 R	1989
6	1998	DETR	X	115	0	.08875	2004	1990
6	1998	DETR	X	9	0	.08750	2004 R	1991
6	1998	DETR	X	20	0	.08750	2004	1991
6	1998	DETR	X	8	0	.08500	2004	1992
6	1998	DETR	X	211	0	.07875	2004	1993
6	1998	DETR	X	7	0	.07125	1999 R	1994
6	1998	DETR	X	38	38	.07150	2045	1995
6	1998	DETR	X	13	0	.07330	2000	1995
6	1998	DETR	X	24	24	.06950	2006	1996
6	1998	DWOR	X	138443	132996	.07190	2023	1973
6	1998	DWOR	X	836	803	.07190	2023	1973
6	1998	DWOR	X	515	515	.07190	2023 R	1974
6	1998	DWOR	X	3	3	.07190	2023 R	1974
6	1998	DWOR	X	518	518	.07190	2023 R	1975
6	1998	DWOR	X	3	3	.07190	2023 R	1975
6	1998	DWOR	X	518	518	.07190	2023 R	1976
6	1998	DWOR	X	3	3	.07190	2023 R	1976
6	1998	DWOR	X	518	518	.07190	2023 R	1977
6	1998	DWOR	X	3	3	.07190	2023 R	1977
6	1998	DWOR	X	518	518	.07190	2023 R	1978
6	1998	DWOR	X	3	3	.07190	2023 R	1978
6	1998	DWOR	X	518	518	.07190	2023 R	1979
6	1998	DWOR	X	3	3	.07190	2023 R	1979
6	1998	DWOR	X	518	518	.07190	2023 R	1980
6	1998	DWOR	X	3	3	.07190	2023 R	1980
6	1998	DWOR	X	518	518	.07190	2023 R	1981
6	1998	DWOR	X	3	3	.07190	2023 R	1981
6	1998	DWOR	X	518	518	.07190	2023 R	1982
6	1998	DWOR	X	3	3	.07190	2023 R	1982
6	1998	DWOR	X	523	523	.07190	2023 R	1983
6	1998	DWOR	X	3	3	.07190	2023 R	1983
6	1998	DWOR	X	2499	0	.10750	2023 R	1984
6	1998	DWOR	X	15	0	.10750	2023 R	1984
6	1998	DWOR	X	1141	1141	.07190	2023	1985
6	1998	DWOR	X	197	197	.07190	2023	1986
6	1998	DWOR	X	65	0	.08875	2023 R	1987
6	1998	DWOR	X	30	5	.07190	2023	1987
6	1998	DWOR	X	61	0	.08500	2023 R	1988
6	1998	DWOR	X	63	0	.09250	2023 R	1989
6	1998	DWOR	X	245	0	.08875	2023 R	1990
6	1998	DWOR	X	24	0	.08875	2023	1990
6	1998	DWOR	X	224	0	.08750	2023	1991
6	1998	DWOR	X	4	0	.02625	2023	1992
6	1998	DWOR	X	28	0	.08500	2023 R	1992
6	1998	DWOR	X	24	0	.08500	2023	1992
6	1998	DWOR	X	41	0	.07875	2023 R	1993
6	1998	DWOR	X	1872	0	.07875	2023	1993

6	1998	DWOR	X	1351	0	.07125	2029	R	1994
6	1998	DWOR	X	964	0	.07125	2029	A	1994
6	1998	DWOR	X	55	0	.07930	2020		1995
6	1998	DWOR	X	218	218	.07150	2030		1995
6	1998	DWOR	X	1162	1162	.07150	2045		1995
6	1998	DWOR	X	3	3	.07150	2046		1996
6	1998	DWOR	X	4	4	.07150	2046		1996
6	1998	DWOR	X	6	6	.07150	2031		1996
6	1998	DWOR	X	26	26	.07230	2021		1996
6	1998	DWOR	X	46	46	.07150	2046		1996
6	1998	DWOR	X	107	107	.07130	2011		1996
6	1998	DWOR	X	184	184	.07230	2021		1996
6	1998	DWOR	X	203	203	.07150	2031		1996
6	1998	DWOR	X	7588	7588	.07150	2047		1997
6	1998	GREE	X	12892	11919	.07290	2017		1967
6	1998	GREE	X	12180	12180	.07280	2018		1968
6	1998	GREE	X	39	39	.07280	2018	R	1969
6	1998	GREE	X	40	40	.07280	2018	R	1970
6	1998	GREE	X	39	39	.07280	2018	R	1971
6	1998	GREE	X	39	39	.07280	2018	R	1972
6	1998	GREE	X	39	39	.07280	2018	R	1973
6	1998	GREE	X	39	39	.07280	2018	R	1974
6	1998	GREE	X	39	39	.07280	2018	R	1975
6	1998	GREE	X	39	39	.07280	2018	R	1976
6	1998	GREE	X	39	39	.07280	2018	R	1977
6	1998	GREE	X	39	39	.07280	2018	R	1978
6	1998	GREE	X	39	39	.07280	2018	R	1979
6	1998	GREE	X	40	40	.07280	2018	R	1980
6	1998	GREE	X	39	39	.07280	2018	R	1981
6	1998	GREE	X	39	39	.07280	2018	R	1982
6	1998	GREE	X	39	39	.07280	2018	R	1983
6	1998	GREE	X	15	0	.10750	2018	R	1984
6	1998	GREE	X	16	16	.07280	2018		1985
6	1998	GREE	X	3	0	.11375	2018	R	1986
6	1998	GREE	X	3	3	.07280	2018		1986
6	1998	GREE	X	2	0	.08875	2018	R	1987
6	1998	GREE	X	1	1	.07280	2018		1987
6	1998	GREE	X	13	0	.08500	2018		1988
6	1998	GREE	X	24	0	.09250	2018	R	1989
6	1998	GREE	X	5	0	.08875	2018		1990
6	1998	GREE	X	48	0	.08750	2018		1991
6	1998	GREE	X	2	0	.08500	2018		1992
6	1998	GREE	X	41	0	.07875	2018		1993
6	1998	GREE	X	6	0	.07125	1999	A	1994
6	1998	GREE	X	4	0	.07330	2000		1995
6	1998	GREE	X	11	11	.07250	2020		1995
6	1998	GREE	X	24	24	.07250	2020		1995
6	1998	GREE	X	26	26	.07150	2046		1996
6	1998	HILL	X	10353	9264	.07160	2012		1962
6	1998	HILL	X	12	12	.07160	2012	R	1963
6	1998	HILL	X	13	13	.07160	2012	R	1964
6	1998	HILL	X	13	13	.07160	2012	R	1965
6	1998	HILL	X	13	13	.07160	2012	R	1966

6	1998	HILL X	13	13	.07160	2012 R	1967
6	1998	HILL X	13	13	.07160	2012 R	1968
6	1998	HILL X	13	13	.07160	2012 R	1969
6	1998	HILL X	13	13	.07160	2012 R	1970
6	1998	HILL X	13	13	.07160	2012 R	1971
6	1998	HILL X	13	13	.07160	2012 R	1972
6	1998	HILL X	13	13	.07160	2012 R	1973
6	1998	HILL X	13	13	.07160	2012 R	1974
6	1998	HILL X	13	13	.07160	2012 R	1975
6	1998	HILL X	13	13	.07160	2012 R	1976
6	1998	HILL X	13	13	.07160	2012 R	1977
6	1998	HILL X	13	13	.07160	2012 R	1978
6	1998	HILL X	13	13	.07160	2012 R	1979
6	1998	HILL X	13	13	.07160	2012 R	1980
6	1998	HILL X	13	13	.07160	2012 R	1981
6	1998	HILL X	13	13	.07160	2012 R	1982
6	1998	HILL X	13	13	.07160	2012 R	1983
6	1998	HILL X	52	0	.10750	2012 R	1984
6	1998	HILL X	6	6	.07160	2012	1985
6	1998	HILL X	3	0	.08875	2012 R	1987
6	1998	HILL X	3	0	.08500	2012 R	1988
6	1998	HILL X	3	0	.08875	2012	1990
6	1998	HILL X	17	0	.08750	2012	1991
6	1998	HILL X	1	0	.08500	2012	1992
6	1998	HILL X	13	0	.07875	2012	1993
6	1998	HILL X	28	28	.07150	2046	1996
6	1998	HUNG X	71160	16359	.06840	2003	1953
6	1998	HUNG X	2126	490	.06840	2003	1953
6	1998	HUNG X	17	17	.06840	2003 R	1954
6	1998	HUNG X	1	1	.06840	2003 R	1954
6	1998	HUNG X	17	17	.06840	2003 R	1955
6	1998	HUNG X	1	1	.06840	2003 R	1955
6	1998	HUNG X	17	17	.06840	2003 R	1956
6	1998	HUNG X	1	1	.06840	2003 R	1956
6	1998	HUNG X	18	18	.06840	2003 R	1957
6	1998	HUNG X	1	1	.06840	2003 R	1957
6	1998	HUNG X	18	18	.06840	2003 R	1958
6	1998	HUNG X	1	1	.06840	2003 R	1958
6	1998	HUNG X	18	18	.06840	2003 R	1959
6	1998	HUNG X	1	1	.06840	2003 R	1959
6	1998	HUNG X	18	18	.06840	2003 R	1960
6	1998	HUNG X	1	1	.06840	2003 R	1960
6	1998	HUNG X	18	18	.06840	2003 R	1961
6	1998	HUNG X	1	1	.06840	2003 R	1961
6	1998	HUNG X	18	18	.06840	2003 R	1962
6	1998	HUNG X	1	1	.06840	2003 R	1962
6	1998	HUNG X	18	18	.06840	2003 R	1963
6	1998	HUNG X	1	1	.06840	2003 R	1963
6	1998	HUNG X	17	17	.06840	2003 R	1964
6	1998	HUNG X	1	1	.06840	2003 R	1964
6	1998	HUNG X	17	17	.06840	2003 R	1965
6	1998	HUNG X	1	1	.06840	2003 R	1965
6	1998	HUNG X	17	17	.06840	2003 R	1966

6	1998	HUNG X	1	1	.06840	2003 R	1966
6	1998	HUNG X	18	18	.06840	2003 R	1967
6	1998	HUNG X	1	1	.06840	2003 R	1967
6	1998	HUNG X	18	18	.06840	2003 R	1968
6	1998	HUNG X	1	1	.06840	2003 R	1968
6	1998	HUNG X	18	18	.06840	2003 R	1969
6	1998	HUNG X	1	1	.06840	2003 R	1969
6	1998	HUNG X	18	18	.06840	2003 R	1970
6	1998	HUNG X	1	1	.06840	2003 R	1970
6	1998	HUNG X	18	18	.06840	2003 R	1971
6	1998	HUNG X	1	1	.06840	2003 R	1971
6	1998	HUNG X	18	18	.06840	2003 R	1972
6	1998	HUNG X	1	1	.06840	2003 R	1972
6	1998	HUNG X	18	18	.06840	2003 R	1973
6	1998	HUNG X	1	1	.06840	2003 R	1973
6	1998	HUNG X	17	17	.06840	2003 R	1974
6	1998	HUNG X	1	1	.06840	2003 R	1974
6	1998	HUNG X	17	17	.06840	2003 R	1975
6	1998	HUNG X	1	1	.06840	2003 R	1975
6	1998	HUNG X	10	10	.06840	2003 R	1976
6	1998	HUNG X	1	1	.06840	2003 R	1976
6	1998	HUNG X	18	18	.06840	2003 R	1977
6	1998	HUNG X	1	1	.06840	2003 R	1977
6	1998	HUNG X	18	18	.06840	2003 R	1978
6	1998	HUNG X	1	1	.06840	2003 R	1978
6	1998	HUNG X	18	18	.06840	2003 R	1979
6	1998	HUNG X	1	1	.06840	2003 R	1979
6	1998	HUNG X	18	18	.06840	2003 R	1980
6	1998	HUNG X	1	1	.06840	2003 R	1980
6	1998	HUNG X	22	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1981
6	1998	HUNG X	1	1	.06840	2003 R	1982
6	1998	HUNG X	12	12	.06840	2003 R	1983
6	1998	HUNG X	1	1	.06840	2003 R	1983
6	1998	HUNG X	32	0	.10750	2003 R	1984
6	1998	HUNG X	1	0	.10750	2003 R	1984
6	1998	HUNG X	36	0	.12375	2003 R	1985
6	1998	HUNG X	37	0	.12375	2003 R	1985
6	1998	HUNG X	101	0	.09250	2003 R	1989
6	1998	HUNG X	58	0	.08875	2003 R	1990
6	1998	HUNG X	19	0	.08750	2003 R	1991
6	1998	HUNG X	9	0	.08500	2003	1992
6	1998	HUNG X	4136	0	.07875	2003 R	1993
6	1998	HUNG X	2	0	.07875	2003	1993
6	1998	HUNG X	56	0	.07125	2019 R	1994
6	1998	HUNG X	156	6	.06620	2000 R	1995
6	1998	HUNG X	450	0	.07930	2020 R	1995
6	1998	HUNG X	536	536	.07150	2030 R	1995
6	1998	HUNG X	1198	1195	.07150	2030 R	1995
6	1998	HUNG X	6190	6190	.07150	2045	1995
6	1998	HUNG X	84	84	.06620	2000	1995
6	1998	HUNG X	14354	0	.07860	2045	1995
6	1998	HUNG X	15	15	.07150	2046	1996

6	1998	HUNG X	2	2	.07150	2046	1996
6	1998	HUNG X	154	154	.06950	2007	1997
6	1998	HUNG X	216	216	.07150	2047	1997
6	1998	ICEH X	59669	44308	.07160	2012	1962
6	1996	ICEH X	664	493	.07160	2012	1962
6	1998	ICEH X	46	46	.07160	2012 R	1963
6	1998	ICEH X	1	1	.07160	2012 R	1963
6	1998	ICEH X	46	46	.07160	2012 R	1964
6	1998	ICEH X	1	1	.07160	2012 R	1964
6	1998	ICEH X	46	46	.07160	2012 R	1965
6	1998	ICEH X	1	1	.07160	2012 R	1965
6	1998	ICEH X	46	46	.07160	2012 R	1966
6	1998	ICEH X	1	1	.07160	2012 R	1966
6	1998	ICEH X	46	46	.07160	2012 R	1967
6	1998	ICEH X	1	1	.07160	2012 R	1967
6	1998	ICEH X	46	46	.07160	2012 R	1968
6	1998	ICEH X	1	1	.07160	2012 R	1968
6	1998	ICEH X	46	46	.07160	2012 R	1969
6	1998	ICEH X	1	1	.07160	2012 R	1969
6	1998	ICEH X	46	46	.07160	2012 R	1970
6	1998	ICEH X	1	1	.07160	2012 R	1970
6	1998	ICEH X	46	46	.07160	2012 R	1971
6	1998	ICEH X	1	1	.07160	2012 R	1971
6	1998	ICEH X	46	46	.07160	2012 R	1972
6	1998	ICEH X	1	1	.07160	2012 R	1972
6	1998	ICEH X	46	46	.07160	2012 R	1973
6	1998	ICEH X	1	1	.07160	2012 R	1973
6	1998	ICEH X	46	46	.07160	2012 R	1974
6	1998	ICEH X	1	1	.07160	2012 R	1974
6	1998	ICEH X	46	46	.07160	2012 R	1975
6	1998	ICEH X	1	1	.07160	2012 R	1975
6	1998	ICEH X	20472	20472	.07150	2026 A	1976
6	1998	ICEH X	46	46	.07160	2012 R	1976
6	1998	ICEH X	228	228	.07150	2026 A	1976
6	1998	ICEH X	1	1	.07160	2012 R	1976
6	1998	ICEH X	46	46	.07160	2012 R	1977
6	1998	ICEH X	1	1	.07160	2012 R	1977
6	1998	ICEH X	46	46	.07160	2012 R	1978
6	1998	ICEH X	1	1	.07160	2012 R	1978
6	1998	ICEH X	46	46	.07160	2012 R	1979
6	1998	ICEH X	1	1	.07160	2012 R	1979
6	1998	ICEH X	46	46	.07160	2012 R	1980
6	1998	ICEH X	1	1	.07160	2012 R	1980
6	1998	ICEH X	46	46	.07160	2012 R	1981
6	1998	ICEH X	1	1	.07160	2012 R	1981
6	1998	ICEH X	46	46	.07160	2012 R	1982
6	1998	ICEH X	1	1	.07160	2012 R	1982
6	1998	ICEH X	46	46	.07160	2012 R	1983
6	1998	ICEH X	1	1	.07160	2012 R	1983
6	1998	ICEH X	21	21	.07150	2026 A	1985
6	1998	ICEH X	41	41	.07160	2012	1985
6	1998	ICEH X	137	137	.07160	2012	1986
6	1998	ICEH X	71	0	.08875	2012 R	1987

6	1998	ICEH X	3	3	.07160	2012	1987
6	1998	ICEH X	1	0	.08875	2012	1987
6	1998	ICEH X	8	0	.08500	2012	1988
6	1998	ICEH X	57	0	.08500	2012 R	1988
6	1998	ICEH X	51	0	.09250	2012 R	1989
6	1998	ICEH X	427	0	.08875	2012 R	1990
6	1998	ICEH X	348	0	.08750	2012 R	1991
6	1998	ICEH X	177	0	.08500	2012	1992
6	1998	ICEH X	3192	0	.07875	2012 R	1993
6	1998	ICEH X	1645	0	.07875	2012	1993
6	1998	ICEH X	328	0	.07125	2029 R	1994
6	1998	ICEH X	520	0	.07125	2029 A	1994
6	1998	ICEH X	2	0	.07330	2000 R	1995
6	1998	ICEH X	84	84	.07270	2019	1995
6	1998	ICEH X	171	171	.07270	2019	1995
6	1998	ICEH X	849	849	.07270	2019	1995
6	1998	ICEH X	78	78	.07150	2031	1996
6	1998	ICEH X	371	371	.07150	2041 R	1996
6	1998	ICEH X	66	66	.07230	2022	1997
6	1998	ICEH X	67	67	.07150	2047	1997
6	1998	JOHN X	27254	21686	.07280	2018	1968
6	1998	JOHN X	96104	96104	.07270	2019	1969
6	1998	JOHN X	23656	23656	.07250	2020	1970
6	1998	JOHN X	34974	34974	.07230	2021	1971
6	1998	JOHN X	11502	11502	.07210	2022	1972
6	1998	JOHN X	3677	0	.10750	2022 R	1984
6	1998	JOHN X	1209	0	.12375	2022 R	1985
6	1998	JOHN X	6490	6490	.07210	2022	1985
6	1998	JOHN X	713	0	.11375	2022 R	1986
6	1998	JOHN X	3227	3227	.07210	2022	1986
6	1998	JOHN X	4353	0	.08875	2022 R	1987
6	1998	JOHN X	706	706	.07210	2022	1987
6	1998	JOHN X	332	0	.08500	2022	1988
6	1998	JOHN X	199	0	.08500	2022 R	1988
6	1998	JOHN X	377	0	.09250	2022 R	1989
6	1998	JOHN X	30	30	.07210	2022	1989
6	1998	JOHN X	37	37	.07210	2022	1990
6	1998	JOHN X	543	0	.08875	2022 R	1990
6	1998	JOHN X	13218	0	.08750	2022 R	1991
6	1998	JOHN X	144	0	.08750	2022	1991
6	1998	JOHN X	19	19	.07210	2022	1992
6	1998	JOHN X	95	0	.08500	2022	1992
6	1998	JOHN X	7810	0	.07875	2022 R	1993
6	1998	JOHN X	9585	0	.07875	2022	1993
6	1998	JOHN X	14	0	.07125	2019 R	1994
6	1998	JOHN X	1252	0	.07125	2029 A	1994
6	1998	JOHN X	2	0	.07330	2000	1995
6	1998	JOHN X	9	0	.07330	2000 R	1995
6	1998	JOHN X	22	22	.07150	2035	1995
6	1998	JOHN X	37	37	.07150	2045	1995
6	1998	JOHN X	52	52	.07150	2035	1995
6	1998	JOHN X	79	79	.07250	2020	1995
6	1998	JOHN X	121	121	.07150	2035	1995

6	1998	JOHN X	608	608	.07150	2045	1995
6	1998	JOHN X	7653	7653	.07150	2045 R	1995
6	1998	JOHN X	237	237	.07130	2011	1996
6	1998	JOHN X	1072	1072	.07290	2016	1996
6	1998	JOHN X	133	133	.07230	2022	1997
6	1998	JOHN X	179	179	.07150	2047	1997
6	1998	LIBB X	54644	48138	.07160	2025	1975
6	1998	LIBB X	153432	153432	.07150	2026	1976
6	1998	LIBB X	1465	1465	.07150	2026 R	1977
6	1998	LIBB X	1465	1465	.07150	2026 R	1978
6	1998	LIBB X	1465	1465	.07150	2026 R	1979
6	1998	LIBB X	1465	1465	.07150	2026 R	1980
6	1998	LIBB X	1465	1465	.07150	2026 R	1981
6	1998	LIBB X	1465	1465	.07150	2026 R	1982
6	1998	LIBB X	1465	1465	.07150	2026 R	1983
6	1998	LIBB X	104	0	.10750	2026 R	1984
6	1998	LIBB X	518	518	.07150	2026	1985
6	1998	LIBB X	283	283	.07150	2026	1986
6	1998	LIBB X	2	2	.07150	2026	1987
6	1998	LIBB X	18043	14781	.07150	2038 A	1988
6	1998	LIBB X	35	0	.08505	2026	1988
6	1998	LIBB X	131	0	.09250	2026 R	1989
6	1998	LIBB X	1	1	.07150	2026	1989
6	1998	LIBB X	11	0	.08875	2026	1990
6	1998	LIBB X	134	0	.08750	2026 R	1991
6	1998	LIBB X	100	0	.08500	2026 R	1992
6	1998	LIBB X	70	0	.08500	2026	1992
6	1998	LIBB X	600	0	.07875	2026	1993
6	1998	LIBB X	215	0	.07125	2029 R	1994
6	1998	LIBB X	286	152	.07150	2029 A	1994
6	1998	LIBB X	15	15	.07150	2030 R	1995
6	1998	LIBB X	41	41	.07150	2030	1995
6	1998	LIBB X	94	94	.07150	2030 R	1995
6	1998	LIBB X	432	432	.07230	2022	1997
6	1998	LIBB X	660	660	.07150	2047	1997
6	1998	LITT X	22326	21301	.07250	2020	1970
6	1998	LITT X	42962	42962	.07230	2021	1971
6	1998	LITT X	28	28	.07230	2021 R	1972
6	1998	LITT X	29	29	.07230	2021 R	1973
6	1998	LITT X	28	28	.07230	2021 R	1974
6	1998	LITT X	29	29	.07230	2021 R	1975
6	1998	LITT X	28	28	.07230	2021 R	1976
6	1998	LITT X	29	29	.07230	2021 R	1977
6	1998	LITT X	49578	49578	.07150	2028 A	1978
6	1998	LITT X	28	28	.07230	2021 R	1978
6	1998	LITT X	29	29	.07230	2021 R	1979
6	1998	LITT X	28	28	.07230	2021 R	1980
6	1998	LITT X	29	29	.07230	2021 R	1981
6	1998	LITT X	28	28	.07230	2021 R	1982
6	1998	LITT X	29	29	.07230	2021 R	1983
6	1998	LITT X	201	0	.10750	2021 R	1984
6	1998	LITT X	47	47	.07150	2028 A	1985
6	1998	LITT X	174	174	.07230	2021	1985

6	1998	LITT X	239	239	.07230	2021	1986
6	1998	LITT X	72	0	.08875	2021 R	1987
6	1998	LITT X	6	6	.07230	2021	1987
6	1998	LITT X	12	0	.08500	2021	1988
6	1998	LITT X	68	0	.08500	2021 R	1988
6	1998	LITT X	77	0	.09250	2021 R	1989
6	1998	LITT X	408	0	.08875	2021 R	1990
6	1998	LITT X	21	0	.08875	2021	1990
6	1998	LITT X	266	0	.08750	2021 R	1991
6	1998	LITT X	66	0	.08500	2021 R	1992
6	1998	LITT X	27	0	.08500	2021	1992
6	1998	LITT X	276	0	.07875	2021 R	1993
6	1998	LITT X	3359	0	.07875	2021	1993
6	1998	LITT X	37	0	.07125	2019 R	1994
6	1998	LITT X	2044	0	.07125	2029 A	1994
6	1998	LITT X	17	17	.07150	2040	1995
6	1998	LITT X	450	450	.07150	2040	1995
6	1998	LITT X	733	733	.07150	2040 R	1995
6	1998	LITT X	10	10	.07150	2046	1996
6	1998	LITT X	10	10	.07150	2046 R	1996
6	1998	LITT X	211	211	.07150	2046	1996
6	1998	LITT X	241	241	.07150	2046	1996
6	1998	LITT X	520	520	.07150	2046 R	1996
6	1998	LITT X	3909	3909	.07150	2046 R	1996
6	1998	LITT X	1	1	.07150	2047	1997
6	1998	LOOK X	34290	28417	.06910	2005	1955
6	1998	LOOK X	52	52	.06910	2005 R	1956
6	1998	LOOK X	51	51	.06910	2005 R	1957
6	1998	LOOK X	51	51	.06910	2005 R	1958
6	1998	LOOK X	51	51	.06910	2005 R	1959
6	1998	LOOK X	51	51	.06910	2005 R	1960
6	1998	LOOK X	52	52	.06910	2005 R	1961
6	1998	LOOK X	51	51	.06910	2005 R	1962
6	1998	LOOK X	51	51	.06910	2005 R	1963
6	1998	LOOK X	51	51	.06910	2005 R	1964
6	1998	LOOK X	51	51	.06910	2005 R	1965
6	1998	LOOK X	51	51	.06910	2005 R	1966
6	1998	LOOK X	52	52	.06910	2005 R	1967
6	1998	LOOK X	51	51	.06910	2005 R	1968
6	1998	LOOK X	51	51	.06910	2005 R	1969
6	1998	LOOK X	51	51	.06910	2005 R	1970
6	1998	LOOK X	51	51	.06910	2005 R	1971
6	1998	LOOK X	51	51	.06910	2005 R	1972
6	1998	LOOK X	52	52	.06910	2005 R	1973
6	1998	LOOK X	51	51	.06910	2005 R	1974
6	1998	LOOK X	51	51	.06910	2005 R	1975
6	1998	LOOK X	51	51	.06910	2005 R	1976
6	1998	LOOK X	51	51	.06910	2005 R	1977
6	1998	LOOK X	51	51	.06910	2005 R	1978
6	1998	LOOK X	52	52	.06910	2005 R	1979
6	1998	LOOK X	51	51	.06910	2005 R	1980
6	1998	LOOK X	51	51	.06910	2005 R	1981
6	1998	LOOK X	51	51	.06910	2005 R	1982

6	1998	LOOK X	51	51	.06910	2005 R	1983
6	1998	LOOK X	185	0	.10750	2005 R	1984
6	1998	LOOK X	52	52	.06910	2005	1985
6	1998	LOOK X	42	42	.06910	2005	1986
6	1998	LOOK X	12	0	.08875	2005 R	1987
6	1998	LOOK X	9	9	.06910	2005	1987
6	1998	LOOK X	46	0	.08500	2005	1988
6	1998	LOOK X	17	0	.08500	2005 R	1988
6	1998	LOOK X	23	0	.09250	2005 R	1989
6	1998	LOOK X	147	0	.08875	2005 R	1990
6	1998	LOOK X	4	0	.08875	2005	1990
6	1998	LOOK X	6	0	.08750	2005 R	1991
6	1998	LOOK X	50	0	.08750	2005	1991
6	1998	LOOK X	181	0	.08500	2005 R	1992
6	1998	LOOK X	4	0	.08500	2005	1992
6	1998	LOOK X	18	0	.07875	2005 R	1993
6	1998	LOOK X	189	0	.07875	2005	1993
6	1998	LOOK X	73	0	.07125	2019 A	1994
6	1998	LOOK X	9	0	.07860	2045	1995
6	1998	LOOK X	15	0	.07860	2045	1995
6	1998	LOOK X	31	0	.07860	2045	1995
6	1998	LOOK X	33	33	.07150	2045	1995
6	1998	LOOK X	80	39	.07150	2045	1995
6	1998	LOOK X	157	0	.07860	2045	1995
6	1998	LOST X	13505	13413	.07150	2027	1977
6	1998	LOST X	58	58	.07150	2027 R	1978
6	1998	LOST X	60	60	.07150	2027 R	1979
6	1998	LOST X	60	60	.07150	2027 R	1980
6	1998	LOST X	60	60	.07150	2027 R	1981
6	1998	LOST X	60	60	.07150	2027 R	1982
6	1998	LOST X	60	60	.07150	2027 R	1983
6	1998	LOST X	243	0	.10750	2027 R	1984
6	1998	LOST X	12	12	.07150	2027	1985
6	1998	LOST X	5	0	.11375	2027 R	1986
6	1998	LOST X	6	6	.07150	2027	1986
6	1998	LOST X	3	0	.08875	2027 R	1987
6	1998	LOST X	4	4	.07150	2027	1987
6	1998	LOST X	7	0	.08500	2027	1988
6	1998	LOST X	9	0	.09250	2027 R	1989
6	1998	LOST X	1	0	.08875	2027	1990
6	1998	LOST X	31	0	.08750	2027	1991
6	1998	LOST X	1	0	.08500	2027 R	1992
6	1998	LOST X	1	0	.08500	2027	1992
6	1998	LOST X	1	0	.07875	2027 R	1993
6	1998	LOST X	14	0	.07875	2027	1993
6	1998	LOST X	4	0	.07330	2000	1995
6	1998	LOST X	94	94	.07150	2045	1995
6	1998	LOST X	24	24	.07150	2046	1996
6	1998	LOST X	31	31	.07150	2031	1996
6	1998	LOWG X	119237	117645	.07160	2025	1975
6	1998	LOWG X	510	510	.07160	2025 R	1976
6	1998	LOWG X	510	510	.07160	2025 R	1977
6	1998	LOWG X	40611	40611	.07150	2028 A	1978

6	1998	LOWG X	510	510	.07160	2025 R	1978
6	1998	LOWG X	510	510	.07160	2025 R	1979
6	1998	LOWG X	510	510	.07160	2025 R	1980
6	1998	LOWG X	510	510	.07160	2025 R	1981
6	1998	LOWG X	510	510	.07160	2025 R	1982
6	1998	LOWG X	510	510	.07160	2025 R	1983
6	1998	LOWG X	311	0	.10750	2025 R	1984
6	1998	LOWG X	328	328	.07160	2025	1985
6	1998	LOWG X	4	0	.11375	2025 R	1986
6	1998	LOWG X	215	215	.07160	2025	1986
6	1998	LOWG X	60	0	.08875	2025 R	1987
6	1998	LOWG X	8	8	.07160	2025	1987
6	1998	LOWG X	22	0	.08500	2025	1988
6	1998	LOWG X	95	0	.08500	2025 R	1988
6	1998	LOWG X	112	0	.09250	2025 R	1989
6	1998	LOWG X	392	0	.08875	2025 R	1990
6	1998	LOWG X	281	0	.08750	2025 R	1991
6	1998	LOWG X	6	0	.08750	2025	1991
6	1998	LOWG X	83	0	.08500	2025 R	1992
6	1998	LOWG X	121	0	.08500	2025	1992
6	1998	LOWG X	26	0	.07875	2025 R	1993
6	1998	LOWG X	3272	0	.07875	2025	1993
6	1998	LOWG X	38	0	.07125	2019 R	1994
6	1998	LOWG X	3543	1551	.07150	2029 A	1994
6	1998	LOWG X	77	77	.07290	2017 R	1995
6	1998	LOWG X	96	96	.07160	2025	1995
6	1998	LOWG X	388	388	.07290	2017	1995
6	1998	LOWG X	458	458	.07290	2017	1995
6	1998	LOWG X	9	9	.07150	2046 R	1996
6	1998	LOWG X	206	206	.07150	2031	1996
6	1998	LOWG X	255	255	.07130	2011	1996
6	1998	LOWG X	625	625	.07150	2046	1996
6	1998	LOWG X	677	677	.07150	2047	1997
6	1998	LOWM X	26974	25083	.07270	2019	1969
6	1998	LOWM X	51218	51218	.07250	2020	1970
6	1998	LOWM X	214	214	.07250	2020 R	1971
6	1998	LOWM X	214	214	.07250	2020 R	1972
6	1998	LOWM X	214	214	.07250	2020 R	1973
6	1998	LOWM X	214	214	.07250	2020 R	1974
6	1998	LOWM X	214	214	.07250	2020 R	1975
6	1998	LOWM X	214	214	.07250	2020 R	1976
6	1998	LOWM X	214	214	.07250	2020 R	1977
6	1998	LOWM X	214	214	.07250	2020 R	1978
6	1998	LOWM X	40669	40669	.07150	2029 A	1979
6	1998	LOWM X	214	214	.07250	2020 R	1979
6	1998	LOWM X	214	214	.07250	2020 R	1980
6	1998	LOWM X	214	214	.07250	2020 R	1981
6	1998	LOWM X	214	214	.07250	2020 R	1982
6	1998	LOWM X	214	214	.07250	2020 R	1983
6	1998	LOWM X	256	256	.07150	2029 A	1985
6	1998	LOWM X	8	8	.07250	2020	1985
6	1998	LOWM X	132	132	.07250	2020	1986
6	1998	LOWM X	50	0	.08875	2020 R	1987

6	1998	LOWM X	3	3	.07250	2020	1987
6	1998	LOWM X	1	0	.08500	2020	1988
6	1998	LOWM X	58	0	.08500	2020 R	1988
6	1998	LOWM X	93	0	.09250	2020 R	1989
6	1998	LOWM X	358	0	.08875	2020 R	1990
6	1998	LOWM X	594	0	.08750	2020	1991
6	1998	LOWM X	4484	0	.08500	2020	1992
6	1998	LOWM X	24	0	.07875	2020 R	1993
6	1998	LOWM X	2175	0	.07875	2020	1993
6	1998	LOWM X	107	0	.07125	2019 R	1994
6	1998	LOWM X	2167	0	.07125	2029 A	1994
6	1998	LOWM X	6	0	.07330	2000	1995
6	1998	LOWM X	41	41	.07150	2045	1995
6	1998	LOWM X	99	99	.07150	2045	1995
6	1998	LOWM X	624	624	.07150	2045	1995
6	1998	LOWM X	1122	1122	.07150	2045 R	1995
6	1998	LOWM X	10	10	.07150	2046	1996
6	1998	LOWM X	37	37	.07230	2021	1996
6	1998	LOWM X	51	51	.07230	2021	1996
6	1998	LOWM X	264	264	.07150	2036 R	1996
6	1998	LOWM X	668	668	.07290	2016	1996
6	1998	LSFW X	30983	9967	.07150	2033	1983
6	1998	LSFW X	47921	47921	.07150	2035	1985
6	1998	LSFW X	72536	72536	.07150	2037	1987
6	1998	LSFW X	805	805	.07150	2038	1988
6	1998	LSFW X	1557	1557	.07150	2040	1990
6	1998	LSFW X	4411	4411	.07150	2041	1991
6	1998	LSFW X	71632	71632	.07150	2043	1993
6	1998	LSFW X	4619	4619	.07150	2044	1994
6	1998	LSFW X	2162	2162	.07150	2045	1995
6	1998	LSFW X	10185	10185	.07150	2046	1996
6	1998	LSFW X	2173	2173	.07150	2047	1997
6	1998	MCNA X	80256	35757	.06880	2004	1954
6	1998	MCNA X	53493	53493	.06910	2005	1955
6	1998	MCNA X	38748	38748	.06950	2006	1956
6	1998	MCNA X	24985	24985	.06980	2007	1957
6	1998	MCNA X	468	468	.06980	2007 R	1958
6	1998	MCNA X	468	468	.06980	2007 R	1959
6	1998	MCNA X	468	468	.06980	2007 R	1960
6	1998	MCNA X	468	468	.06980	2007 R	1961
6	1998	MCNA X	467	467	.06980	2007 R	1962
6	1998	MCNA X	468	468	.06980	2007 R	1963
6	1998	MCNA X	468	468	.06980	2007 R	1964
6	1998	MCNA X	468	468	.06980	2007 R	1965
6	1998	MCNA X	468	468	.06980	2007 R	1966
6	1998	MCNA X	467	467	.06980	2007 R	1967
6	1998	MCNA X	468	468	.06980	2007 R	1968
6	1998	MCNA X	468	468	.06980	2007 R	1969
6	1998	MCNA X	468	468	.06980	2007 R	1970
6	1998	MCNA X	468	468	.06980	2007 R	1971
6	1998	MCNA X	468	468	.06980	2007 R	1972
6	1998	MCNA X	467	467	.06980	2007 R	1973
6	1998	MCNA X	468	468	.06980	2007 R	1974

6	1998	MCNA X	468	468	.06980	2007 R	1975
6	1998	MCNA X	468	468	.06980	2007 R	1976
6	1998	MCNA X	467	467	.06980	2007 R	1977
6	1998	MCNA X	468	468	.06980	2007 R	1978
6	1998	MCNA X	468	468	.06980	2007 R	1979
6	1998	MCNA X	468	468	.06980	2007 R	1980
6	1998	MCNA X	468	468	.06980	2007 R	1981
6	1998	MCNA X	467	467	.06980	2007 R	1982
6	1998	MCNA X	468	468	.06980	2007 R	1983
6	1998	MCNA X	557	557	.06980	2007	1985
6	1998	MCNA X	454	454	.06980	2007	1986
6	1998	MCNA X	35	0	.08875	2007 R	1987
6	1998	MCNA X	24	24	.06980	2007	1987
6	1998	MCNA X	20	0	.08500	2007	1988
6	1998	MCNA X	50	0	.08500	2007 R	1988
6	1998	MCNA X	130	0	.09250	2007 R	1989
6	1998	MCNA X	2228	0	.08875	2007 R	1990
6	1998	MCNA X	14	0	.08875	2007	1990
6	1998	MCNA X	66	0	.08750	2007 R	1991
6	1998	MCNA X	76	0	.08750	2007	1991
6	1998	MCNA X	222	0	.08500	2007 R	1992
6	1998	MCNA X	125	0	.08500	2007	1992
6	1998	MCNA X	34	0	.07875	2007 R	1993
6	1998	MCNA X	1462	0	.07875	2007	1993
6	1998	MCNA X	1521	0	.07125	2029 A	1994
6	1998	MCNA X	68	0	.07125	2019 R	1994
6	1998	MCNA X	16	16	.07150	2045	1995
6	1998	MCNA X	509	509	.07090	2010	1995
6	1998	MCNA X	3	3	.07130	2011	1996
6	1998	MCNA X	74	74	.07150	2026	1996
6	1998	MCNA X	277	277	.07150	2026	1996
6	1998	MCNA X	619	619	.07150	2046	1996
6	1998	MCNA X	778	778	.06950	2006	1996
6	1998	MCNA X	30	30	.07150	2032	1997
6	1998	MINI X	854	0	.03000	1959	1909
6	1998	MINI X	226	0	.03000	1959	1909
6	1998	MINI X	1709	0	.03000	1960	1910
6	1998	MINI X	451	0	.03000	1960	1910
6	1998	MINI X	1709	0	.03000	1961	1911
6	1998	MINI X	451	0	.03000	1961	1911
6	1998	MINI X	854	0	.03000	1977	1927
6	1998	MINI X	226	0	.03000	1977	1927
6	1998	MINI X	854	0	.03000	1992	1942
6	1998	MINI X	226	0	.03000	1992	1942
6	1998	MINI X	2561	0	.03000	2007	1957
6	1998	MINI X	677	0	.03000	2007	1957
6	1998	MINI X	854	0	.03000	2008	1958
6	1998	MINI X	226	0	.03000	2008	1958
6	1998	MINI X	108	0	.03000	2008 R	1959
6	1998	MINI X	28	0	.03000	2008 R	1959
6	1998	MINI X	108	0	.03000	2008 R	1960
6	1998	MINI X	29	0	.03000	2008 R	1960
6	1998	MINI X	108	0	.03000	2008 R	1961

6	1998	MINI X	29	0	.03000	2008 R	1961
6	1998	MINI X	108	0	.03000	2008 R	1962
6	1998	MINI X	28	0	.03000	2008 R	1962
6	1998	MINI X	108	0	.03000	2008 R	1963
6	1998	MINI X	29	0	.03000	2008 R	1963
6	1998	MINI X	108	0	.03000	2008 R	1964
6	1998	MINI X	28	0	.03000	2008 R	1964
6	1998	MINI X	108	0	.03000	2008 R	1965
6	1998	MINI X	29	0	.03000	2008 R	1965
6	1998	MINI X	108	0	.03000	2008 R	1966
6	1998	MINI X	29	0	.03000	2008 R	1966
6	1998	MINI X	108	0	.03000	2008 R	1967
6	1998	MINI X	28	0	.03000	2008 R	1967
6	1998	MINI X	108	0	.03000	2008 R	1968
6	1998	MINI X	29	0	.03000	2008 R	1968
6	1998	MINI X	3	0	.03000	2008 R	1969
6	1998	MINI X	28	0	.03000	2008 R	1969
6	1998	MINI X	108	0	.03000	2008 R	1970
6	1998	MINI X	29	0	.03000	2008 R	1970
6	1998	MINI X	108	0	.03000	2008 R	1971
6	1998	MINI X	29	0	.03000	2008 R	1971
6	1998	MINI X	108	0	.03000	2008 R	1972
6	1998	MINI X	28	0	.03000	2008 R	1972
6	1998	MINI X	108	0	.03000	2008 R	1973
6	1998	MINI X	29	0	.03000	2008 R	1973
6	1998	MINI X	108	0	.03000	2008 R	1974
6	1998	MINI X	28	0	.03000	2008 R	1974
6	1998	MINI X	108	0	.03000	2008 R	1975
6	1998	MINI X	29	0	.03000	2008 R	1975
6	1998	MINI X	108	0	.03000	2008 R	1976
6	1998	MINI X	29	0	.03000	2008 R	1976
6	1998	MINI X	83	56	.07020	2008 R	1977
6	1998	MINI X	28	0	.07020	2008 R	1977
6	1998	MINI X	75	75	.07020	2008 R	1978
6	1998	MINI X	20	20	.07020	2008 R	1978
6	1998	MINI X	75	75	.07020	2008 R	1979
6	1998	MINI X	19	19	.07020	2008 R	1979
6	1998	MINI X	75	75	.07020	2008 R	1980
6	1998	MINI X	20	20	.07020	2008 R	1980
6	1998	MINI X	75	75	.07020	2008 R	1981
6	1998	MINI X	20	20	.07020	2008 R	1981
6	1998	MINI X	75	75	.07020	2008 R	1982
6	1998	MINI X	19	19	.07020	2008 R	1982
6	1998	MINI X	65	65	.07020	2008 R	1983
6	1998	MINI X	20	20	.07020	2008 R	1983
6	1998	MINI X	44	0	.10750	2008 R	1984
6	1998	MINI X	11	0	.10750	2008 R	1984
6	1998	MINI X	21	21	.07020	2008	1985
6	1998	MINI X	48	0	.11375	2008 R	1986
6	1998	MINI X	21	21	.07020	2008	1986
6	1998	MINI X	16	16	.07020	2008	1987
6	1998	MINI X	31	0	.08500	2008	1988
6	1998	MINI X	20	0	.09250	2008 R	1989

6	1998	MINI X	33	0	.08875	2008 R	1990
6	1998	MINI X	62	0	.08750	2008 R	1991
6	1998	MINI X	11	0	.08750	2008	1991
6	1998	MINI X	32	0	.08750	2008 R	1991
6	1998	MINI X	6	0	.08500	2008 R	1992
6	1998	MINI X	351	0	.07125	2029	1994
6	1998	MINI X	6	0	.07330	2000	1995
6	1998	MINI X	40	0	.07890	2010 R	1995
6	1998	MINI X	54	54	.07130	2011	1996
6	1998	MINI X	66	66	.06950	2007	1997
6	1998	MINI X	51558	51558	.07150	2047	1997
6	1998	THED X	15908	0	.02500	2007	1957
6	1998	THED X	45837	33988	.07020	2008	1958
6	1998	THED X	40415	40415	.07060	2009	1959
6	1998	THED X	39179	39179	.07090	2010	1960
6	1998	THED X	9492	9492	.07130	2011	1961
6	1998	THED X	56	56	.07130	2011 R	1962
6	1998	THED X	57	57	.07130	2011 R	1963
6	1998	THED X	57	57	.07130	2011 R	1964
6	1998	THED X	56	56	.07130	2011 R	1965
6	1998	THED X	57	57	.07130	2011 R	1966
6	1998	THED X	57	57	.07130	2011 R	1967
6	1998	THED X	56	56	.07130	2011 R	1968
6	1998	THED X	57	57	.07130	2011 R	1969
6	1998	THED X	57	57	.07130	2011 R	1970
6	1998	THED X	56	56	.07130	2011 R	1971
6	1998	THED X	57	57	.07130	2011 R	1972
6	1998	THED X	21983	21983	.07190	2023 A	1973
6	1998	THED X	57	57	.07130	2011 R	1973
6	1998	THED X	7268	7268	.07170	2024 A	1974
6	1998	THED X	56	56	.07130	2011 R	1974
6	1998	THED X	57	57	.07130	2011 R	1975
6	1998	THED X	57	57	.07130	2011 R	1976
6	1998	THED X	56	56	.07130	2011 R	1977
6	1998	THED X	57	57	.07130	2011 R	1978
6	1998	THED X	57	57	.07130	2011 R	1979
6	1998	THED X	56	56	.07130	2011 R	1980
6	1998	THED X	57	57	.07130	2011 R	1981
6	1998	THED X	57	57	.07130	2011 R	1982
6	1998	THED X	56	56	.07130	2011 R	1983
6	1998	THED X	961	0	.10750	2011 R	1984
6	1998	THED X	280	0	.12375	2011 R	1985
6	1998	THED X	95	95	.07130	2011	1985
6	1998	THED X	4	0	.11375	2011 R	1986
6	1998	THED X	95	95	.07130	2011	1986
6	1998	THED X	81	0	.08875	2011 R	1987
6	1998	THED X	1417	1417	.07130	2011	1987
6	1998	THED X	685	0	.08500	2011	1988
6	1998	THED X	1	0	.08500	2011 R	1988
6	1998	THED X	898	0	.09250	2011 R	1989
6	1998	THED X	319	0	.08875	2011 R	1990
6	1998	THED X	745	0	.08875	2011	1990
6	1998	THED X	89	0	.08750	2011 R	1991

6	1998	THED X	2452	0	.08750	2011	1991
6	1998	THED X	57	0	.08500	2011 R	1992
6	1998	THED X	130	0	.08500	2011	1992
6	1998	THED X	2028	0	.07875	2011 R	1993
6	1998	THED X	2929	0	.07875	2011	1993
6	1998	THED X	1425	0	.07125	2029 A	1994
6	1998	THED X	196	196	.07020	2008	1996
6	1998	THED X	457	457	.07130	2011	1996
6	1998	THED X	1991	1991	.07150	2046	1996
6	1998	YAKC X	1068	193	.07210	2022	1956
6	1998	YAKC X	481	216	.07210	2022	1956
6	1998	YAKC X	1	1	.07210	2022 R	1959
6	1998	YAKC X	1	1	.07210	2022 R	1960
6	1998	YAKC X	1	1	.07210	2022 R	1961
6	1998	YAKC X	35	0	.10750	2022 R	1984
6	1998	YAKC X	10	0	.10750	2022 R	1984
6	1998	YAKC X	357	0	.12375	2022 R	1985
6	1998	YAKC X	7	0	.11375	2022 R	1986
6	1998	YAKC X	456	455	.07210	2022	1986
6	1998	YAKC X	126	0	.08875	2022 R	1987
6	1998	YAKC X	18	0	.09250	2022 R	1989
6	1998	YAKC X	40	0	.08875	2022 R	1990
6	1998	YAKC X	109	0	.08750	2022	1991
6	1998	YAKR X	961	533	.07020	2008	1958
6	1998	YAKR X	292	161	.07020	2008	1958
6	1998	YAKR X	17	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.10750	2008 R	1984
6	1998	YAKR X	5	0	.12375	2008 R	1985
6	1998	YAKR X	69	69	.07020	2008	1985
6	1998	YAKR X	6	6	.07020	2008	1986
6	1998	YAKR X	9	0	.08875	2008 R	1987
6	1998	YAKR X	2	2	.07020	2008	1987
6	1998	YAKR X	11	0	.08500	2008	1988
6	1998	YAKR X	17	0	.09250	2008 R	1989
6	1998	YAKR X	76	0	.08750	2008 R	1991

3993273	3102498	908.36050	2668464
		2715584	

890775 = TOTAL FOR 6

6	1998	ZABF X	38	0	.08350	2032	1992	10
6	1998	ZABF X	67	67	.07700	2025	1995	07 05
6	1998	ZABF X	5622	5622	.05900	2003	1996	08 T
6	1998	ZABF X	7400	7400	.06800	2004	1997	01 T
6	1999	ZABF X	11080	11080	.05900	2014	1999	02 T
6	1998	ZACO X	140000	0	.12200	2003	1983	09
6	1998	ZACO X	150000	0	.13050	2004	1984	09
6	1998	ZACO X	-120000	0	.13050	2004	1989	09
6	1998	ZACO X	50000	0	.10150	1990	1985	09 T
6	1998	ZACO X	50000	0	.08150	1996	1986	03 T
6	1998	ZACO X	50000	0	.07800	1991	1986	03 T
6	1998	ZACO X	75000	0	.09300	2007	1987	04
6	1998	ZACO X	-75000	0	.09300	2007	1992	04

6	1998	ZACO X	50000	0	.08350	1992	1987	06	T	
6	1998	ZACO X	90000	0	.09900	2008	1988	04		
6	1998	ZACO X	40000	40000	.08550	2009	1989	07	T	
6	1998	ZACO X	66000	0	.08600	1995	1989	09	T	
6	1998	ZACO X	66000	66000	.08650	2002	1989	09	T	
6	1998	ZACO X	100000	0	.07140	2007	1992	07		
6	1998	ZACO X	-100000	0	.07140	2007	1998	09		
6	1998	ZACO X	80200	0	.05800	1997	1992	07	T	
6	1998	ZACO X	50000	0	.08050	2012	1992	10		
6	1998	ZACO X	50000	0	.07400	2013	1993	02		
6	1998	ZACO X	-50000	0	.07400	2013	1998	09		
6	1998	ZACO X	40000	40000	.06750	2013	1993	08		
6	1998	ZACO X	50000	50000	.06750	2014	1994	01		
6	1998	ZACO X	50000	0	.07100	1998	1994	05	01	P
6	1998	ZACO X	85000	85000	.07500	2015	1995	05	05	
6	1998	ZACO X	30000	30000	.06700	2011	1996	01	05	
6	1998	ZACO X	40000	40000	.07200	2017	1996	11	05	
6	1998	ZACO X	37700	37700	.06000	2009	1998	05	T	
6	1998	ZACO X	52800	52800	.05600	2013	1998	09	T	
6	1998	ZACO X	104300	104300	.05300	2008	1998	09	T	
6	1999	ZACO X	6000	6000	.07470	2019	1999	03		
6	1998	ZADB X	35000	35000	.07500	2015	1995	05	05	
6	1998	ZADB X	50000	50000	.06500	2000	1997	05	T	
6	1998	ZADB X	25000	25000	.06000	2008	1998	04		
6	1999	ZADB X	20000	20000	.06400	2004	1999	09	T	
6	1998	ZAFW X	25000	00	.08950	1999	1989	05	T	
6	1998	ZAFW X	50000	0	.07950	1996	1991	05	T	
6	1998	ZAFW X	20000	20000	.06950	2008	1993	02		
6	1998	ZAFW X	20000	0	.07650	1999	1994	09	01	P
6	1998	ZAFW X	22900	22900	.07200	2010	1995	08	05	
6	1998	ZAFW X	60000	60000	.06100	2013	1998	01		
6	1999	ZAFW X	20000	20000	.06300	2003	1999	09	T	
			1630107	828869						
				34.85000			89687			
					90307					

801238 = TOTAL FOR 6

6	1998	ZIRR X	25143	0	.00000	1997	1997			
6	1998	ZIRR X	16560	16560	.00000	2001	1997			
6	1998	ZIRR X	184	184	.00000	2004	1997			
6	1998	ZIRR X	208	208	.00000	2004	1997			
6	1998	ZIRR X	347	347	.00000	2004	1997			
6	1998	ZIRR X	2950	2950	.00000	2008	1997			
6	1998	ZIRR X	5702	5702	.00000	2009	1997			
6	1998	ZIRR X	2007	2007	.00000	2009	1997			
6	1998	ZIRR X	811	811	.00000	2012	1997			
6	1998	ZIRR X	49796	49796	.00000	2013	1997			
6	1998	ZIRR X	48554	48554	.00000	2014	1997			
6	1998	ZIRR X	54101	54101	.00000	2015	1997			
6	1998	ZIRR X	64264	64264	.00000	2016	1997			
6	1998	ZIRR X	60457	60457	.00000	2017	1997			
6	1998	ZIRR X	1071	1071	.00000	2017	1997			
6	1998	ZIRR X	718	718	.00000	2017	1997			

6	1998	ZIRR X	24267	24267	.00000	2018	1997
6	1998	ZIRR X	680	680	.00000	2018	1997
6	1998	ZIRR X	513	513	.00000	2018	1997
6	1998	ZIRR X	61343	61343	.00000	2019	1997
6	1998	ZIRR X	1125	1125	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	2079	2079	.00000	2019	1997
6	1998	ZIRR X	375	375	.00000	2019	1997
6	1998	ZIRR X	34108	34108	.00000	2020	1997
6	1998	ZIRR X	2635	2635	.00000	2020	1997
6	1998	ZIRR X	15436	15436	.00000	2021	1997
6	1998	ZIRR X	1390	1390	.00000	2021	1997
6	1998	ZIRR X	15416	15416	.00000	2022	1997
6	1998	ZIRR X	415	415	.00000	2022	1997
6	1998	ZIRR X	9663	9663	.00000	2023	1997
6	1998	ZIRR X	14088	14088	.00000	2024	1997
6	1998	ZIRR X	1943	1943	.00000	2024	1997
6	1998	ZIRR X	5041	5041	.00000	2024	1997
6	1998	ZIRR X	17104	17104	.00000	2025	1997
6	1998	ZIRR X	1184	1184	.00000	2025	1997
6	1998	ZIRR X	3810	3810	.00000	2026	1997
6	1998	ZIRR X	11994	11994	.00000	2026	1997
6	1998	ZIRR X	953	953	.00000	2026	1997
6	1998	ZIRR X	2119	2119	.00000	2026	1997
6	1998	ZIRR X	8171	8171	.00000	2027	1997
6	1998	ZIRR X	14159	14159	.00000	2028	1997
6	1998	ZIRR X	4204	4204	.00000	2028	1997
6	1998	ZIRR X	4092	4092	.00000	2029	1997
6	1998	ZIRR X	2432	2432	.00000	2030	1997
6	1998	ZIRR X	15606	15606	.00000	2031	1997
6	1998	ZIRR X	12038	12038	.00000	2035	1997
6	1998	ZIRR X	3660	3660	.00000	2036	1997
6	1998	ZIRR X	16163	16163	.00000	2036	1997
6	1998	ZIRR X	9986	9986	.00000	2036	1997
6	1998	ZIRR X	4720	4720	.00000	2037	1997
6	1998	ZIRR X	22069	22069	.00000	2037	1997
6	1998	ZIRR X	15619	15619	.00000	2039	1997
6	1998	ZIRR X	73699	73699	.00000	2042	1997
6	1998	ZIRR X	26329	26329	.00000	2045	1997
			795580	770437			
					.00000		109835
							111197

25143 = TOTAL FOR 6

PROJECTED FEDERAL INVESTMENTS

			ORIGINAL	CURRENT	INTEREST	DUE	INSERVICE	CALENDAR
	PROJECT		PRINCIPAL	PRINCIPAL	RATE	DATE	DATE	MONTH
6	2000	BONN X	23476	23476	.06125	2050	2000	
6	2000	COLU X	1185	1185	.06125	2050	2000	
6	2000	COLU X	817	817	.06125	2050	2000	

6	2000	CRFB X	4541	4541	.06125	2050	2000
6	2000	ICEH X	696	696	.06125	2050	2000
6	2000	JOHN X	17643	17643	.06125	2050	2000
6	2000	LOWG X	1261	1261	.06125	2050	2000
6	2000	LOWM X	521	521	.06125	2050	2000
6	2000	MCNA X	937	937	.06125	2050	2000
6	2000	MINI X	81	81	.06520	2010	2000
6	2001	BOIS X	27	27	.06190	2011	2001
6	2001	BOIS X	4	4	.06190	2011	2001
6	2001	BONN X	17820	17820	.06390	2051	2001
6	2001	COLU X	3557	3557	.06390	2051	2001
6	2001	COLU X	1163	1163	.06390	2051	2001
6	2001	CRFB X	457474	457474	.06180	2051	2001
6	2001	LSFW X	7649	7649	.05990	2051	2001
6	2001	MINI X	80	80	.06190	2011	2001
6	2001	THED X	12528	12528	.06390	2051	2001
6	2002	BOIS X	27	27	.05940	2012	2002
6	2002	BONN X	8910	8910	.06180	2052	2002
6	2002	COLU X	507	507	.06120	2027	2002
6	2002	COLU X	1162	1162	.06180	2052	2002
6	2002	CRFB X	111042	111042	.06180	2052	2002
6	2002	LSFW X	794	794	.06180	2052	2002
6	2002	MINI X	80	80	.05940	2012	2002
6	2002	THED X	12528	12528	.06180	2052	2002
6	2003	BOIS X	27	27	.05750	2013	2003
6	2003	BONN X	22216	22216	.05990	2053	2003
6	2003	COLU X	507	507	.05930	2028	2003
6	2003	COLU X	1161	1161	.05990	2053	2003
6	2003	CRFB X	44682	44682	.05990	2053	2003
6	2003	MINI X	80	80	.05750	2013	2003
6	2003	THED X	12528	12528	.05990	2053	2003
6	2004	BOIS X	27	27	.05730	2014	2004
6	2004	COLU X	507	507	.05930	2029	2004
6	2004	COLU X	1162	1162	.06000	2054	2004
6	2004	CRFB X	213203	213203	.06000	2054	2004
6	2004	MCNA X	7000	7000	.06000	2054	2004
6	2004	MINI X	80	80	.05730	2014	2004
6	2004	THED X	12528	12528	.06000	2054	2004
6	2005	BOIS X	27	27	.05670	2015	2005
6	2005	COLU X	507	507	.05910	2030	2005
6	2005	COLU X	1162	1162	.05980	2055	2005
6	2005	CRFB X	91203	91203	.05980	2055	2005
6	2005	MCNA X	17000	17000	.05980	2055	2005
6	2005	MINI X	80	80	.05670	2015	2005
6	2005	THED X	12528	12528	.05980	2055	2005
6	2006	BOIS X	27	27	.05610	2016	2006
6	2006	COLU X	507	507	.05860	2031	2006
6	2006	COLU X	1162	1162	.05950	2056	2006
6	2006	CRFB X	125913	125913	.05950	2056	2006
6	2006	MCNA X	17000	17000	.05950	2056	2006
6	2006	MINI X	80	80	.05610	2016	2006
6	2006	THED X	12528	12528	.05950	2056	2006
			1281942	1281942			

0 = TOTAL FOR 6

33.16750 110151
112216

6	2000	ZABF X	4100	4100	.07540	2045	2000	03
6	2000	ZACO X	32555	32555	.07400	2020	2000	03
6	2000	ZADB X	95369	95369	.07540	2045	2000	03
6	2000	ZAFW X	27000	27000	.07240	2015	2000	03
6	2001	ZABF X	7600	7600	.07290	2046	2001	03
6	2001	ZACO X	1000	1000	.07110	2021	2001	03
6	2001	ZADB X	76100	76100	.07290	2046	2001	03
6	2001	ZAFW X	27000	27000	.06920	2016	2001	03
6	2002	ZABF X	2100	2100	.07080	2047	2002	03
6	2002	ZADB X	89855	89855	.07080	2047	2002	03
6	2002	ZAFW X	34732	34732	.06690	2017	2002	03
6	2003	ZABF X	1400	1400	.06890	2048	2003	03
6	2003	ZADB X	86650	86650	.06890	2048	2003	03
6	2003	ZAFW X	38317	38317	.06500	2018	2003	03
6	2004	ZABF X	1400	1400	.06900	2049	2004	03
6	2004	ZADB X	61700	61700	.06900	2049	2004	03
6	2004	ZAFW X	35825	35825	.06480	2019	2004	03
6	2005	ZABF X	1400	1400	.06880	2050	2005	03
6	2005	ZADB X	62100	62100	.06880	2050	2005	03
6	2005	ZAFW X	33988	33988	.06440	2020	2005	03
6	2006	ZABF X	1400	1400	.06850	2051	2006	03
6	2006	ZADB X	62100	62100	.06850	2051	2006	03
6	2006	ZAFW X	34182	34182	.06380	2021	2006	03
			817873	817873				
				16.00200			46064	
				46839				

0 = TOTAL FOR 6

CHAPTER 10

**REPAYMENT STUDY RESULTS
CURRENT STUDY
FY 2006**

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**Summary of Interest Calculations
Generation
FY 2006 Current Repayment Study**

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INTEREST CALCULATION FOR FY 2000

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	20,168	X .06943 =	1,407		1,407
BOISE	HISTORICAL	3,495	X .07138 =	249		249
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X .07150 =	26,227		26,227
BONNEVILLE	HISTORICAL	51,134	X .06082 =	3,111		3,111
	NEW 2/	23,476	X .03063 =	719		719
CHIEF JOSEPH	HISTORICAL	301,681	X .07101 =	21,428		21,428
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X .07151 =	32,564		32,564
COLUMBIA BASIN	HISTORICAL	27,561	X .06844 =	1,869		1,869
	NEW 2/	2,002	X .03063 =	61		61
COUGAR	HISTORICAL	9,597	X .07230 =	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	63,749	X .06558 =	4,181		4,181
	NEW 2/	4,541	X .03063 =	139		139
DETROIT-BIG CLIFF	HISTORICAL	23,847	X .06875 =	1,632		1,632
DWORSHAK	HISTORICAL	149,901	X .07188 =	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	24,767	X .07285 =	1,807		1,807
HILLS CREEK	HISTORICAL	9,570	X .07160 =	686		686
HUNGRY HORSE	HISTORICAL	25,760	X .06938 =	1,780		1,780
ICE HARBOR	HISTORICAL	68,376	X .07159 =	4,888		4,888
	NEW 2/	696	X .03063 =	21		21
JOHN DAY	HISTORICAL	208,624	X .07251 =	15,129		15,129
	NEW 2/	17,643	X .03063 =	540		540
LIBBY	HISTORICAL	228,804	X .07152 =	16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X .07197 =	8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	30,025	X .06911 =	2,089		2,089
LOST CREEK	HISTORICAL	13,942	X .07150 =	995		995

LOWER GRANITE	HISTORICAL	167,229	X	.07158	=	11,974	
	NEW 2/	1,261	X	.03063	=	39	12,013
LOWER MONUMENTAL	HISTORICAL	123,067	X	.07219	=	8,893	
	NEW 2/	521	X	.03063	=	16	8,909
LOWER SNAKE F AND W	HISTORICAL	227,968	X	.07150	=	16,299	16,299
MCNARY	HISTORICAL	168,487	X	.06931	=	11,686	
	NEW 2/	937	X	.03063	=	29	11,715
MINIDOKA	HISTORICAL	52,350	X	.07148	=	3,738	
	NEW 2/	81	X	.03260	=	3	3,741
THE DALLES	HISTORICAL	157,822	X	.07089	=	11,188	11,188
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63	63
YAKIMA-ROZA	HISTORICAL	771	X	.07020	=	53	53
BPA PROGRAM	HISTORICAL	24,169	X	.06181	=	1,494	4
	NEW 2/	4,100	X	.03770	=	155	1,653
BPA CONSERVATION	HISTORICAL	551,800	X	.06826	=	37,664	
	NEW 2/	32,555	X	.03700	=	1,205	38,869
BUREAU DIRECT FUND	HISTORICAL	130,000	X	.06658	=	8,655	
	NEW 2/	95,369	X	.03770	=	3,595	12,250
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	122,900	X	.06476	=	7,959	
	NEW 2/	27,000	X	.03620	=	977	8,936
IRRIGATION ASSISTANCE	HISTORICAL	770,437	X	.00000	=	0	0

							283,720
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-11,449
	(1,010,505 - 0 - 647,803 - 27,887) X .03419						-----
NET							272,271

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2001

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	20,038	X	.06941	=	1,398		1,398
BOISE	HISTORICAL	3,495	X	.07138	=	249		250
	NEW 2/	31	X	.03095	=	1		
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	73,776	X	.06082	=	4,488		5,057
	NEW 2/	17,820	X	.03195	=	569		
CHIEF JOSEPH	HISTORICAL	301,681	X	.07101	=	21,428		21,428
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	28,780	X	.06782	=	1,935		2,086
	NEW 2/	4,720	X	.03195	=	151		
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	68,290	X	.06529	=	4,459		18,595
	NEW 2/	457,474	X	.03090	=	14,136		
DETROIT-BIG CLIFF	HISTORICAL	23,847	X	.06875	=	1,632		1,632
DWORSHAK	HISTORICAL	149,901	X	.07188	=	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	10,589	X	.07280	=	771		771
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
HUNGRY HORSE	HISTORICAL	25,670	X	.06939	=	1,774		1,774
ICE HARBOR	HISTORICAL	69,072	X	.07148	=	4,931		4,931
JOHN DAY	HISTORICAL	203,509	X	.07150	=	14,553		14,553
LIBBY	HISTORICAL	228,804	X	.07152	=	16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	=	8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	30,025	X	.06911	=	2,089		2,089
LOST CREEK	HISTORICAL	13,942	X	.07150	=	995		

									995
LOWER GRANITE		HISTORICAL	167,567	X	.07150	=	11,984		11,984
LOWER MONUMENTAL		HISTORICAL	122,920	X	.07214	=	8,876		8,876
LOWER SNAKE F AND W		HISTORICAL	227,968	X	.07150	=	16,299		16,528
		NEW 2/	7,649	X	.02995	=	229		
MCNARY		HISTORICAL	169,424	X	.06926	=	11,743		11,743
MINIDOKA		HISTORICAL	52,431	X	.07147	=	3,743		3,745
		NEW 2/	80	X	.03095	=	2		
THE DALLES		HISTORICAL	157,822	X	.07089	=	11,188		11,588
		NEW 2/	12,528	X	.03195	=	400		
YAKIMA-CHANDLER		HISTORICAL	867	X	.07210	=	63		63
YAKIMA-ROZA		HISTORICAL	771	X	.07020	=	53		53
BPA PROGRAM		HISTORICAL	28,202	X	.06375	=	1,798		2,075
		NEW 2/	7,600	X	.03645	=	277		
BPA CONSERVATION		HISTORICAL	584,355	X	.06858	=	40,073		40,109
		NEW 2/	1,000	X	.03555	=	36		
BUREAU DIRECT FUND		HISTORICAL	175,369	X	.07182	=	12,596		15,370
		NEW 2/	76,100	X	.03645	=	2,774		
FISH, WILDLIFE & ENVIRONMENTAL		HISTORICAL	149,900	X	.06613	=	9,914		10,848
		NEW 2/	27,000	X	.03460	=	934		
IRRIGATION ASSISTANCE		HISTORICAL	770,437	X	.00000	=	0		0

									304,527
AFUDC									0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5								-11,311
	(1,004,996 - 0 - 641,433 - 32,191) X .03413								-----
NET									293,216

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2002

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	20,038	X	.06941	=	1,398		1,398
BOISE	HISTORICAL	3,437	X	.07140	=	245		245
	NEW 2/	27	X	.02970	=	1		1
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	91,596	X	.06142	=	5,627		5,627
	NEW 2/	8,910	X	.03090	=	275		275
CHIEF JOSEPH	HISTORICAL	301,681	X	.07101	=	21,428		21,428
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	14,115	X	.06750	=	952		952
	NEW 2/	1,669	X	.03081	=	52		52
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	525,764	X	.06225	=	32,731		32,731
	NEW 2/	111,042	X	.03090	=	3,431		3,431
DETROIT-BIG CLIFF	HISTORICAL	23,847	X	.06875	=	1,632		1,632
DWORSHAK	HISTORICAL	149,901	X	.07188	=	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	=	5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
HUNGRY HORSE	HISTORICAL	25,670	X	.06939	=	1,774		1,774
ICE HARBOR	HISTORICAL	67,968	X	.07146	=	4,851		4,851
JOHN DAY	HISTORICAL	203,509	X	.07150	=	14,553		14,553
LIBBY	HISTORICAL	228,804	X	.07152	=	16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	=	8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	30,025	X	.06911	=	2,089		2,089
LOST CREEK	HISTORICAL	13,942	X	.07150	=	995		995

									995
LOWER GRANITE	HISTORICAL	167,567	X	.07150	=	11,984			11,984
LOWER MONUMENTAL	HISTORICAL	100,239	X	.07202	=	7,227			7,227
LOWER SNAKE F AND W	HISTORICAL	235,617	X	.07112	=	16,757			16,782
	NEW 2/	794	X	.03090	=	25			
MCNARY	HISTORICAL	169,424	X	.06926	=	11,743			11,743
MINIDOKA	HISTORICAL	52,511	X	.07146	=	3,748			3,750
	NEW 2/	80	X	.02970	=	2			
THE DALLES	HISTORICAL	170,350	X	.07037	=	11,989			12,376
	NEW 2/	12,528	X	.03090	=	387			
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63			63
YAKIMA-ROZA	HISTORICAL	771	X	.07020	=	53			53
BPA PROGRAM	HISTORICAL	35,802	X	.06569	=	2,352			2,426
	NEW 2/	2,100	X	.03540	=	74			
BPA CONSERVATION	HISTORICAL	585,355	X	.06858	=	40,144			40,144
BUREAU DIRECT FUND	HISTORICAL	251,469	X	.07215	=	18,144			21,325
	NEW 2/	89,855	X	.03540	=	3,181			
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	176,900	X	.06660	=	11,782			12,944
	NEW 2/	34,732	X	.03345	=	1,162			
IRRIGATION ASSISTANCE	HISTORICAL	753,877	X	.00000	=	0			0

									328,842
AFUDC									0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5								-13,367
	(990,129 - 0 - 567,253 - 36,212) X .03457								-----
NET									315,475

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2003

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	20,038	X	.06941	=	1,398		1,398
BOISE	HISTORICAL	3,464	X	.07131	=	247		
	NEW 2/	27	X	.02875	=	1		248
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	100,506	X	.06146	=	6,178		
	NEW 2/	22,216	X	.02995	=	665		6,843
CHIEF JOSEPH	HISTORICAL	301,681	X	.07101	=	21,428		21,428
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	15,784	X	.06688	=	1,055		
	NEW 2/	1,668	X	.02986	=	50		1,105
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	636,806	X	.06217	=	39,593		
	NEW 2/	44,682	X	.02995	=	1,338		40,931
DETROIT-BIG CLIFF	HISTORICAL	23,847	X	.06875	=	1,632		1,632
DWORSHAK	HISTORICAL	149,901	X	.07188	=	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	=	5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
HUNGRY HORSE	HISTORICAL	25,670	X	.06939	=	1,774		1,774
ICE HARBOR	HISTORICAL	67,968	X	.07146	=	4,851		4,851
JOHN DAY	HISTORICAL	164,510	X	.07121	=	11,718		11,718
LIBBY	HISTORICAL	228,804	X	.07152	=	16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	=	8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	30,025	X	.06911	=	2,089		2,089
LOST CREEK	HISTORICAL	13,942	X	.07150	=	995		995

LOWER GRANITE	HISTORICAL	167,567	X	.07150	=	11,984	
							11,984
LOWER MONUMENTAL	HISTORICAL	97,837	X	.07200	=	7,052	
							7,052
LOWER SNAKE F AND W	HISTORICAL	236,411	X	.07109	=	16,806	
							16,806
MCNARY	HISTORICAL	169,424	X	.06926	=	11,743	
							11,743
MINIDOKA	HISTORICAL	52,591	X	.07144	=	3,753	
	NEW 2/	80	X	.02875	=	2	
							3,755
THE DALLES	HISTORICAL	182,878	X	.06979	=	12,763	
	NEW 2/	12,528	X	.02995	=	375	
							13,138
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63	
							63
YAKIMA-ROZA	HISTORICAL	771	X	.07020	=	53	
							53
BPA PROGRAM	HISTORICAL	37,902	X	.06597	=	2,501	
	NEW 2/	1,400	X	.03445	=	48	
							2,549
BPA CONSERVATION	HISTORICAL	519,355	X	.06630	=	34,435	
							34,435
BUREAU DIRECT FUND	HISTORICAL	341,324	X	.07179	=	24,506	
	NEW 2/	86,650	X	.03445	=	2,985	
							27,491
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	211,632	X	.06665	=	14,106	
	NEW 2/	38,317	X	.03250	=	1,245	
							15,351
IRRIGATION ASSISTANCE	HISTORICAL	753,877	X	.00000	=	0	
							0

							335,423
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-12,414
	(1,002,995 - 0 - 607,002 - 37,775) X .03466						-----
NET							323,009

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2004

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

+ PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	20,038	X	.06941	=	1,398		1,398
BOISE	HISTORICAL	3,491	X	.07120	=	249		
	NEW 2/	27	X	.02865	=	1		250
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	122,722	X	.06117	=	7,509		7,509
CHIEF JOSEPH	HISTORICAL	301,681	X	.07101	=	21,428		21,428
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	17,452	X	.06620	=	1,155		
	NEW 2/	1,669	X	.02989	=	50		1,205
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	681,488	X	.06203	=	42,269		
	NEW 2/	213,203	X	.03000	=	6,396		48,665
DETROIT-BIG CLIFF	HISTORICAL	20,769	X	.06881	=	1,421		1,421
DWORSHAK	HISTORICAL	149,901	X	.07188	=	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	=	5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
HUNGRY HORSE	HISTORICAL	8,308	X	.07146	=	593		593
ICE HARBOR	HISTORICAL	67,968	X	.07146	=	4,851		4,851
JOHN DAY	HISTORICAL	137,588	X	.07092	=	9,760		9,760
LIBBY	HISTORICAL	228,804	X	.07152	=	16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	=	8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	30,025	X	.06911	=	2,089		2,089
LOST CREEK	HISTORICAL	13,942	X	.07150	=	995		995
LOWER GRANITE	HISTORICAL	167,567	X	.07150	=	11,984		

LOWER MONUMENTAL	HISTORICAL	97,837	X	.07200	=	7,052	11,984
							7,052
LOWER SNAKE F AND W	HISTORICAL	236,411	X	.07109	=	16,806	16,806
MCNARY	HISTORICAL	169,424	X	.06926	=	11,743	
	NEW 2/	7,000	X	.03000	=	210	11,953
MINIDOKA	HISTORICAL	52,671	X	.07142	=	3,758	
	NEW 2/	80	X	.02865	=	2	3,760
THE DALLES	HISTORICAL	195,406	X	.06915	=	13,513	
	NEW 2/	12,528	X	.03000	=	376	13,889
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63	63
YAKIMA-ROZA	HISTORICAL	771	X	.07020	=	53	53
BPA PROGRAM	HISTORICAL	33,680	X	.06726	=	2,265	
	NEW 2/	1,400	X	.03450	=	48	2,313
BPA CONSERVATION	HISTORICAL	519,355	X	.06630	=	34,435	34,435
BUREAU DIRECT FUND	HISTORICAL	427,974	X	.07121	=	30,476	
	NEW 2/	61,700	X	.03450	=	2,129	32,605
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	229,949	X	.06669	=	15,337	
	NEW 2/	35,825	X	.03240	=	1,161	16,498
IRRIGATION ASSISTANCE	HISTORICAL	753,877	X	.00000	=	0	0

							347,566
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-13,187
	(1,022,434 - 0 - 595,031 - 41,257) X .03415						-----
NET							334,379

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2005

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

+ PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	20,038	X	.06941	= 1,398		1,398
BOISE	HISTORICAL	3,518	X	.07110	= 251		
	NEW 2/	27	X	.02835	= 1		252
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	= 26,227		26,227
BONNEVILLE	HISTORICAL	122,722	X	.06117	= 7,509		7,509
CHIEF JOSEPH	HISTORICAL	301,681	X	.07101	= 21,428		21,428
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	= 32,564		32,564
COLUMBIA BASIN	HISTORICAL	19,121	X	.06564	= 1,255		
	NEW 2/	1,669	X	.02979	= 50		1,305
COUGAR	HISTORICAL	9,597	X	.07230	= 686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	894,691	X	.06154	= 55,061		
	NEW 2/	91,203	X	.02990	= 2,727		57,788
DETROIT-BIG CLIFF	HISTORICAL	62	X	.07073	= 5		5
DWORSHAK	HISTORICAL	149,901	X	.07188	= 10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	= 5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	= 686		686
HUNGRY HORSE	HISTORICAL	8,308	X	.07146	= 593		593
ICE HARBOR	HISTORICAL	67,968	X	.07146	= 4,851		4,851
JOHN DAY	HISTORICAL	129,167	X	.07081	= 9,148		9,148
LIBBY	HISTORICAL	228,804	X	.07152	= 16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	= 8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	30,025	X	.06911	= 2,089		2,089
LOST CREEK	HISTORICAL	13,942	X	.07150	= 995		995
LOWER GRANITE	HISTORICAL	167,567	X	.07150	= 11,984		

LOWER MONUMENTAL	HISTORICAL	97,837	X	.07200	=	7,052		11,984
								7,052
LOWER SNAKE F AND W	HISTORICAL	236,411	X	.07109	=	16,806		16,806
MCNARY	HISTORICAL	140,667	X	.06892	=	9,703		
	NEW 2/	17,000	X	.02990	=	508		10,211
MINIDOKA	HISTORICAL	52,751	X	.07140	=	3,763		
	NEW 2/	80	X	.02835	=	2		3,765
THE DALLES	HISTORICAL	207,934	X	.06860	=	14,265		
	NEW 2/	12,528	X	.02990	=	375		14,640
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63		63
YAKIMA-ROZA	HISTORICAL	771	X	.07020	=	53		53
BPA PROGRAM	HISTORICAL	27,680	X	.06715	=	1,859	275	
	NEW 2/	1,400	X	.03440	=	48		2,182
BPA CONSERVATION	HISTORICAL	519,355	X	.06630	=	34,435		34,435
BUREAU DIRECT FUND	HISTORICAL	469,674	X	.07123	=	33,453	1,787	
	NEW 2/	62,100	X	.03440	=	2,136		37,376
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	265,774	X	.06644	=	17,658		
	NEW 2/	33,988	X	.03220	=	1,094		18,752
IRRIGATION ASSISTANCE	HISTORICAL	753,138	X	.00000	=	0		0

								360,671
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-15,371
	(1,035,546 - 0 - 542,149 - 43,703) X .03418							-----
NET								345,300

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2006

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,573	X	.07150	=	184		184
BOISE	HISTORICAL	3,545	X	.07099	=	253		254
	NEW 2/	27	X	.02805	=	1		
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	122,722	X	.06117	=	7,509		7,509
CHIEF JOSEPH	HISTORICAL	293,793	X	.07104	=	20,869		20,869
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	20,790	X	.06515	=	1,354		1,404
	NEW 2/	1,669	X	.02961	=	50		
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	985,894	X	.06138	=	60,515		64,261
	NEW 2/	125,913	X	.02975	=	3,746		
DETROIT-BIG CLIFF	HISTORICAL	62	X	.07073	=	5		5
DWORSHAK	HISTORICAL	149,901	X	.07188	=	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	=	5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
HUNGRY HORSE	HISTORICAL	8,308	X	.07146	=	593		593
ICE HARBOR	HISTORICAL	67,968	X	.07146	=	4,851		4,851
JOHN DAY	HISTORICAL	129,167	X	.07081	=	9,148		9,148
LIBBY	HISTORICAL	228,804	X	.07152	=	16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	=	8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	72	X	.07150	=	5		5
LOST CREEK	HISTORICAL	13,942	X	.07150	=	995		995

LOWER GRANITE	HISTORICAL	167,567	X	.07150	=	11,984	
							11,984
LOWER MONUMENTAL	HISTORICAL	97,837	X	.07200	=	7,052	
							7,052
LOWER SNAKE F AND W	HISTORICAL	236,411	X	.07109	=	16,806	
							16,806
MCNARY	HISTORICAL	104,174	X	.06734	=	7,024	
	NEW 2/	17,000	X	.02975	=	506	
							7,530
MINIDOKA	HISTORICAL	52,159	X	.07139	=	3,725	
	NEW 2/	80	X	.02805	=	2	
							3,727
THE DALLES	HISTORICAL	213,364	X	.06803	=	14,515	
	NEW 2/	12,528	X	.02975	=	373	
							14,888
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63	
							63
BPA PROGRAM	HISTORICAL	24,980	X	.06589	=	1,646	
	NEW 2/	1,400	X	.03425	=	48	
							1,694
BPA CONSERVATION	HISTORICAL	519,355	X	.06630	=	34,435	
							34,435
BUREAU DIRECT FUND	HISTORICAL	505,117	X	.07071	=	35,715	
	NEW 2/	62,100	X	.03425	=	2,127	
							37,842
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	299,762	X	.06621	=	19,847	
	NEW 2/	34,182	X	.03190	=	1,090	
							20,937
IRRIGATION ASSISTANCE	HISTORICAL	753,138	X	.00000	=	0	

0

363,027

AFUDC

0

INTEREST INCOME	(REVENUE	-	A.O.	-	P.P.	-	BOND INT.)	X	RATE	X	0.5	-14,730
	(1,052,686	-	0	-	575,913	-	45,821)	X	.03418			-----

NET 348,297

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2007

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

+ PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,573	X	.07150	= 184		184
BOISE	HISTORICAL	3,565	X	.07088	= 255		255
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	= 26,227		26,227
BONNEVILLE	HISTORICAL	122,722	X	.06117	= 7,509		7,509
CHIEF JOSEPH	HISTORICAL	248,249	X	.07123	= 17,682		17,682
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	= 32,564		32,564
COLUMBIA BASIN	HISTORICAL	22,459	X	.06471	= 1,453		1,453
COUGAR	HISTORICAL	9,597	X	.07230	= 686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	= 68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	38	X	.07150	= 3		3
DWORSHAK	HISTORICAL	149,901	X	.07188	= 10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	= 5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	= 686		686
HUNGRY HORSE	HISTORICAL	8,308	X	.07146	= 593		593
ICE HARBOR	HISTORICAL	67,968	X	.07146	= 4,851		4,851
JOHN DAY	HISTORICAL	129,167	X	.07081	= 9,148		9,148
LIBBY	HISTORICAL	228,804	X	.07152	= 16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	= 8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	72	X	.07150	= 5		5
LOST CREEK	HISTORICAL	13,942	X	.07150	= 995		995
LOWER GRANITE	HISTORICAL	167,567	X	.07150	= 11,984		11,984
LOWER MONUMENTAL	HISTORICAL	97,837	X	.07200	= 7,052		7,052

LOWER SNAKE F AND W	HISTORICAL	236,411	X	.07109	=	16,806	
							16,806
MCNARY	HISTORICAL	65,359	X	.06338	=	4,142	
							4,142
MINIDOKA	HISTORICAL	52,239	X	.07136	=	3,729	
							3,729
THE DALLES	HISTORICAL	198,806	X	.06720	=	13,359	
							13,359
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63	
							63
BPA PROGRAM	HISTORICAL	26,380	X	.06602	=	1,742	
							1,742
BPA CONSERVATION	HISTORICAL	519,355	X	.06630	=	34,435	
							34,435
BUREAU DIRECT FUND	HISTORICAL	567,217	X	.07047	=	39,969	150
							40,119
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	333,944	X	.06596	=	22,028	93
							22,121
IRRIGATION ASSISTANCE	HISTORICAL	753,138	X	.00000	=	0	
							0

							362,228

AFUDC

0

INTEREST INCOME	(REVENUE	-	A.O.	-	P.P.	-	BOND INT.)	X	RATE	X	0.5	
	(1,050,323	-	0	-	592,412	-	49,086)	X	.03413			-13,955

NET

348,273

- 0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
- P.P. = PURCHASE POWER
- 1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
- 2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2008

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,573	X	.07150	=	184		184
BOISE	HISTORICAL	3,556	X	.07088	=	254		254
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	122,722	X	.06117	=	7,509		7,509
CHIEF JOSEPH	HISTORICAL	208,663	X	.07150	=	14,919		14,919
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	22,459	X	.06471	=	1,453		1,453
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	38	X	.07150	=	3		3
DWORSHAK	HISTORICAL	149,901	X	.07188	=	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	=	5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
HUNGRY HORSE	HISTORICAL	8,154	X	.07150	=	582		582
ICE HARBOR	HISTORICAL	67,968	X	.07146	=	4,851		4,851
JOHN DAY	HISTORICAL	129,167	X	.07081	=	9,148		9,148
LIBBY	HISTORICAL	228,804	X	.07152	=	16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	=	8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	72	X	.07150	=	5		5
LOST CREEK	HISTORICAL	13,942	X	.07150	=	995		995
LOWER GRANITE	HISTORICAL	167,567	X	.07150	=	11,984		11,984
LOWER MONUMENTAL	HISTORICAL	97,837	X	.07200	=	7,052		7,052

LOWER SNAKE F AND W	HISTORICAL	236,411	X	.07109	=	16,806	7,052
MCNARY	HISTORICAL	43,465	X	.06015	=	2,614	16,806
MINIDOKA	HISTORICAL	52,173	X	.07137	=	3,724	2,614
THE DALLES	HISTORICAL	198,806	X	.06720	=	13,359	3,724
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63	13,359
BPA PROGRAM	HISTORICAL	26,380	X	.06602	=	1,742	63
BPA CONSERVATION	HISTORICAL	519,355	X	.06630	=	34,435	1,742
BUREAU DIRECT FUND	HISTORICAL	542,217	X	.07095	=	38,469	34,435
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	313,944	X	.06574	=	20,638	38,469
IRRIGATION ASSISTANCE	HISTORICAL	750,209	X	.00000	=	0	20,638

0

354,787

AFUDC

INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5	-13,582
	(1,050,323 - 0 - 604,796 - 47,641) X .03413	-----
NET		341,205

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2009

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,573	X	.07150	=	184		184
BOISE	HISTORICAL	3,556	X	.07088	=	254		254
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	122,722	X	.06117	=	7,509		7,509
CHIEF JOSEPH	HISTORICAL	208,663	X	.07150	=	14,919		14,919
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	22,459	X	.06471	=	1,453		1,453
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	38	X	.07150	=	3		3
DWORSHAK	HISTORICAL	149,901	X	.07188	=	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	=	5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
HUNGRY HORSE	HISTORICAL	8,154	X	.07150	=	582		582
ICE HARBOR	HISTORICAL	67,968	X	.07146	=	4,851		4,851
JOHN DAY	HISTORICAL	129,167	X	.07081	=	9,148		9,148
LIBBY	HISTORICAL	228,804	X	.07152	=	16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	=	8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	72	X	.07150	=	5		5
LOST CREEK	HISTORICAL	13,942	X	.07150	=	995		995
LOWER GRANITE	HISTORICAL	167,567	X	.07150	=	11,984		11,984
LOWER MONUMENTAL	HISTORICAL	97,837	X	.07200	=	7,052		7,052

LOWER SNAKE F AND W	HISTORICAL	236,411	X	.07109	=	16,806		7,052
								16,806
MCNARY	HISTORICAL	43,465	X	.06015	=	2,614		2,614
MINIDOKA	HISTORICAL	52,173	X	.07137	=	3,724		3,724
THE DALLES	HISTORICAL	198,806	X	.06720	=	13,359		13,359
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63		63
BPA PROGRAM	HISTORICAL	26,380	X	.06602	=	1,742		1,742
BPA CONSERVATION	HISTORICAL	415,055	X	.06965	=	28,907		28,907
BUREAU DIRECT FUND	HISTORICAL	542,216	X	.07095	=	38,469	127	38,596
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	313,944	X	.06574	=	20,638		20,638
IRRIGATION ASSISTANCE	HISTORICAL	750,188	X	.00000	=	0		0

349,386

AFUDC

INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-14,274
	(1,050,323 - 0 - 587,274 - 44,877) X .03413							-----
NET								335,112

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2010

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,573	X	.07150	=	184		184
BOISE	HISTORICAL	3,556	X	.07088	=	254		254
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	122,722	X	.06117	=	7,509		7,509
CHIEF JOSEPH	HISTORICAL	208,663	X	.07150	=	14,919		14,919
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	22,459	X	.06471	=	1,453		1,453
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	38	X	.07150	=	3		3
DWORSHAK	HISTORICAL	149,901	X	.07188	=	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	=	5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
HUNGRY HORSE	HISTORICAL	8,154	X	.07150	=	582		582
ICE HARBOR	HISTORICAL	67,968	X	.07146	=	4,851		4,851
JOHN DAY	HISTORICAL	129,167	X	.07081	=	9,148		9,148
LIBBY	HISTORICAL	228,804	X	.07152	=	16,366		16,366
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	=	8,687		8,687
LOOKOUT POINT-DEXTER	HISTORICAL	72	X	.07150	=	5		5
LOST CREEK	HISTORICAL	13,942	X	.07150	=	995		995
LOWER GRANITE	HISTORICAL	167,567	X	.07150	=	11,984		11,984
LOWER MONUMENTAL	HISTORICAL	97,837	X	.07200	=	7,052		7,052

LOWER SNAKE F AND W	HISTORICAL	236,411	X	.07109	=	16,806		7,052
MCNARY	HISTORICAL	43,465	X	.06015	=	2,614		16,806
MINIDOKA	HISTORICAL	52,173	X	.07137	=	3,724		2,614
THE DALLES	HISTORICAL	158,391	X	.06633	=	10,506		3,724
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63		10,506
BPA PROGRAM	HISTORICAL	26,380	X	.06602	=	1,742		63
BPA CONSERVATION	HISTORICAL	337,355	X	.06884	=	23,225		1,742
BUREAU DIRECT FUND	HISTORICAL	540,103	X	.07093	=	38,309	3,845	23,225
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	313,944	X	.06574	=	20,638		42,154
IRRIGATION ASSISTANCE	HISTORICAL	742,479	X	.00000	=	0		20,638

0

344,409

AFUDC

INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5	-14,435
	(1,050,323 - 0 - 585,491 - 41,957) X .03413	-----
NET		329,974

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2011

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,556	X	.07150	=	183		183
BOISE	HISTORICAL	3,556	X	.07088	=	254		254
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	122,697	X	.06117	=	7,507		7,507
	NEW 2/	186,747	X	.02852	=	5,326		5,326
CHIEF JOSEPH	HISTORICAL	208,648	X	.07150	=	14,918		14,918
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	22,459	X	.06471	=	1,453		1,453
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	38	X	.07150	=	3		3
DWORSHAK	HISTORICAL	149,901	X	.07188	=	10,770		10,770
GREEN PETER-FOSTER	HISTORICAL	61	X	.07207	=	5		5
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
HUNGRY HORSE	HISTORICAL	8,154	X	.07150	=	582		582
ICE HARBOR	HISTORICAL	67,968	X	.07146	=	4,851		4,851
	NEW 2/	36,319	X	.02817	=	1,023		1,023
JOHN DAY	HISTORICAL	129,167	X	.07081	=	9,148		9,148
LIBBY	HISTORICAL	228,804	X	.07152	=	16,366		16,366
	NEW 2/	11,881	X	.02973	=	353		353
LITTLE GOOSE	HISTORICAL	120,751	X	.07197	=	8,687		8,687
	NEW 2/	45,883	X	.02911	=	1,335		1,335
LOOKOUT POINT-DEXTER	HISTORICAL	72	X	.07150	=	5		5
	NEW 2/	23	X	.02779	=	0		0

LOST CREEK	HISTORICAL	13,942	X	.07150	=	995	
							995
LOWER GRANITE	HISTORICAL	167,567	X	.07150	=	11,984	
	NEW 2/	23	X	.02820	=	1	
							11,985
LOWER MONUMENTAL	HISTORICAL	97,837	X	.07200	=	7,052	
	NEW 2/	26	X	.02777	=	1	
							7,053
LOWER SNAKE F AND W	HISTORICAL	236,411	X	.07109	=	16,806	
	NEW 2/	642	X	.02777	=	18	
							16,824
MCNARY	HISTORICAL	42,956	X	.06002	=	2,578	
	NEW 2/	99	X	.02783	=	3	
							2,581
MINIDOKA	HISTORICAL	52,092	X	.07138	=	3,719	
							3,719
THE DALLES	HISTORICAL	119,212	X	.06483	=	7,728	
							7,728
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63	
							63
BPA PROGRAM	HISTORICAL	26,380	X	.06602	=	1,742	
							1,742
BPA CONSERVATION	HISTORICAL	337,355	X	.06884	=	23,225	
							23,225
BUREAU DIRECT FUND	HISTORICAL	474,537	X	.07031	=	33,366	59
							33,425
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	291,044	X	.06524	=	18,989	
							18,989
IRRIGATION ASSISTANCE	HISTORICAL	742,479	X	.00000	=	0	
							0

							339,268
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-13,879
	(1,050,323 - 0 - 605,065 - 38,661) X .03413						-----
NET							325,389

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2012

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,556	X	.07150	=	183		183
BOISE	HISTORICAL	3,525	X	.07096	=	252		252
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	309,402	X	.05867	=	18,155		18,155
	NEW 2/	1,268	X	.02848	=	37		37
CHIEF JOSEPH	HISTORICAL	208,648	X	.07150	=	14,918		14,918
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	22,459	X	.06471	=	1,453		1,453
COUGAR	HISTORICAL	9,597	X	.07230	=	686		686
	NEW 2/	4	X	.02785	=	0		0
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	38	X	.07150	=	3		3
DWORSHAK	HISTORICAL	149,794	X	.07188	=	10,762		10,762
GREEN PETER-FOSTER	HISTORICAL	26	X	.07150	=	2		2
	NEW 2/	2,235	X	.02974	=	66		66
HILLS CREEK	HISTORICAL	9,570	X	.07160	=	686		686
	NEW 2/	1	X	.02932	=	0		0
HUNGRY HORSE	HISTORICAL	8,154	X	.07150	=	582		582
ICE HARBOR	HISTORICAL	104,287	X	.06619	=	6,897		6,897
	NEW 2/	36,550	X	.02805	=	1,026		1,026
JOHN DAY	HISTORICAL	107,089	X	.07042	=	7,543		7,543
	NEW 2/	31	X	.02777	=	1		1
LIBBY	HISTORICAL	240,685	X	.07093	=	17,072		17,072
LITTLE GOOSE	HISTORICAL	166,634	X	.06818	=	11,359		11,359
LOOKOUT POINT-DEXTER	HISTORICAL	95	X	.06765	=	6		6

								6
LOST CREEK	HISTORICAL	13,942	X	.07150	=	995		
	NEW 2/	19	X	.02974	=	1		
								996
LOWER GRANITE	HISTORICAL	167,335	X	.07149	=	11,967		
								11,967
LOWER MONUMENTAL	HISTORICAL	44,513	X	.07139	=	3,179		
								3,179
LOWER SNAKE F AND W	HISTORICAL	237,053	X	.07105	=	16,842		
								16,842
MCNARY	HISTORICAL	43,052	X	.06001	=	2,584		
								2,584
MINIDOKA	HISTORICAL	51,958	X	.07139	=	3,710		
								3,710
THE DALLES	HISTORICAL	106,410	X	.06405	=	6,815		
								6,815
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63		
								63
BPA PROGRAM	HISTORICAL	26,380	X	.06602	=	1,742		
								1,742
BPA CONSERVATION	HISTORICAL	307,355	X	.06902	=	21,215		
								21,215
BUREAU DIRECT FUND	HISTORICAL	473,505	X	.07030	=	33,288		
								33,288
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	291,044	X	.06524	=	18,989		
								18,989
IRRIGATION ASSISTANCE	HISTORICAL	742,479	X	.00000	=	0		

0

339,877

AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-13,157
	(1,050,323 - 0 - 627,264 - 37,617) X .03413							-----

NET 326,720

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR
1

INTEREST CALCULATION FOR FY 2013

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,556	X	.07150	=	183		183
BOISE	HISTORICAL	3,498	X	.07105	=	250		250
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	310,670	X	.05867	=	18,227		18,358
	NEW 2/	4,683	X	.02787	=	131		
CHIEF JOSEPH	HISTORICAL	208,648	X	.07150	=	14,918		17,253
	NEW 2/	78,501	X	.02974	=	2,335		
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	22,459	X	.06471	=	1,453		3,293
	NEW 2/	61,863	X	.02974	=	1,840		
COUGAR	HISTORICAL	9,601	X	.07229	=	686		686
	NEW 2/	3	X	.02777	=	0		
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	38	X	.07150	=	3		3
DWORSHAK	HISTORICAL	149,794	X	.07188	=	10,762		11,138
	NEW 2/	12,769	X	.02945	=	376		
GREEN PETER-FOSTER	HISTORICAL	2,261	X	.05963	=	135		192
	NEW 2/	1,921	X	.02974	=	57		
HILLS CREEK	HISTORICAL	29	X	.07106	=	2		2
HUNGRY HORSE	HISTORICAL	8,154	X	.07150	=	582		636
	NEW 2/	1,858	X	.02901	=	54		
ICE HARBOR	HISTORICAL	94,868	X	.05969	=	5,665		5,665
JOHN DAY	HISTORICAL	89,172	X	.06999	=	6,244		6,244
LIBBY	HISTORICAL	240,685	X	.07093	=	17,072		17,072
LITTLE GOOSE	HISTORICAL	145,333	X	.06755	=	9,815		11,065
	NEW 2/	11,065	X	.02974	=	329		

LOOKOUT POINT-DEXTER	HISTORICAL	95	X	.06765	=	6	10,144
							6
LOST CREEK	HISTORICAL	13,961	X	.07148	=	996	
	NEW 2/	5	X	.02820	=	0	996
LOWER GRANITE	HISTORICAL	167,335	X	.07149	=	11,967	
	NEW 2/	11,223	X	.02974	=	334	12,301
LOWER MONUMENTAL	HISTORICAL	43,852	X	.07137	=	3,131	3,131
LOWER SNAKE F AND W	HISTORICAL	237,053	X	.07105	=	16,842	
	NEW 2/	4,978	X	.02899	=	144	16,986
MCNARY	HISTORICAL	43,052	X	.06001	=	2,584	2,584
MINIDOKA	HISTORICAL	51,878	X	.07141	=	3,705	3,705
THE DALLES	HISTORICAL	106,410	X	.06405	=	6,815	
	NEW 2/	254	X	.02889	=	7	6,822
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63	63
BPA PROGRAM	HISTORICAL	26,380	X	.06602	=	1,742	1,742
BPA CONSERVATION	HISTORICAL	307,355	X	.06902	=	21,215	21,215
BUREAU DIRECT FUND	HISTORICAL	473,505	X	.07030	=	33,288	33,288
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	291,044	X	.06524	=	18,989	18,989
IRRIGATION ASSISTANCE	HISTORICAL	741,668	X	.00000	=	0	0

							339,745
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-21,442
	(1,050,323 - 0 - 384,546 - 37,617) X .03413						-----
NET							318,303

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2014

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,556	X	.07150	=	183	183
BOISE	HISTORICAL	3,471	X	.07115	=	248	248
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227	26,227
BONNEVILLE	HISTORICAL	315,231	X	.05862	=	18,479	18,479
CHIEF JOSEPH	HISTORICAL	287,149	X	.06822	=	19,588	19,588
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564	32,564
COLUMBIA BASIN	HISTORICAL	84,322	X	.06088	=	5,133	5,133
COUGAR	HISTORICAL	33	X	.06814	=	2	2
	NEW 2/	151	X	.02932	=	4	4
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007	68,007
DETROIT-BIG CLIFF	HISTORICAL	38	X	.07150	=	3	3
	NEW 2/	32,744	X	.02856	=	936	936
DWORSHAK	HISTORICAL	162,353	X	.07086	=	11,499	11,499
GREEN PETER-FOSTER	HISTORICAL	4,182	X	.05956	=	249	249
HILLS CREEK	HISTORICAL	29	X	.07106	=	2	2
HUNGRY HORSE	HISTORICAL	10,012	X	.06900	=	690	690
ICE HARBOR	HISTORICAL	94,802	X	.05968	=	5,660	5,660
JOHN DAY	HISTORICAL	36,275	X	.06667	=	2,420	2,420
LIBBY	HISTORICAL	240,253	X	.07092	=	17,041	17,041
LITTLE GOOSE	HISTORICAL	112,675	X	.06491	=	7,313	7,313
LOOKOUT POINT-DEXTER	HISTORICAL	95	X	.06765	=	6	6
LOST CREEK	HISTORICAL	13,966	X	.07148	=	996	996
LOWER GRANITE	HISTORICAL	178,558	X	.07074	=	12,635	12,635

LOWER MONUMENTAL	HISTORICAL	43,632	X	.07137	=	3,114	12,635
	NEW 2/	43,843	X	.02877	=	1,261	
							4,375
LOWER SNAKE F AND W	HISTORICAL	242,031	X	.07078	=	17,130	17,130
MCNARY	HISTORICAL	43,052	X	.06001	=	2,584	2,584
MINIDOKA	HISTORICAL	51,798	X	.07143	=	3,700	3,700
THE DALLES	HISTORICAL	106,664	X	.06403	=	6,830	
	NEW 2/	49	X	.02744	=	1	
							6,831
YAKIMA-CHANDLER	HISTORICAL	867	X	.07210	=	63	63
BPA PROGRAM	HISTORICAL	26,380	X	.06602	=	1,742	1,742
BPA CONSERVATION	HISTORICAL	214,555	X	.07251	=	15,558	15,558
BUREAU DIRECT FUND	HISTORICAL	473,505	X	.07030	=	33,288	33,288
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	231,044	X	.06634	=	15,329	15,329
IRRIGATION ASSISTANCE	HISTORICAL	691,872	X	.00000	=	0	0

330,485

AFUDC

INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5	-21,787
	(1,050,323 - 0 - 379,091 - 32,959) X .03413	-----

308,698

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2015

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	2,556	X	.07150	=	183		
	NEW 2/	1,267	X	.02879	=	36		219
BOISE	HISTORICAL	3,444	X	.07126	=	246		246
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	315,231	X	.05862	=	18,479		18,479
CHIEF JOSEPH	HISTORICAL	287,149	X	.06822	=	19,588		19,588
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	455,389	X	.07151	=	32,564		32,564
COLUMBIA BASIN	HISTORICAL	84,322	X	.06088	=	5,133		5,133
COUGAR	HISTORICAL	184	X	.06034	=	11		11
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	32,782	X	.05713	=	1,873		1,873
DWORSHAK	HISTORICAL	21,999	X	.06419	=	1,412		
	NEW 2/	19	X	.02777	=	1		1,413
GREEN PETER-FOSTER	HISTORICAL	4,182	X	.05956	=	249		
	NEW 2/	15	X	.02785	=	0		249
HILLS CREEK	HISTORICAL	29	X	.07106	=	2		2
HUNGRY HORSE	HISTORICAL	10,012	X	.06900	=	690		690
ICE HARBOR	HISTORICAL	94,802	X	.05968	=	5,660		5,660
JOHN DAY	HISTORICAL	26,346	X	.06462	=	1,704		
	NEW 2/	34,886	X	.02966	=	1,035		2,739
LIBBY	HISTORICAL	240,253	X	.07092	=	17,041		
	NEW 2/	234	X	.02846	=	7		17,048
LITTLE GOOSE	HISTORICAL	112,675	X	.06491	=	7,313		7,313
LOOKOUT POINT-DEXTER	HISTORICAL	95	X	.06765	=	6		
	NEW 2/	1,238	X	.02861	=	34		

LOST CREEK	HISTORICAL	13,966	X	.07148	=	996	40
LOWER GRANITE	HISTORICAL	106,166	X	.07015	=	7,450	996
	NEW 2/	49,265	X	.02901	=	1,429	
LOWER MONUMENTAL	HISTORICAL	87,475	X	.06444	=	5,637	8,879
LOWER SNAKE F AND W	HISTORICAL	242,031	X	.07078	=	17,130	5,637
	NEW 2/	123	X	.02785	=	3	
MCNARY	HISTORICAL	43,052	X	.06001	=	2,584	17,133
	NEW 2/	123,392	X	.02817	=	3,476	
MINIDOKA	HISTORICAL	51,718	X	.07145	=	3,695	6,060
THE DALLES	HISTORICAL	77,462	X	.06108	=	4,731	3,695
	NEW 2/	133	X	.02782	=	3	
BPA PROGRAM	HISTORICAL	15,300	X	.07111	=	1,088	4,734
BPA CONSERVATION	HISTORICAL	164,555	X	.07404	=	12,183	1,088
BUREAU DIRECT FUND	HISTORICAL	473,505	X	.07030	=	33,288	12,183
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	231,044	X	.06634	=	15,329	33,288
IRRIGATION ASSISTANCE	HISTORICAL	643,318	X	.00000	=	0	15,329

0

316,523

AFUDC

INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5	-21,995
	(1,050,323 - 0 - 375,036 - 30,944) X .03413	-----
NET		294,528

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2016

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	3,823	X	.06688	= 256		256
BOISE	HISTORICAL	3,417	X	.07138	= 244		244
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	= 26,227		26,227
BONNEVILLE	HISTORICAL	315,231	X	.05862	= 18,479		18,479
	NEW 2/	78,637	X	.02755	= 2,167		2,167
CHIEF JOSEPH	HISTORICAL	287,149	X	.06822	= 19,588		19,588
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	411,264	X	.07150	= 29,405		29,405
COLUMBIA BASIN	HISTORICAL	84,322	X	.06088	= 5,133		5,133
COUGAR	HISTORICAL	184	X	.06034	= 11		11
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	= 68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	32,782	X	.05713	= 1,873		1,873
DWORSHAK	HISTORICAL	22,018	X	.06418	= 1,413		1,413
GREEN PETER-FOSTER	HISTORICAL	4,197	X	.05955	= 250		250
	NEW 2/	19	X	.02777	= 1		1
HILLS CREEK	HISTORICAL	29	X	.07106	= 2		2
HUNGRY HORSE	HISTORICAL	10,012	X	.06900	= 690		690
ICE HARBOR	HISTORICAL	94,802	X	.05968	= 5,660		5,660
	NEW 2/	5,098	X	.02971	= 151		151
JOHN DAY	HISTORICAL	61,232	X	.06159	= 3,773		3,773
LIBBY	HISTORICAL	155,041	X	.07056	= 10,939		10,939
	NEW 2/	18,459	X	.02970	= 548		548
LITTLE GOOSE	HISTORICAL	112,675	X	.06491	= 7,313		7,313
	NEW 2/	34,470	X	.02846	= 981		981
LOOKOUT POINT-DEXTER	HISTORICAL	1,333	X	.05796	= 77		77

LOST CREEK	HISTORICAL	13,966	X	.07148	=	996	
							996
LOWER GRANITE	HISTORICAL	105,451	X	.06380	=	6,728	
							6,728
LOWER MONUMENTAL	HISTORICAL	87,475	X	.06444	=	5,637	
							5,637
LOWER SNAKE F AND W	HISTORICAL	242,154	X	.07077	=	17,137	
							17,137
MCNARY	HISTORICAL	166,444	X	.05729	=	9,536	
							9,536
MINIDOKA	HISTORICAL	51,638	X	.07148	=	3,690	
							3,690
THE DALLES	HISTORICAL	77,595	X	.06107	=	4,738	
							4,738
YAKIMA-CHANDLER	NEW 2/	262	X	.02885	=	8	
							8
BPA PROGRAM	HISTORICAL	15,300	X	.07111	=	1,088	
							1,088
BPA CONSERVATION	HISTORICAL	79,555	X	.07301	=	5,808	
							5,808
BUREAU DIRECT FUND	HISTORICAL	438,505	X	.06993	=	30,663	
							30,663
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	204,044	X	.06554	=	13,374	
							13,374
IRRIGATION ASSISTANCE	HISTORICAL	589,217	X	.00000	=	0	
							0

							302,591
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-22,520
	(1,050,323 - 0 - 365,132 - 25,466) X .03413						-----
NET							280,071

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2017

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	3,823	X	.06688	=	256		256
BOISE	HISTORICAL	3,390	X	.07150	=	242		270
	NEW 2/	949	X	.02973	=	28		
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	321,056	X	.05860	=	18,815		21,168
	NEW 2/	79,089	X	.02974	=	2,353		
CHIEF JOSEPH	HISTORICAL	287,149	X	.06822	=	19,588		19,706
	NEW 2/	4,110	X	.02871	=	118		
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	361,897	X	.07150	=	25,875		25,875
COLUMBIA BASIN	HISTORICAL	84,246	X	.06087	=	5,128		6,457
	NEW 2/	44,684	X	.02974	=	1,329		
COUGAR	HISTORICAL	184	X	.06034	=	11		11
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	32,782	X	.05713	=	1,873		1,873
	NEW 2/	3	X	.02777	=	0		
DWORSHAK	HISTORICAL	22,018	X	.06418	=	1,413		1,413
GREEN PETER-FOSTER	HISTORICAL	4,216	X	.05953	=	251		256
	NEW 2/	176	X	.02914	=	5		
HILLS CREEK	HISTORICAL	29	X	.07106	=	2		2
HUNGRY HORSE	HISTORICAL	10,012	X	.06900	=	690		690
ICE HARBOR	HISTORICAL	79,179	X	.05657	=	4,481		4,903
	NEW 2/	15,363	X	.02744	=	422		
JOHN DAY	HISTORICAL	61,232	X	.06159	=	3,773		3,773
LIBBY	HISTORICAL	46,317	X	.06352	=	2,941		2,941
LITTLE GOOSE	HISTORICAL	147,145	X	.06304	=	9,275		9,275

LOOKOUT POINT-DEXTER	HISTORICAL	1,333	X	.05796	=	77	
							77
LOST CREEK	HISTORICAL	5,980	X	.07145	=	425	
	NEW 2/	1,789	X	.02972	=	53	
							478
LOWER GRANITE	HISTORICAL	105,451	X	.06380	=	6,728	
	NEW 2/	27	X	.02777	=	1	
							6,729
LOWER MONUMENTAL	HISTORICAL	87,475	X	.06444	=	5,637	
	NEW 2/	2,632	X	.02820	=	74	
							5,711
LOWER SNAKE F AND W	HISTORICAL	242,154	X	.07077	=	17,137	
							17,137
MCNARY	HISTORICAL	166,093	X	.05726	=	9,511	
							9,511
MINIDOKA	HISTORICAL	51,558	X	.07150	=	3,686	
	NEW 2/	8,297	X	.02956	=	246	
							3,932
THE DALLES	HISTORICAL	77,595	X	.06107	=	4,738	
							4,738
YAKIMA-CHANDLER	HISTORICAL	262	X	.05769	=	16	
							16
BPA PROGRAM	HISTORICAL	15,300	X	.07111	=	1,088	
							1,088
BPA CONSERVATION	HISTORICAL	79,555	X	.07301	=	5,808	
							5,808
BUREAU DIRECT FUND	HISTORICAL	438,505	X	.06993	=	30,663	
							30,663
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	177,044	X	.06499	=	11,506	
							11,506
IRRIGATION ASSISTANCE	HISTORICAL	524,953	X	.00000	=	0	
							0

							290,497
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-25,157
	(1,050,323 - 0 - 288,805 - 24,532) X .03413						-----
NET							265,340

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2018

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	3,823	X	.06688	=	256		256
BOISE	HISTORICAL	4,339	X	.06886	=	298		298
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	366,796	X	.07150	=	26,227		26,227
BONNEVILLE	HISTORICAL	384,475	X	.05826	=	22,400		23,260
	NEW 2/	30,984	X	.02777	=	860		
CHIEF JOSEPH	HISTORICAL	168,706	X	.06557	=	11,061		12,576
	NEW 2/	50,961	X	.02973	=	1,515		
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	254,133	X	.07150	=	18,169		18,169
COLUMBIA BASIN	HISTORICAL	128,930	X	.06039	=	7,786		14,390
	NEW 2/	222,182	X	.02972	=	6,604		
COUGAR	HISTORICAL	184	X	.06034	=	11		11
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	32,785	X	.05713	=	1,873		1,873
	NEW 2/	5	X	.02785	=	0		
DWORSHAK	HISTORICAL	22,018	X	.06418	=	1,413		1,507
	NEW 2/	3,295	X	.02846	=	94		
GREEN PETER-FOSTER	HISTORICAL	4,392	X	.05948	=	261		263
	NEW 2/	77	X	.02932	=	2		
HILLS CREEK	HISTORICAL	29	X	.07106	=	2		2
HUNGRY HORSE	HISTORICAL	10,012	X	.06900	=	690		690
ICE HARBOR	HISTORICAL	79,179	X	.05657	=	4,481		5,507
	NEW 2/	36,923	X	.02779	=	1,026		
JOHN DAY	HISTORICAL	61,232	X	.06159	=	3,773		3,774
	NEW 2/	54	X	.02817	=	1		
LIBBY	HISTORICAL	46,317	X	.06352	=	2,941		2,943
	NEW 2/	77	X	.02777	=	2		

LITTLE GOOSE	HISTORICAL	97,520	X	.05873	=	5,727	
	NEW 2/	11,288	X	.02955	=	333	6,060
LOOKOUT POINT-DEXTER	HISTORICAL	1,333	X	.05796	=	77	
	NEW 2/	17	X	.02777	=	0	77
LOST CREEK	HISTORICAL	1,962	X	.06035	=	118	118
LOWER GRANITE	HISTORICAL	63,316	X	.05867	=	3,714	
	NEW 2/	9,068	X	.02971	=	269	3,983
LOWER MONUMENTAL	HISTORICAL	89,851	X	.06418	=	5,768	
	NEW 2/	26	X	.02777	=	1	5,769
LOWER SNAKE F AND W	HISTORICAL	242,154	X	.07077	=	17,137	
	NEW 2/	1,978	X	.02904	=	57	17,194
MCNARY	HISTORICAL	166,093	X	.05726	=	9,511	
	NEW 2/	32	X	.02777	=	1	9,512
MINIDOKA	HISTORICAL	59,855	X	.06978	=	4,176	4,176
THE DALLES	HISTORICAL	77,595	X	.06107	=	4,738	
	NEW 2/	8,753	X	.02942	=	258	4,996
YAKIMA-CHANDLER	HISTORICAL	262	X	.05769	=	16	16
YAKIMA-ROZA	NEW 2/	17	X	.02907	=	0	0
BPA PROGRAM	HISTORICAL	15,300	X	.07111	=	1,088	1,088
BPA CONSERVATION	HISTORICAL	39,555	X	.07403	=	2,928	2,928
BUREAU DIRECT FUND	HISTORICAL	438,505	X	.06993	=	30,663	30,663
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	142,312	X	.06452	=	9,182	9,182
IRRIGATION ASSISTANCE	HISTORICAL	462,707	X	.00000	=	0	0

							275,515

AFUDC

0

INTEREST INCOME (REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5
 (1,050,323 - 0 - 126,988 - 21,930) X .03413

-30,769

NET

 244,746

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2019

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

+ PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	3,823	X	.06688	= 256		256
BOISE	HISTORICAL	4,339	X	.06886	= 298		298
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	88,720	X	.07150	= 6,344		6,344
BONNEVILLE	HISTORICAL	383,935	X	.05824	= 22,361		22,361
CHIEF JOSEPH	HISTORICAL	141,542	X	.06010	= 8,505		8,505
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	110,768	X	.07150	= 7,919		7,919
COLUMBIA BASIN	HISTORICAL	350,727	X	.05978	= 20,965		20,965
COUGAR	HISTORICAL	184	X	.06034	= 11		11
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	= 68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	32,790	X	.05713	= 1,873		1,873
DWORSHAK	HISTORICAL	24,886	X	.06310	= 1,570		1,570
GREEN PETER-FOSTER	HISTORICAL	4,469	X	.05947	= 266		266
HILLS CREEK	HISTORICAL	29	X	.07106	= 2		2
HUNGRY HORSE	HISTORICAL	8,281	X	.06848	= 567		567
ICE HARBOR	HISTORICAL	86,976	X	.05648	= 4,914		4,914
JOHN DAY	HISTORICAL	61,286	X	.06159	= 3,776		3,776
	NEW 2/	31	X	.02777	= 1		1
LIBBY	HISTORICAL	46,015	X	.06347	= 2,919		2,919
LITTLE GOOSE	HISTORICAL	108,808	X	.05877	= 6,395		6,395
	NEW 2/	2,627	X	.02820	= 74		74
LOOKOUT POINT-DEXTER	HISTORICAL	1,333	X	.05796	= 77		77
	NEW 2/	6	X	.02785	= 0		0
LOST CREEK	HISTORICAL	1,931	X	.06018	= 116		116
LOWER GRANITE	HISTORICAL	72,178	X	.05872	= 4,238		4,238

LOWER MONUMENTAL	HISTORICAL	49,182	X	.05813	=	2,860	4,238
	NEW 2/	13,701	X	.02969	=	406	
LOWER SNAKE F AND W	HISTORICAL	233,469	X	.07068	=	16,500	3,266
	NEW 2/	586	X	.02820	=	17	
MCNARY	HISTORICAL	166,063	X	.05726	=	9,509	16,517
	NEW 2/	67	X	.02785	=	2	
MINIDOKA	HISTORICAL	59,855	X	.06978	=	4,176	9,511
THE DALLES	HISTORICAL	86,348	X	.06084	=	5,254	4,176
	NEW 2/	2,895	X	.02865	=	83	
YAKIMA-CHANDLER	HISTORICAL	262	X	.05769	=	16	5,337
YAKIMA-ROZA	HISTORICAL	17	X	.05813	=	1	16
BPA PROGRAM	HISTORICAL	15,300	X	.07111	=	1,088	1
BPA CONSERVATION	HISTORICAL	39,555	X	.07403	=	2,928	1,088
BUREAU DIRECT FUND	HISTORICAL	438,505	X	.06993	=	30,663	2,928
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	103,995	X	.06434	=	6,691	30,663
IRRIGATION ASSISTANCE	HISTORICAL	437,247	X	.00000	=	0	6,691

241,648

AFUDC

INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5	-23,106
	(1,050,323 - 0 - 352,752 - 20,685) X .03413	-----

NET 218,542

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2020

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	3,823	X	.06688	=	256		256
BOISE	HISTORICAL	4,339	X	.06886	=	298		298
BONNEVILLE - 2ND POWER HOUSE	HISTORICAL	9,867	X	.07150	=	706		706
BONNEVILLE	HISTORICAL	383,935	X	.05824	=	22,361		22,361
CHIEF JOSEPH	HISTORICAL	141,542	X	.06010	=	8,505		8,505
COLUMBIA BASIN - 3RD PWR HOUSE	HISTORICAL	12,631	X	.07150	=	903		903
COLUMBIA BASIN	HISTORICAL	350,727	X	.05978	=	20,965		20,965
COUGAR	HISTORICAL	184	X	.06034	=	11		11
	NEW 2/	7	X	.02782	=	0		0
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,111,807	X	.06117	=	68,007		68,007
DETROIT-BIG CLIFF	HISTORICAL	32,790	X	.05713	=	1,873		1,873
DWORSHAK	HISTORICAL	24,886	X	.06310	=	1,570		1,570
GREEN PETER-FOSTER	HISTORICAL	4,469	X	.05947	=	266		266
HILLS CREEK	HISTORICAL	29	X	.07106	=	2		2
HUNGRY HORSE	HISTORICAL	8,281	X	.06848	=	567		567
ICE HARBOR	HISTORICAL	86,605	X	.05641	=	4,887		4,887
JOHN DAY	HISTORICAL	61,091	X	.06156	=	3,761		3,761
	NEW 2/	731	X	.02932	=	21		21
LIBBY	HISTORICAL	31,234	X	.05967	=	1,862		1,862
	NEW 2/	8,798	X	.02974	=	262		262
LITTLE GOOSE	HISTORICAL	110,190	X	.05858	=	6,456		6,456
	NEW 2/	26	X	.02777	=	1		1
LOOKOUT POINT-DEXTER	HISTORICAL	1,333	X	.05796	=	77		77
LOST CREEK	HISTORICAL	1,931	X	.06018	=	116		116

									116
LOWER GRANITE	HISTORICAL	72,178	X	.05872	=	4,238			
	NEW 2/	19,623	X	.02846	=	558			
									4,796
LOWER MONUMENTAL	HISTORICAL	62,619	X	.05835	=	3,655			
									3,655
LOWER SNAKE F AND W	HISTORICAL	79,109	X	.06897	=	5,455			
									5,455
MCNARY	HISTORICAL	166,063	X	.05726	=	9,509			
									9,509
MINIDOKA	HISTORICAL	59,855	X	.06978	=	4,176			
									4,176
THE DALLES	HISTORICAL	89,194	X	.06073	=	5,417			
									5,417
YAKIMA-CHANDLER	HISTORICAL	262	X	.05769	=	16			
									16
YAKIMA-ROZA	HISTORICAL	17	X	.05813	=	1			
									1
BPA PROGRAM	HISTORICAL	15,300	X	.07111	=	1,088	320		
									1,408
BPA CONSERVATION	HISTORICAL	33,555	X	.07391	=	2,480			
									2,480
BUREAU DIRECT FUND	HISTORICAL	438,505	X	.06993	=	30,663	6,237		
									36,900
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	68,170	X	.06410	=	4,370			
									4,370
IRRIGATION ASSISTANCE	HISTORICAL	370,246	X	.00000	=	0			

0

221,916

AFUDC									0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5								-23,153
	(1,050,323 - 0 - 352,757 - 19,300) X .03413								-----
NET									198,763

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR
1

INTEREST CALCULATION FOR FY 2021

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	1,267	X	.05757	=	73		73
BOISE	HISTORICAL	949	X	.05945	=	56		56
BONNEVILLE	HISTORICAL	380,018	X	.05810	=	22,081		26,401
	NEW 2/	151,180	X	.02857	=	4,320		7,936
CHIEF JOSEPH	HISTORICAL	133,572	X	.05942	=	7,936		20,470
COLUMBIA BASIN	HISTORICAL	343,795	X	.05954	=	20,470		9
COUGAR	HISTORICAL	158	X	.05851	=	9		64,928
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,068,747	X	.06075	=	64,928		1,870
DETROIT-BIG CLIFF	HISTORICAL	32,752	X	.05712	=	1,870		944
DWORSHAK	HISTORICAL	16,083	X	.05850	=	941		264
	NEW 2/	104	X	.02806	=	3		0
GREEN PETER-FOSTER	HISTORICAL	4,443	X	.05940	=	264		108
HILLS CREEK	HISTORICAL	1	X	.05864	=	0		4,883
HUNGRY HORSE	HISTORICAL	1,858	X	.05803	=	108		3,198
ICE HARBOR	HISTORICAL	86,538	X	.05640	=	4,882		2,338
	NEW 2/	31	X	.02974	=	1		61
JOHN DAY	HISTORICAL	53,345	X	.05994	=	3,198		6,257
LIBBY	HISTORICAL	39,372	X	.05943	=	2,338		151
	NEW 2/	2,135	X	.02846	=	61		72
LITTLE GOOSE	HISTORICAL	105,288	X	.05798	=	6,106		107
	NEW 2/	5,127	X	.02965	=	151		5,261
LOOKOUT POINT-DEXTER	HISTORICAL	1,261	X	.05719	=	72		
LOST CREEK	HISTORICAL	1,813	X	.05944	=	107		
LOWER GRANITE	HISTORICAL	90,490	X	.05815	=	5,261		

LOWER MONUMENTAL	HISTORICAL	60,723	X	.05794	=	3,519		3,519
LOWER SNAKE F AND W	HISTORICAL	16,054	X	.05903	=	947		947
MCNARY	HISTORICAL	165,428	X	.05720	=	9,464		9,464
MINIDOKA	HISTORICAL	8,297	X	.05912	=	490		490
THE DALLES	HISTORICAL	87,203	X	.06049	=	5,275		5,330
	NEW 2/	1,949	X	.02820	=	55		
YAKIMA-CHANDLER	HISTORICAL	262	X	.05769	=	16		16
YAKIMA-ROZA	HISTORICAL	17	X	.05813	=	1		1
BPA PROGRAM	HISTORICAL	7,700	X	.06935	=	534	330	864
BPA CONSERVATION	HISTORICAL	1,000	X	.07110	=	71		71
BUREAU DIRECT FUND	HISTORICAL	291,030	X	.06894	=	20,061	12,576	32,637
FISH, WILDLIFE & ENVIRONMENTAL	HISTORICAL	34,182	X	.06380	=	2,181		2,181
IRRIGATION ASSISTANCE	HISTORICAL	333,503	X	.00000	=	0		0

								200,756

AFUDC

INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-23,522
	(1,050,323 - 0 - 349,818 - 11,423) X .03413							-----
NET								177,234

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2022

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	1,267	X	.05757	= 73		73
BOISE	HISTORICAL	949	X	.05945	= 56		56
BONNEVILLE	HISTORICAL	435,920	X	.05810	= 25,326		29,372
	NEW 2/	136,014	X	.02974	= 4,046		
CHIEF JOSEPH	HISTORICAL	133,572	X	.05942	= 7,936		7,936
COLUMBIA BASIN	HISTORICAL	339,075	X	.05948	= 20,169		21,689
	NEW 2/	51,862	X	.02930	= 1,520		
COUGAR	HISTORICAL	158	X	.05851	= 9		9
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	1,008,796	X	.06069	= 61,223		61,223
DETROIT-BIG CLIFF	HISTORICAL	32,752	X	.05712	= 1,870		1,870
DWORSHAK	HISTORICAL	16,144	X	.05849	= 944		945
	NEW 2/	19	X	.02777	= 1		
GREEN PETER-FOSTER	HISTORICAL	4,443	X	.05940	= 264		264
HILLS CREEK	HISTORICAL	1	X	.05864	= 0		12
	NEW 2/	389	X	.02974	= 12		
HUNGRY HORSE	HISTORICAL	1,858	X	.05803	= 108		108
ICE HARBOR	HISTORICAL	86,569	X	.05640	= 4,884		5,938
	NEW 2/	37,802	X	.02787	= 1,054		
JOHN DAY	HISTORICAL	53,345	X	.05994	= 3,198		3,198
LIBBY	HISTORICAL	41,507	X	.05930	= 2,460		2,460
LITTLE GOOSE	HISTORICAL	110,402	X	.05804	= 6,410		6,410
LOOKOUT POINT-DEXTER	HISTORICAL	1,261	X	.05719	= 72		72
LOST CREEK	HISTORICAL	1,813	X	.05944	= 107		148
	NEW 2/	1,362	X	.02974	= 41		
LOWER GRANITE	HISTORICAL	90,490	X	.05815	= 5,261		5,261

LOWER MONUMENTAL	HISTORICAL	60,723	X	.05794	=	3,519	
							3,519
LOWER SNAKE F AND W	HISTORICAL	16,054	X	.05903	=	947	
							947
MCNARY	HISTORICAL	165,428	X	.05720	=	9,464	
							9,464
MINIDOKA	HISTORICAL	8,297	X	.05912	=	490	
	NEW 2/	3,572	X	.02971	=	106	
							596
THE DALLES	HISTORICAL	76,624	X	.05982	=	4,584	
	NEW 2/	53	X	.02777	=	1	
							4,585
YAKIMA-CHANDLER	HISTORICAL	262	X	.05769	=	16	
							16
YAKIMA-ROZA	HISTORICAL	17	X	.05813	=	1	
							1
IRRIGATION ASSISTANCE	HISTORICAL	316,677	X	.00000	=	0	
							0

							166,172
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-23,895
	(1,050,323 - 0 - 350,317 - 0) X .03413						-----
NET							142,277

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2023

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	1,267	X	.05757	=	73		73
BOISE	HISTORICAL	949	X	.05945	=	56		56
BONNEVILLE	HISTORICAL	563,024	X	.05838	=	32,866		32,866
CHIEF JOSEPH	HISTORICAL	133,572	X	.05942	=	7,936		7,942
	NEW 2/	227	X	.02846	=	6		
COLUMBIA BASIN	HISTORICAL	389,775	X	.05936	=	23,136		25,177
	NEW 2/	68,661	X	.02972	=	2,041		
COUGAR	HISTORICAL	158	X	.05851	=	9		9
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	536,461	X	.05971	=	32,033		32,033
DETROIT-BIG CLIFF	HISTORICAL	32,752	X	.05712	=	1,870		1,870
DWORSHAK	HISTORICAL	16,144	X	.05849	=	944		1,251
	NEW 2/	10,474	X	.02937	=	307		
GREEN PETER-FOSTER	HISTORICAL	4,443	X	.05940	=	264		265
	NEW 2/	34	X	.02781	=	1		
HILLS CREEK	HISTORICAL	390	X	.05949	=	23		23
HUNGRY HORSE	HISTORICAL	1,858	X	.05803	=	108		220
	NEW 2/	3,770	X	.02974	=	112		
ICE HARBOR	HISTORICAL	94,032	X	.05644	=	5,308		5,308
JOHN DAY	HISTORICAL	53,345	X	.05994	=	3,198		3,198
LIBBY	HISTORICAL	41,507	X	.05930	=	2,460		2,460
LITTLE GOOSE	HISTORICAL	110,402	X	.05804	=	6,410		6,414
	NEW 2/	142	X	.02974	=	4		
LOOKOUT POINT-DEXTER	HISTORICAL	1,261	X	.05719	=	72		72
LOST CREEK	HISTORICAL	3,175	X	.05946	=	188		188
LOWER GRANITE	HISTORICAL	90,490	X	.05815	=	5,261		

	NEW 2/	411	X	.02839	=	12	
							5,273
LOWER MONUMENTAL	HISTORICAL	60,723	X	.05794	=	3,519	
							3,519
LOWER SNAKE F AND W	HISTORICAL	16,054	X	.05903	=	947	
	NEW 2/	15,299	X	.02926	=	447	
							1,394
MCNARY	HISTORICAL	165,428	X	.05720	=	9,464	
							9,464
MINIDOKA	HISTORICAL	11,869	X	.05921	=	703	
							703
THE DALLES	HISTORICAL	76,624	X	.05982	=	4,584	
	NEW 2/	80	X	.02785	=	2	
							4,586
YAKIMA-CHANDLER	HISTORICAL	262	X	.05769	=	16	
							16
YAKIMA-ROZA	HISTORICAL	17	X	.05813	=	1	
							1
IRRIGATION ASSISTANCE	HISTORICAL	300,846	X	.00000	=	0	
							0

							144,381

AFUDC

0

INTEREST INCOME	(REVENUE	-	A.O.	-	P.P.	-	BOND INT.)	X	RATE	X	0.5	-23,887
	(1,050,323	-	0	-	350,540	-	0)	X	.03413			-----

NET

120,494

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2024

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	1,267	X	.05757	=	73		73
BOISE	HISTORICAL	949	X	.05945	=	56		56
BONNEVILLE	HISTORICAL	517,332	X	.05818	=	30,097		30,097
CHIEF JOSEPH	HISTORICAL	133,799	X	.05941	=	7,949		7,949
COLUMBIA BASIN	HISTORICAL	451,280	X	.05936	=	26,785		26,785
COUGAR	HISTORICAL	158	X	.05851	=	9		9
	NEW 2/	129	X	.02873	=	3		12
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	146,602	X	.05862	=	8,594		8,594
DETROIT-BIG CLIFF	HISTORICAL	32,752	X	.05712	=	1,870		1,870
	NEW 2/	2,856	X	.02972	=	85		1,955
DWORSHAK	HISTORICAL	26,411	X	.05861	=	1,548		1,548
GREEN PETER-FOSTER	HISTORICAL	4,443	X	.05940	=	264		264
HILLS CREEK	HISTORICAL	390	X	.05949	=	23		23
HUNGRY HORSE	HISTORICAL	5,628	X	.05901	=	332		332
ICE HARBOR	HISTORICAL	93,336	X	.05641	=	5,265		5,265
JOHN DAY	HISTORICAL	35,702	X	.05929	=	2,117		2,117
LIBBY	HISTORICAL	41,507	X	.05930	=	2,460		2,460
LITTLE GOOSE	HISTORICAL	110,544	X	.05804	=	6,418		6,418
LOOKOUT POINT-DEXTER	HISTORICAL	1,261	X	.05719	=	72		72
LOST CREEK	HISTORICAL	3,175	X	.05946	=	188		188
LOWER GRANITE	HISTORICAL	89,581	X	.05810	=	5,204		5,204
	NEW 2/	27	X	.02777	=	1		5,205
LOWER MONUMENTAL	HISTORICAL	60,202	X	.05791	=	3,487		3,487
	NEW 2/	127	X	.02974	=	4		3,491

LOWER SNAKE F AND W	HISTORICAL	21,565	X	.05845	=	1,260	
							1,260
MCNARY	HISTORICAL	131,438	X	.05653	=	7,431	
							7,431
MINIDOKA	HISTORICAL	11,869	X	.05921	=	703	
							703
THE DALLES	HISTORICAL	13,984	X	.05813	=	814	
	NEW 2/	49	X	.02744	=	1	
							815
YAKIMA-CHANDLER	HISTORICAL	262	X	.05769	=	16	
							16
YAKIMA-ROZA	HISTORICAL	17	X	.05813	=	1	
							1
IRRIGATION ASSISTANCE	HISTORICAL	291,183	X	.00000	=	0	
							0

113,130

AFUDC

0

INTEREST INCOME	(REVENUE	-	A.O.	-	P.P.	-	BOND INT.)	X	RATE	X	0.5	-24,347
	(1,050,323	-	0	-	337,075	-	0)	X	.03413			-----

NET

88,783

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2025

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	1,267	X	.05757	=	73		
	NEW 2/	9,662	X	.02974	=	287		
								360
BOISE	HISTORICAL	875	X	.05945	=	52		52
BONNEVILLE	HISTORICAL	355,402	X	.05758	=	20,464		
	NEW 2/	31,148	X	.02777	=	865		
								21,329
CHIEF JOSEPH	HISTORICAL	55,298	X	.05930	=	3,279		3,279
COLUMBIA BASIN	HISTORICAL	344,733	X	.05931	=	20,447		20,447
COUGAR	HISTORICAL	287	X	.05803	=	17		17
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	20,689	X	.05325	=	1,102		1,102
DETROIT-BIG CLIFF	HISTORICAL	34,871	X	.05726	=	1,996		1,996
DWORSHAK	HISTORICAL	17,737	X	.05818	=	1,032		1,032
GREEN PETER-FOSTER	HISTORICAL	2,208	X	.05930	=	131		131
HILLS CREEK	HISTORICAL	1	X	.05864	=	0		0
HUNGRY HORSE	HISTORICAL	5,094	X	.05896	=	300		300
ICE HARBOR	HISTORICAL	80,779	X	.05593	=	4,518		
	NEW 2/	29,048	X	.02777	=	807		
								5,325
JOHN DAY	HISTORICAL	35,702	X	.05929	=	2,117		2,117
LIBBY	HISTORICAL	3,273	X	.05706	=	186		
	NEW 2/	8,945	X	.02973	=	266		
								452
LITTLE GOOSE	HISTORICAL	87,633	X	.05766	=	5,055		5,055
LOOKOUT POINT-DEXTER	HISTORICAL	1,261	X	.05719	=	72		
	NEW 2/	140	X	.02800	=	3		
								75
LOST CREEK	HISTORICAL	3,156	X	.05946	=	187		
	NEW 2/	6	X	.02815	=	0		
								187
LOWER GRANITE	HISTORICAL	70,411	X	.05772	=	4,063		

	NEW 2/	3,019	X	.02914	=	88	
							4,151
LOWER MONUMENTAL	HISTORICAL	49,665	X	.05758	=	2,861	
	NEW 2/	76	X	.02783	=	2	
							2,863
LOWER SNAKE F AND W	HISTORICAL	17,790	X	.05823	=	1,036	
	NEW 2/	642	X	.02777	=	18	
							1,054
MCNARY	HISTORICAL	123,491	X	.05634	=	6,958	
	NEW 2/	137,020	X	.02892	=	3,963	
							10,921
MINIDOKA	HISTORICAL	9,436	X	.05914	=	558	
							558
THE DALLES	HISTORICAL	13,984	X	.05813	=	814	
							814
YAKIMA-CHANDLER	HISTORICAL	194	X	.05707	=	12	
							12
YAKIMA-ROZA	HISTORICAL	12	X	.05757	=	1	
							1
IRRIGATION ASSISTANCE	HISTORICAL	270,111	X	.00000	=	0	
							0

83,630

AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-24,377
	(1,050,323 - 0 - 336,183 - 0) X .03413						-----
NET							59,253

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2026

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	1,267	X	.05757	=	73		73
BOISE	HISTORICAL	875	X	.05945	=	52		52
BONNEVILLE	HISTORICAL	297,224	X	.05721	=	17,003		19,001
	NEW 2/	72,812	X	.02744	=	1,998		
CHIEF JOSEPH	HISTORICAL	5,135	X	.05746	=	295		295
COLUMBIA BASIN	HISTORICAL	128,743	X	.05902	=	7,598		7,598
COUGAR	HISTORICAL	287	X	.05803	=	17		17
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	20,689	X	.05325	=	1,102		1,102
DETROIT-BIG CLIFF	HISTORICAL	32,054	X	.05707	=	1,828		1,829
	NEW 2/	32	X	.02815	=	1		
DWORSHAK	HISTORICAL	17,737	X	.05818	=	1,032		1,032
GREEN PETER-FOSTER	HISTORICAL	287	X	.05806	=	17		17
HILLS CREEK	HISTORICAL	1	X	.05864	=	0		0
HUNGRY HORSE	HISTORICAL	1,324	X	.05744	=	76		76
ICE HARBOR	HISTORICAL	80,779	X	.05593	=	4,518		4,780
	NEW 2/	9,324	X	.02815	=	262		
JOHN DAY	HISTORICAL	3,235	X	.05729	=	186		187
	NEW 2/	36	X	.02778	=	1		
LIBBY	HISTORICAL	12,141	X	.05884	=	714		915
	NEW 2/	6,798	X	.02954	=	201		
LITTLE GOOSE	HISTORICAL	77,734	X	.05743	=	4,466		4,466
LOOKOUT POINT-DEXTER	HISTORICAL	1,261	X	.05719	=	72		72
LOST CREEK	HISTORICAL	1,411	X	.05942	=	83		83
LOWER GRANITE	HISTORICAL	63,711	X	.05753	=	3,664		3,664

LOWER MONUMENTAL	HISTORICAL	41,923	X	.05722	=	2,400	
							2,400
LOWER SNAKE F AND W	HISTORICAL	17,790	X	.05823	=	1,036	
							1,036
MCNARY	HISTORICAL	123,491	X	.05634	=	6,958	
							6,958
MINIDOKA	HISTORICAL	8,295	X	.05909	=	490	
							490
THE DALLES	HISTORICAL	13,984	X	.05813	=	814	
							814
YAKIMA-CHANDLER	HISTORICAL	194	X	.05707	=	12	
	NEW 2/	607	X	.02956	=	18	
							30
YAKIMA-ROZA	HISTORICAL	12	X	.05757	=	1	
							1
IRRIGATION ASSISTANCE	HISTORICAL	251,823	X	.00000	=	0	
							0

							56,988
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-24,396
	(1,050,323 - 0 - 335,627 - 0) X .03413						-----
NET							32,592

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	HISTORICAL	149	X	.05641	=	8		
	NEW 2/	148	X	.02820	=	4		12
BOISE	HISTORICAL	14	X	.05692	=	1		
	NEW 2/	33,390	X	.02943	=	983		984
BONNEVILLE	HISTORICAL	138,590	X	.05470	=	7,582		
	NEW 2/	2,684	X	.02914	=	78		7,660
CHIEF JOSEPH	HISTORICAL	1,880	X	.05690	=	107		
	NEW 2/	64,729	X	.02974	=	1,925		2,032
COLUMBIA BASIN	HISTORICAL	2,241	X	.05692	=	127		
	NEW 2/	54,462	X	.02966	=	1,616		1,743
COUGAR	HISTORICAL	56	X	.05676	=	3		
	NEW 2/	3	X	.02777	=	0		3
COLUMBIA RIVER FISH MITIGATION	HISTORICAL	20,689	X	.05325	=	1,102		1,102
DETROIT-BIG CLIFF	HISTORICAL	71	X	.05615	=	4		4
DWORSHAK	HISTORICAL	3,625	X	.05684	=	206		206
GREEN PETER-FOSTER	HISTORICAL	59	X	.05581	=	3		
	NEW 2/	1,619	X	.02914	=	48		51
ICE HARBOR	HISTORICAL	72,684	X	.05559	=	4,041		
	NEW 2/	15,363	X	.02744	=	422		4,463
JOHN DAY	HISTORICAL	85	X	.05605	=	5		5
LIBBY	HISTORICAL	2,289	X	.05684	=	130		130
LITTLE GOOSE	HISTORICAL	4,710	X	.05641	=	267		
	NEW 2/	71	X	.02782	=	2		269
LOOKOUT POINT-DEXTER	HISTORICAL	190	X	.05609	=	10		
	NEW 2/	50	X	.02816	=	1		11
LOST CREEK	HISTORICAL	6	X	.05629	=	0		
	NEW 2/	737	X	.02970	=	21		21

LOWER GRANITE	HISTORICAL	21,064	X	.05688	=	1,197	
							1,197
LOWER MONUMENTAL	HISTORICAL	2,671	X	.05639	=	151	
							151
LOWER SNAKE F AND W	HISTORICAL	2,573	X	.05597	=	144	
							144
MCNARY	HISTORICAL	98,215	X	.05618	=	5,519	
	NEW 2/	32,342	X	.02820	=	912	
							6,431
MINIDOKA	HISTORICAL	258	X	.05686	=	15	
	NEW 2/	853	X	.02971	=	26	
							41
THE DALLES	HISTORICAL	5,776	X	.05670	=	328	
							328
YAKIMA-CHANDLER	HISTORICAL	67	X	.05607	=	4	
							4
YAKIMA-ROZA	HISTORICAL	3	X	.05692	=	0	
							0
IRRIGATION ASSISTANCE	HISTORICAL	232,947	X	.00000	=	0	
							0

							26,992

AFUDC

0

INTEREST INCOME	(REVENUE	-	A.O.	-	P.P.	-	BOND INT.)	X	RATE	X	0.5	
	(1,050,323	-	0	-	335,627	-	0)	X	.03413			-24,396

NET

2,596

- 0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
- P.P. = PURCHASE POWER
- 1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
- 2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2028

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
CHIEF JOSEPH	NEW 2/	14,258	X	.02973	=	424		424
COLUMBIA BASIN	NEW 2/	187,095	X	.02962	=	5,541		5,541
COUGAR	NEW 2/	4	X	.02785	=	0		0
GREEN PETER-FOSTER	NEW 2/	1,074	X	.02903	=	31		31
HUNGRY HORSE	NEW 2/	12,632	X	.02928	=	370		370
LITTLE GOOSE	NEW 2/	3,135	X	.02910	=	91		91
LOWER GRANITE	NEW 2/	1,992	X	.02972	=	59		59
LOWER SNAKE F AND W	NEW 2/	2,524	X	.02905	=	73		73
YAKIMA-ROZA	NEW 2/	62	X	.02974	=	2		2
IRRIGATION ASSISTANCE	HISTORICAL	105,263	X	.00000	=	0		0
								----- 6,591
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,396
	(1,050,323 - 0 - 335,627 - 0) X .03413							----- -17,805
NET								

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2029

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
BONNEVILLE	NEW 2/	4,519	X	.02785	=	126		126
DETROIT-BIG CLIFF	NEW 2/	26,839	X	.02847	=	765		765
DWORSHAK	NEW 2/	62	X	.02783	=	2		2
LOWER MONUMENTAL	NEW 2/	71,932	X	.02869	=	2,063		2,063
THE DALLES	NEW 2/	79,177	X	.02974	=	2,354		2,354
								----- 5,310
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,396
	(1,050,323 - 0 - 335,627 - 0) X .03413							----- -19,086

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2030

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	NEW 2/	2,932	X	.02930	= 86		86
GREEN PETER-FOSTER	NEW 2/	19	X	.02777	= 1		1
JOHN DAY	NEW 2/	8,707	X	.02916	= 254		254
LIBBY	NEW 2/	234	X	.02846	= 7		7
LOOKOUT POINT-DEXTER	NEW 2/	1,133	X	.02895	= 33		33
MCNARY	NEW 2/	24,913	X	.02850	= 710		710
							----- 1,091
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413						----- -23,339

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2031 GENERATION FY 2006 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
BONNEVILLE	NEW 2/	77,099	X .02752	= 2,122		2,122
DETROIT-BIG CLIFF	NEW 2/	3	X .02777	= 0		0
GREEN PETER-FOSTER	NEW 2/	15	X .02785	= 0		0
LITTLE GOOSE	NEW 2/	71,290	X .02866	= 2,043		2,043
LOWER GRANITE	NEW 2/	63	X .02782	= 2		2
LOWER SNAKE F AND W	NEW 2/	709	X .02814	= 20		20
THE DALLES	NEW 2/	90	X .02789	= 2		2
YAKIMA-CHANDLER	NEW 2/	1,090	X .02930	= 32		32
						----- 4,221
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5	(1,050,323 - 0 - 334,627 - 0) X .03413				----- -24,430
NET						-20,209

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2032

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
BOISE	NEW 2/	1,110	X	.02973	=	33		33
BONNEVILLE	NEW 2/	51,106	X	.02851	=	1,457		1,457
CHIEF JOSEPH	NEW 2/	6,329	X	.02910	=	184		184
ICE HARBOR	NEW 2/	78,331	X	.02823	=	2,212		2,212
LIBBY	NEW 2/	77	X	.02777	=	2		2
LOOKOUT POINT-DEXTER	NEW 2/	17	X	.02777	=	0		0
LOWER MONUMENTAL	NEW 2/	26	X	.02777	=	1		1
LOWER SNAKE F AND W	NEW 2/	642	X	.02777	=	18		18
MCNARY	NEW 2/	32	X	.02777	=	1		1
MINIDOKA	NEW 2/	2,791	X	.02928	=	82		82
								----- 3,990
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413							----- -20,440

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2033

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
DWORSHAK	NEW 2/	7,408	X .02867 =	213		213
HUNGRY HORSE	NEW 2/	7,711	X .02966 =	229		229
JOHN DAY	NEW 2/	31	X .02777 =	1		1
LOST CREEK	NEW 2/	1	X .02785 =	0		0
LOWER MONUMENTAL	NEW 2/	50	X .02785 =	1		1
LOWER SNAKE F AND W	NEW 2/	21,219	X .02962 =	628		628
THE DALLES	NEW 2/	26,204	X .02951 =	773		773
YAKIMA-ROZA	NEW 2/	123	X .02930 =	4		4
						----- 1,849
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -22,581

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2034

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
COUGAR	NEW 2/	2,906	X .02974 =	86		86
DETROIT-BIG CLIFF	NEW 2/	21,746	X .02953 =	642		642
ICE HARBOR	NEW 2/	13,297	X .02800 =	372		372
JOHN DAY	NEW 2/	5	X .02785 =	0		0
LITTLE GOOSE	NEW 2/	26	X .02777 =	1		1
THE DALLES	NEW 2/	4,365	X .02902 =	127		127
						----- 1,228
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -23,202
NET						

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2035 GENERATION FY 2006 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
+ ALBENI FALLS	NEW 2/	1,776	X .02924 =	52		52
LIBBY	NEW 2/	7,157	X .02973 =	213		213
LITTLE GOOSE	NEW 2/	45	X .02785 =	1		1
LOOKOUT POINT-DEXTER	NEW 2/	15,138	X .02970 =	448		448
LOWER GRANITE	NEW 2/	61,681	X .02875 =	1,773		1,773
MCNARY	NEW 2/	103,806	X .02865 =	2,974		2,974
						----- 5,461
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -18,969

NET
0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2036 GENERATION FY 2006 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
+ BONNEVILLE	NEW 2/	72,812	X	.02744	=	1,998		1,998
COUGAR	NEW 2/	4	X	.02785	=	0		0
DWORSHAK	NEW 2/	19	X	.02777	=	1		1
ICE HARBOR	NEW 2/	219	X	.02889	=	6		6
LIBBY	NEW 2/	2,962	X	.02856	=	85		85
THE DALLES	NEW 2/	53	X	.02777	=	1		1
YAKIMA-CHANDLER	NEW 2/	699	X	.02946	=	21		21
								----- 2,112
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413							----- -22,318
NET								

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2037

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
BONNEVILLE	NEW 2/	4,683	X .02787 =	131		131
CHIEF JOSEPH	NEW 2/	33,650	X .02968 =	998		998
COLUMBIA BASIN	NEW 2/	55,508	X .02972 =	1,650		1,650
DWORSHAK	NEW 2/	43	X .02785 =	1		1
GREEN PETER-FOSTER	NEW 2/	44	X .02792 =	2		2
HILLS CREEK	NEW 2/	1	X .02932 =	0		0
ICE HARBOR	NEW 2/	17,146	X .02764 =	474		474
LOST CREEK	NEW 2/	233	X .02955 =	7		7
MINIDOKA	NEW 2/	9,597	X .02969 =	285		285
						----- 3,548
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -20,882

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2038

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
CHIEF JOSEPH	NEW 2/	1,025	X .02879	= 29		29
COLUMBIA BASIN	NEW 2/	10,129	X .02906	= 295		295
DETROIT-BIG CLIFF	NEW 2/	30	X .02816	= 1		1
LITTLE GOOSE	NEW 2/	1,389	X .02817	= 39		39
LOWER GRANITE	NEW 2/	731	X .02864	= 21		21
LOWER SNAKE F AND W	NEW 2/	54	X .02744	= 1		1
YAKIMA-ROZA	NEW 2/	150	X .02969	= 4		4
						----- 390
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -24,040
NET						

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2039

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	NEW 2/	148	X	.02820	=	4	4
BONNEVILLE	NEW 2/	30,984	X	.02777	=	860	860
COUGAR	NEW 2/	200	X	.02911	=	5	5
GREEN PETER-FOSTER	NEW 2/	15	X	.02785	=	0	0
ICE HARBOR	NEW 2/	29,048	X	.02777	=	807	807
LIBBY	NEW 2/	77	X	.02777	=	2	2
LOOKOUT POINT-DEXTER	NEW 2/	61	X	.02808	=	1	1
LOWER GRANITE	NEW 2/	36	X	.02785	=	1	1
LOWER MONUMENTAL	NEW 2/	11,981	X	.02971	=	356	356
LOWER SNAKE F AND W	NEW 2/	765	X	.02778	=	21	21
MCNARY	NEW 2/	32,307	X	.02820	=	911	911
THE DALLES	NEW 2/	51,462	X	.02972	=	1,529	1,529
							----- 4,497
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413						----- -19,933
NET							

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2040 GENERATION FY 2006 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

+ PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
JOHN DAY	NEW 2/	639	X .02965 =	19		19
						----- 19
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -24,411
NET						

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

1

INTEREST CALCULATION FOR FY 2041

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
BONNEVILLE	NEW 2/	100,838	X	.02806	=	2,830		2,830
COUGAR	NEW 2/	3	X	.02777	=	0		0
DETROIT-BIG CLIFF	NEW 2/	636	X	.02974	=	19		19
LITTLE GOOSE	NEW 2/	14,186	X	.02974	=	422		422
LOST CREEK	NEW 2/	1	X	.02785	=	0		0
LOWER MONUMENTAL	NEW 2/	2,632	X	.02820	=	74		74
								----- 3,345
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413							----- -21,085

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2042

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
BONNEVILLE	NEW 2/	1,251	X .02846 =	36		36
DETROIT-BIG CLIFF	NEW 2/	5	X .02785 =	0		0
GREEN PETER-FOSTER	NEW 2/	151	X .02932 =	4		4
HILLS CREEK	NEW 2/	1,986	X .02974 =	59		59
ICE HARBOR	NEW 2/	52,890	X .02828 =	1,496		1,496
JOHN DAY	NEW 2/	54	X .02817 =	1		1
MINIDOKA	NEW 2/	2,215	X .02932 =	65		65
						----- 1,661
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -22,769

NET
 0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
 P.P. = PURCHASE POWER
 1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
 2/ INTEREST RATE REFLECTS PARTIAL YEAR
 1

INTEREST CALCULATION FOR FY 2043

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
DWORSHAK	NEW 2/	14,183	X .02972 =	422		422
GREEN PETER-FOSTER	NEW 2/	77	X .02932 =	2		2
HUNGRY HORSE	NEW 2/	8,659	X .02967 =	257		257
LITTLE GOOSE	NEW 2/	2,627	X .02820 =	74		74
LOOKOUT POINT-DEXTER	NEW 2/	6	X .02785 =	0		0
LOWER SNAKE F AND W	NEW 2/	11,434	X .02890 =	331		331
MCNARY	NEW 2/	67	X .02785 =	2		2
THE DALLES	NEW 2/	17,689	X .02974 =	525		525
						----- 1,613
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -22,817

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2044

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
COUGAR	NEW 2/	1,795	X .02970 =	53		53
DETROIT-BIG CLIFF	NEW 2/	32,737	X .02870 =	940		940
GREEN PETER-FOSTER	NEW 2/	19	X .02777 =	1		1
LOWER MONUMENTAL	NEW 2/	34,140	X .02848 =	972		972
THE DALLES	NEW 2/	49	X .02744 =	1		1
						----- 1,967
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -22,463

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2045

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	NEW 2/	67	X	.02845	=	2	2
BONNEVILLE	NEW 2/	4,519	X	.02785	=	126	126
DETROIT-BIG CLIFF	NEW 2/	3	X	.02777	=	0	0
DWORSHAK	NEW 2/	104	X	.02806	=	3	3
JOHN DAY	NEW 2/	3,150	X	.02866	=	90	90
LIBBY	NEW 2/	234	X	.02846	=	7	7
LOOKOUT POINT-DEXTER	NEW 2/	9,509	X	.02966	=	282	282
LOWER GRANITE	NEW 2/	10,559	X	.02958	=	312	312
MCNARY	NEW 2/	89,725	X	.02815	=	2,526	2,526
THE DALLES	NEW 2/	1,949	X	.02820	=	55	55
							----- 3,403
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413						----- -21,027

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2046

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
BONNEVILLE	NEW 2/	189,523	X .02852 =	5,405		5,405
ICE HARBOR	NEW 2/	41,741	X .02817 =	1,176		1,176
LIBBY	NEW 2/	11,958	X .02972 =	355		355
LITTLE GOOSE	NEW 2/	35,570	X .02849 =	1,013		1,013
LOOKOUT POINT-DEXTER	NEW 2/	17	X .02777 =	0		0
LOWER MONUMENTAL	NEW 2/	26	X .02777 =	1		1
LOWER SNAKE F AND W	NEW 2/	642	X .02777 =	18		18
MCNARY	NEW 2/	32	X .02777 =	1		1
YAKIMA-CHANDLER	NEW 2/	1,034	X .02960 =	31		31
						----- 8,000
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -16,430

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2047 GENERATION FY 2006 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
+								
BOISE	NEW 2/	1,151	X	.02961	=	34		34
BONNEVILLE	NEW 2/	17	X	.02974	=	1		1
CHIEF JOSEPH	NEW 2/	1,653	X	.02845	=	47		47
COLUMBIA BASIN	NEW 2/	215,163	X	.02962	=	6,375		6,375
GREEN PETER-FOSTER	NEW 2/	5,457	X	.02956	=	162		162
ICE HARBOR	NEW 2/	15,363	X	.02744	=	422		422
JOHN DAY	NEW 2/	31	X	.02777	=	1		1
LOST CREEK	NEW 2/	19	X	.02974	=	1		1
LOWER GRANITE	NEW 2/	59	X	.02799	=	2		2
LOWER SNAKE F AND W	NEW 2/	123	X	.02785	=	3		3
MINIDOKA	NEW 2/	4,788	X	.02970	=	143		143
THE DALLES	NEW 2/	80	X	.02785	=	2		2
								----- 7,193
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413							----- -17,237
NET								

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2048

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
CHIEF JOSEPH	NEW 2/	78,501	X	.02974	=	2,335		2,335
COLUMBIA BASIN	NEW 2/	61,863	X	.02974	=	1,840		1,840
COUGAR	NEW 2/	3	X	.02777	=	0		0
DWORSHAK	NEW 2/	11,596	X	.02908	=	337		337
GREEN PETER-FOSTER	NEW 2/	19,854	X	.02971	=	590		590
LITTLE GOOSE	NEW 2/	12,236	X	.02958	=	362		362
LOWER GRANITE	NEW 2/	11,223	X	.02974	=	334		334
LOWER SNAKE F AND W	NEW 2/	54	X	.02744	=	1		1
THE DALLES	NEW 2/	2,205	X	.02846	=	63		63
YAKIMA-ROZA	NEW 2/	246	X	.02973	=	7		7
								----- 5,869
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413							----- -18,561

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2049

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
BONNEVILLE	NEW 2/	164	X	.02820	=	5		5
LOST CREEK	NEW 2/	6	X	.02815	=	0		0
LOWER MONUMENTAL	NEW 2/	56,557	X	.02923	=	1,652		1,652
THE DALLES	NEW 2/	1,479	X	.02843	=	42		42
								----- 1,699
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413							----- -22,731

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2050

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
DETROIT-BIG CLIFF	NEW 2/	32	X	.02815	=	1	1
DWORSHAK	NEW 2/	19	X	.02777	=	1	1
ICE HARBOR	NEW 2/	7,875	X	.02785	=	219	219
JOHN DAY	NEW 2/	54,328	X	.02971	=	1,614	1,614
LOWER GRANITE	NEW 2/	19,857	X	.02847	=	565	565
THE DALLES	NEW 2/	53	X	.02777	=	1	1
							----- 2,401
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413						----- -22,029

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2051

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
ALBENI FALLS	NEW 2/	148	X .02820 =	4		4
BONNEVILLE	NEW 2/	72,939	X .02744 =	2,002		2,002
GREEN PETER-FOSTER	NEW 2/	19	X .02777 =	1		1
ICE HARBOR	NEW 2/	48	X .02932 =	1		1
LIBBY	NEW 2/	5,095	X .02896 =	148		148
LITTLE GOOSE	NEW 2/	45,883	X .02911 =	1,335		1,335
LOOKOUT POINT-DEXTER	NEW 2/	50	X .02816 =	1		1
MCNARY	NEW 2/	32,342	X .02820 =	912		912
						----- 4,404
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413					----- -20,026

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2052

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/	INTEREST	PREMIUM	TOTAL
BOISE	NEW 2/	24,348	X	.02932	=	714	714
BONNEVILLE	NEW 2/	79,104	X	.02974	=	2,353	2,353
COLUMBIA BASIN	NEW 2/	45,637	X	.02972	=	1,356	1,356
COUGAR	NEW 2/	4	X	.02785	=	0	0
DETROIT-BIG CLIFF	NEW 2/	3	X	.02777	=	0	0
HILLS CREEK	NEW 2/	1,018	X	.02974	=	31	31
ICE HARBOR	NEW 2/	30,971	X	.02777	=	861	861
LOST CREEK	NEW 2/	84	X	.02932	=	2	2
LOWER GRANITE	NEW 2/	27	X	.02777	=	1	1
MINIDOKA	NEW 2/	7,009	X	.02973	=	209	209
							----- 5,527
AFUDC							0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5						-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413						----- -18,903
NET							

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2053

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
BONNEVILLE	NEW 2/	35,503	X	.02778	=	986		986
CHIEF JOSEPH	NEW 2/	612	X	.02900	=	17		17
COLUMBIA BASIN	NEW 2/	57,155	X	.02930	=	1,675		1,675
DWORSHAK	NEW 2/	12,769	X	.02945	=	376		376
HUNGRY HORSE	NEW 2/	64,980	X	.02966	=	1,927		1,927
ICE HARBOR	NEW 2/	29,048	X	.02777	=	807		807
LIBBY	NEW 2/	77	X	.02777	=	2		2
LITTLE GOOSE	NEW 2/	43	X	.02932	=	1		1
LOOKOUT POINT-DEXTER	NEW 2/	17	X	.02777	=	0		0
LOWER GRANITE	NEW 2/	484	X	.02869	=	14		14
LOWER MONUMENTAL	NEW 2/	2,608	X	.02820	=	74		74
LOWER SNAKE F AND W	NEW 2/	3,146	X	.02867	=	90		90
MCNARY	NEW 2/	32	X	.02777	=	1		1
THE DALLES	NEW 2/	254	X	.02889	=	7		7
								----- 5,977
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413							----- -18,453
NET								

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2054 GENERATION FY 2006 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
+								
COUGAR	NEW 2/	49	X	.02846	=	1		1
DETROIT-BIG CLIFF	NEW 2/	5,888	X	.02891	=	171		171
JOHN DAY	NEW 2/	80	X	.02804	=	2		2
LOWER MONUMENTAL	NEW 2/	45	X	.02932	=	1		1
THE DALLES	NEW 2/	49	X	.02744	=	1		1
								----- 176
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-24,430
	(1,050,323 - 0 - 334,627 - 0) X .03413							----- -24,254
NET								

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M
P.P. = PURCHASE POWER
1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT
2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2055

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL		RATE 1/		INTEREST	PREMIUM	TOTAL
ALBENI FALLS	NEW 2/	3,919	X	.02920	=	114		114
COUGAR	NEW 2/	3	X	.02777	=	0		0
GREEN PETER-FOSTER	NEW 2/	15	X	.02785	=	0		0
LIBBY	NEW 2/	8,798	X	.02974	=	262		262
LITTLE GOOSE	NEW 2/	2,608	X	.02820	=	74		74
LOOKOUT POINT-DEXTER	NEW 2/	1,349	X	.02902	=	38		38
LOWER GRANITE	NEW 2/	49,265	X	.02901	=	1,429		1,429
LOWER SNAKE F AND W	NEW 2/	709	X	.02814	=	20		20
MCNARY	NEW 2/	90,923	X	.02849	=	2,590		2,590
THE DALLES	NEW 2/	90	X	.02789	=	2		2
								----- 4,529
AFUDC								0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5							-35,853
	(1,050,323 - 0 - 0 - 0) X .03413							----- -31,324

NET

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

INTEREST CALCULATION FOR FY 2056

GENERATION

FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

PROJECT	TYPE	PRINCIPAL	RATE 1/	INTEREST	PREMIUM	TOTAL
BONNEVILLE	NEW 2/	72,812	X .02744 =	1,998		1,998
ICE HARBOR	NEW 2/	5,098	X .02971 =	151		151
LIBBY	NEW 2/	18,459	X .02970 =	548		548
YAKIMA-CHANDLER	NEW 2/	4,951	X .02961 =	147		147
						----- 2,844
AFUDC						0
INTEREST INCOME	(REVENUE - A.O. - P.P. - BOND INT.) X RATE X 0.5					-35,853
	(1,050,323 - 0 - 0 - 0) X .03413					----- -33,009
NET						-33,009
0 GRAND TOTAL						6,360,507

0A.O. = ANNUAL OBLIGATIONS - CORPS/BUREAU O & M

P.P. = PURCHASE POWER

1/ WEIGHTED AVERAGE RATE OF INTEREST BY INVESTMENT

2/ INTEREST RATE REFLECTS PARTIAL YEAR

**Summary of Interest Expense
Generation
FY 2006 Current Repayment Study**

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BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	222,012	236,125	252,003	255,597	261,715	267,926	268,119	263,811	259,503	259,503
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BPA BORROWING

BPA PROGRAM	1,649	2,075	2,426	2,549	2,313	1,907	1,694	1,742	1,742	1,742
BPA CONSERVATION	38,869	40,109	40,144	34,435	34,435	34,435	34,435	34,435	34,435	28,907
FISH, WILDLIFE & ENV	8,936	10,848	12,944	15,351	16,498	18,752	20,937	22,028	20,638	20,638
BUREAU DIRECT FUND	12,250	15,370	21,325	27,491	32,605	35,589	37,842	39,969	38,469	38,469
IRRIGATION ASSISTANC										
PREMIUMS	4					2,062		243		127
0LESS										
0 AFUDC										
0 INTEREST INCOME	11,449	11,311	13,367	12,414	13,187	15,371	14,730	13,955	13,582	14,274
0TOTAL BPA BORROWING	50,259	57,091	63,472	67,412	72,664	77,374	80,178	84,462	81,702	75,609
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TOTALS	272,271	293,216	315,475	323,009	334,379	345,300	348,297	348,273	341,205	335,112

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
BUREAU OF RECLAMATION										
BOISE	254	254	252	250	248	246	244	270	298	298
COLUMBIA BASIN	1,453	1,453	1,453	3,293	5,133	5,133	5,133	6,457	14,390	20,965
COLUMBIA BASIN - 3RD	32,564	32,564	32,564	32,564	32,564	32,564	29,405	25,875	18,169	7,919
HUNGRY HORSE	582	582	582	636	690	690	690	690	690	567
MINIDOKA	3,724	3,719	3,710	3,705	3,700	3,695	3,690	3,932	4,176	4,176
YAKIMA-CHANDLER	63	63	63	63	63		8	16	16	16
YAKIMA-ROZA										1
TOTAL BUREAU	38,640	38,635	38,624	40,511	42,398	42,328	39,170	37,240	37,739	33,942
CORPS OF ENGINEERS										
ALBENI FALLS	184	183	183	183	183	219	256	256	256	256
BONNEVILLE	7,509	12,833	18,192	18,358	18,479	18,479	20,646	21,168	23,260	22,361
BONNEVILLE - 2ND POW	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	26,227	6,344
CHIEF JOSEPH	14,919	14,918	14,918	17,253	19,588	19,588	19,588	19,706	12,576	8,505
COUGAR	686	686	686	686	6	11	11	11	11	11
COLUMBIA RIVER FISH	68,007	68,007	68,007	68,007	68,007	68,007	68,007	68,007	68,007	68,007
DETROIT-BIG CLIFF	3	3	3	3	939	1,873	1,873	1,873	1,873	1,873
DWORSHAK	10,770	10,770	10,762	11,138	11,499	1,413	1,413	1,413	1,507	1,570
GREEN PETER-FOSTER	5	5	68	192	249	249	251	256	263	266
HILLS CREEK	686	686	686	2	2	2	2	2	2	2
ICE HARBOR FISH BYPA										
ICE HARBOR	4,851	5,874	7,923	5,665	5,660	5,660	5,811	4,903	5,507	4,914
JOHN DAY	9,148	9,148	7,544	6,244	2,420	2,739	3,773	3,773	3,774	3,777
LIBBY	16,366	16,719	17,072	17,072	17,041	17,048	11,487	2,941	2,943	2,919
LITTLE GOOSE FISH BY										
LITTLE GOOSE	8,687	10,022	11,359	10,144	7,313	7,313	8,294	9,275	6,060	6,469
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	5	5	6	6	6	40	77	77	77	77
LOST CREEK	995	995	996	996	996	996	996	478	118	116
LOWER GRANITE	11,984	11,985	11,967	12,301	12,635	8,879	6,728	6,729	3,983	4,238
LOWER MONUMENTAL	7,052	7,053	3,179	3,131	4,375	5,637	5,637	5,711	5,769	3,266
MCNARY	2,614	2,581	2,584	2,584	2,584	6,060	9,536	9,511	9,512	9,511
MCNARY FISH BYPASS										
STRUBE										
THE DALLES	10,506	7,728	6,815	6,822	6,831	4,734	4,738	4,738	4,996	5,337
TOTAL CORPS	201,204	206,428	209,177	207,014	205,040	195,174	195,351	187,055	176,721	149,819
LOWER SNAKE F AND W	16,806	16,824	16,842	16,986	17,130	17,133	17,137	17,137	17,194	16,517

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	256,650	261,887	264,643	264,511	264,568	254,635	251,658	241,432	231,654	200,278
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BPA BORROWING

BPA PROGRAM	1,742	1,742	1,742	1,742	1,742	1,088	1,088	1,088	1,088	1,088
BPA CONSERVATION	23,225	23,225	21,215	21,215	15,558	12,183	5,808	5,808	2,928	2,928
FISH, WILDLIFE & ENV	20,638	18,989	18,989	18,989	15,329	15,329	13,374	11,506	9,182	6,691
BUREAU DIRECT FUND	38,309	33,366	33,288	33,288	33,288	33,288	30,663	30,663	30,663	30,663
IRRIGATION ASSISTANC										
PREMIUMS	3,845	59								

0LESS

0 AFUDC

0 INTEREST INCOME	14,211	13,879	13,157	20,161	21,787	21,995	21,316	25,157	30,769	22,380
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0TOTAL BPA BORROWING	73,548	63,502	62,077	55,073	44,130	39,893	29,617	23,908	13,092	18,990
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TOTALS	330,198	325,389	326,720	319,584	308,698	294,528	281,275	265,340	244,746	219,268
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
BUREAU OF RECLAMATION										
BOISE	298	56	56	56	56	52	52	984		
COLUMBIA BASIN	20,965	20,470	21,689	25,177	26,785	20,447	7,598	1,743	5,541	
COLUMBIA BASIN - 3RD	903									
HUNGRY HORSE	567	108	108	220	332	300	76		370	
MINIDOKA	4,176	490	596	703	703	558	490	41		
YAKIMA-CHANDLER	16	16	16	16	16	12	30	4		
YAKIMA-ROZA	1	1	1	1	1	1	1		2	
TOTAL BUREAU	26,926	21,141	22,466	26,173	27,893	21,370	8,247	2,772	5,913	
CORPS OF ENGINEERS										
ALBENI FALLS	256	73	73	73	73	360	73	12		
BONNEVILLE	22,361	26,401	29,372	32,866	30,097	21,329	19,001	7,660		126
BONNEVILLE - 2ND POW	706									
CHIEF JOSEPH	8,505	7,936	7,936	7,942	7,949	3,279	295	2,032	424	
COUGAR	11	9	9	9	12	17	17	3		
COLUMBIA RIVER FISH	68,007	64,928	61,223	32,033	8,594	1,102	1,102	1,102		
DETROIT-BIG CLIFF	1,873	1,870	1,870	1,870	1,955	1,996	1,829	4		765
DWORSHAK	1,570	944	945	1,251	1,548	1,032	1,032	206		2
GREEN PETER-FOSTER	266	264	264	265	264	131	17	51	31	
HILLS CREEK	2		12	23	23					
ICE HARBOR FISH BYPA										
ICE HARBOR	4,887	4,883	5,938	5,308	5,265	5,325	4,780	4,463		
JOHN DAY	3,782	3,198	3,198	3,198	2,117	2,117	187	5		
LIBBY	2,124	2,399	2,460	2,460	2,460	452	915	130		
LITTLE GOOSE FISH BY										
LITTLE GOOSE	6,457	6,257	6,410	6,414	6,418	5,055	4,466	269	91	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	77	72	72	72	72	75	72	11		
LOST CREEK	116	107	148	188	188	187	83	21		
LOWER GRANITE	4,796	5,261	5,261	5,273	5,205	4,151	3,664	1,197	59	
LOWER MONUMENTAL	3,655	3,519	3,519	3,519	3,491	2,863	2,400	151		2,063
MCNARY	9,509	9,464	9,464	9,464	7,431	10,921	6,958	6,431		
MCNARY FISH BYPASS										
STRUBE										
THE DALLES	5,417	5,330	4,585	4,586	815	814	814	328		2,354
TOTAL CORPS	144,377	142,915	142,759	116,814	83,977	61,206	47,705	24,076	605	5,310
LOWER SNAKE F AND W	5,455	947	947	1,394	1,260	1,054	1,036	144	73	

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	176,758	165,003	166,172	144,381	113,130	83,630	56,988	26,992	6,591	5,310
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BPA BORROWING

BPA PROGRAM	1,088	534								
BPA CONSERVATION	2,480	71								
FISH, WILDLIFE & ENV	4,370	2,181								
BUREAU DIRECT FUND	30,663	20,061								
IRRIGATION ASSISTANC										
PREMIUMS	6,557	12,906								
0LESS										
0 AFUDC										
0 INTEREST INCOME	23,153	23,522	22,902	23,887	24,347	23,243	24,396	24,396	22,867	24,396
0TOTAL BPA BORROWING	22,005	12,231	-22,902	-23,887	-24,347	-23,243	-24,396	-24,396	-22,867	-24,396
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TOTALS	198,763	177,234	143,270	120,494	88,783	60,387	32,592	2,596	-16,276	-19,086

SUMMARY OF INTEREST EXPENSE

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
BUREAU OF RECLAMATION										
BOISE			33							
COLUMBIA BASIN								1,650	295	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				229						
MINIDOKA			82					285		
YAKIMA-CHANDLER		32					21			
YAKIMA-ROZA				4					4	
TOTAL BUREAU		32	115	233			21	1,935	299	
CORPS OF ENGINEERS										
ALBENI FALLS	86					52				4
BONNEVILLE		2,122	1,457				1,998	131		860
BONNEVILLE - 2ND POW										
CHIEF JOSEPH			184					998	29	
COUGAR					86					5
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF					642				1	
DWORSHAK				213			1	1		
GREEN PETER-FOSTER	1							2		
HILLS CREEK										
ICE HARBOR FISH BYPA			2,212		372		6	474		807
ICE HARBOR										
JOHN DAY	254			1						
LIBBY	7		2			213	85			2
LITTLE GOOSE FISH BY										
LITTLE GOOSE		2,043			1	1			39	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER	33					448				1
LOST CREEK								7		
LOWER GRANITE		2				1,773			21	1
LOWER MONUMENTAL			1	1						356
MCNARY	710		1			2,974				911
MCNARY FISH BYPASS										
STRUBE										
THE DALLES		2		773	127		1			1,529
TOTAL CORPS	1,091	4,169	3,857	988	1,228	5,461	2,091	1,613	90	4,476
LOWER SNAKE F AND W										
		20	18	628					1	21

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	1,091	4,221	3,990	1,849	1,228	5,461	2,112	3,548	390	4,497
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BPA BORROWING

BPA PROGRAM
 BPA CONSERVATION
 FISH, WILDLIFE & ENV
 BUREAU DIRECT FUND
 IRRIGATION ASSISTANC
 PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	24,430	22,901	24,430	24,430	23,433	24,430	24,430	23,430	24,430	24,430
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0TOTAL BPA BORROWING	-24,430	-22,901	-24,430	-24,430	-23,433	-24,430	-24,430	-23,430	-24,430	-24,430
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TOTALS	-23,339	-18,680	-20,440	-22,581	-22,205	-18,969	-22,318	-19,882	-24,040	-19,933
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
BUREAU OF RECLAMATION										
BOISE								34		
COLUMBIA BASIN								6,375	1,840	
COLUMBIA BASIN - 3RD										
HUNGRY HORSE				257						
MINIDOKA			65					143		
YAKIMA-CHANDLER							31			
YAKIMA-ROZA									7	
TOTAL BUREAU			65	257			31	6,552	1,847	
CORPS OF ENGINEERS										
ALBENI FALLS						2				
BONNEVILLE		2,830	36			126	5,405	1		5
BONNEVILLE - 2ND POW										
CHIEF JOSEPH								47	2,335	
COUGAR					53					
COLUMBIA RIVER FISH										
DETROIT-BIG CLIFF		19			940					
DWORSHAK				422		3			337	
GREEN PETER-FOSTER			4	2	1			162	590	
HILLS CREEK			59							
ICE HARBOR FISH BYPA			1,496				1,176	422		
ICE HARBOR										
JOHN DAY	19		1			90		1		
LIBBY						7	355			
LITTLE GOOSE FISH BY										
LITTLE GOOSE		422		74			1,013		362	
LOWER GRANITE FISH B										
LOWER MONUMENTAL FIS										
LOOKOUT POINT-DEXTER						282				
LOST CREEK								1		
LOWER GRANITE						312		2	334	
LOWER MONUMENTAL		74			972		1			1,652
MCNARY				2		2,526	1			
MCNARY FISH BYPASS										
STRUBE										
THE DALLES				525	1	55		2	63	42
TOTAL CORPS	19	3,345	1,596	1,025	1,967	3,403	7,951	638	4,021	1,699
LOWER SNAKE F AND W										
				331			18	3	1	

BONNEVILLE POWER ADM

TOTAL APPROPRIATIONS	19	3,345	1,661	1,613	1,967	3,403	8,000	7,193	5,869	1,699
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BPA BORROWING

BPA PROGRAM
 BPA CONSERVATION
 FISH, WILDLIFE & ENV
 BUREAU DIRECT FUND
 IRRIGATION ASSISTANC
 PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	23,275	24,430	24,430	23,306	24,430	24,430	23,074	24,430	24,430	23,636
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0TOTAL BPA BORROWING	-23,275	-24,430	-24,430	-23,306	-24,430	-24,430	-23,074	-24,430	-24,430	-23,636
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TOTALS	-23,256	-21,085	-22,769	-21,693	-22,463	-21,027	-15,074	-17,237	-18,561	-21,937
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

(ALL AMOUNTS IN \$1000)

	2050	2051	2052	2053	2054	2055	2056
BUREAU OF RECLAMATION							
BOISE			714				
COLUMBIA BASIN			1,356	1,675			
COLUMBIA BASIN - 3RD							
HUNGRY HORSE				1,927			
MINIDOKA			209				
YAKIMA-CHANDLER							147
YAKIMA-ROZA							
TOTAL BUREAU			2,279	3,602			147
CORPS OF ENGINEERS							
ALBENI FALLS		4				114	
BONNEVILLE		2,002	2,353	986			1,998
BONNEVILLE - 2ND POW							
CHIEF JOSEPH				17			
COUGAR					1		
COLUMBIA RIVER FISH							
DETROIT-BIG CLIFF	1				171		
DWORSHAK	1			376			
GREEN PETER-FOSTER		1					
HILLS CREEK			31				
ICE HARBOR FISH BYPA							
ICE HARBOR	219	1	861	807			151
JOHN DAY	1,614				2		
LIBBY		148		2		262	548
LITTLE GOOSE FISH BY							
LITTLE GOOSE		1,335		1		74	
LOWER GRANITE FISH B							
LOWER MONUMENTAL FIS							
LOOKOUT POINT-DEXTER		1				38	
LOST CREEK			2				
LOWER GRANITE	565		1	14		1,429	
LOWER MONUMENTAL				74	1		
MCNARY		912		1		2,590	
MCNARY FISH BYPASS							
STRUBE							
THE DALLES	1			7	1	2	
TOTAL CORPS	2,401	4,404	3,248	2,285	176	4,509	2,697
LOWER SNAKE F AND W				90		20	
BONNEVILLE POWER ADM							

TOTAL APPROPRIATIONS	2,401	4,404	5,527	5,977	176	4,529	2,844
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BPA BORROWING

BPA PROGRAM
 BPA CONSERVATION
 FISH, WILDLIFE & ENV
 BUREAU DIRECT FUND
 IRRIGATION ASSISTANC
 PREMIUMS

0LESS

0 AFUDC

0 INTEREST INCOME	24,430	24,430	23,361	24,430	24,430	35,027	35,853
0TOTAL BPA BORROWING	-24,430	-24,430	-23,361	-24,430	-24,430	-35,027	-35,853

TOTALS	-22,029	-20,026	-17,834	-18,453	-24,254	-30,498	-33,009
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SUMMARY OF INTEREST EXPENSE

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

	TOTALS
BUREAU OF RECLAMATION	
BOISE	7,517
COLUMBIA BASIN	242,867
COLUMBIA BASIN - 3RD	603,295
HUNGRY HORSE	21,531
MINIDOKA	84,188
YAKIMA-CHANDLER	1,358
YAKIMA-ROZA	343
TOTAL BUREAU	961,099
CORPS OF ENGINEERS	
ALBENI FALLS	12,547
BONNEVILLE	459,494
BONNEVILLE - 2ND POW	505,363
CHIEF JOSEPH	408,424
COUGAR	9,897
COLUMBIA RIVER FISH	1,392,904
DETROIT-BIG CLIFF	34,090
DWORSHAK	179,839
GREEN PETER-FOSTER	6,738
HILLS CREEK	9,082
ICE HARBOR FISH BYPA	
ICE HARBOR	155,269
JOHN DAY	184,117
LIBBY	300,299
LITTLE GOOSE FISH BY	
LITTLE GOOSE	219,008
LOWER GRANITE FISH B	
LOWER MONUMENTAL FIS	
LOOKOUT POINT-DEXTER	14,256
LOST CREEK	18,680
LOWER GRANITE	250,619
LOWER MONUMENTAL	153,498
MCNARY	223,355
MCNARY FISH BYPASS	
STRUBE	
THE DALLES	223,203
TOTAL CORPS	4,760,682
LOWER SNAKE F AND W	350,418
TOTAL APPROPRIATIONS	6,072,199
BONNEVILLE POWER ADM	

BPA BORROWING

BPA PROGRAM	35,611
BPA CONSERVATION	491,283
FISH, WILDLIFE & ENV	323,137
BUREAU DIRECT FUND	677,582
IRRIGATION ASSISTANC	
PREMIUMS	25,803
0LESS	
0 AFUDC	
0 INTEREST INCOME	1,248,167
0TOTAL BPA BORROWING	305,249

TOTALS	6,377,448

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**Application of Amortization
Generation
FY 2006 Current Repayment Study**

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APPLICATION OF AMORTIZATION

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2000	COLUMBIA BASIN	1995	2000	25	25	.06620		25
	HUNGRY HORSE	1995	2000	6	6	.06620	R	6
	HUNGRY HORSE	1995	2000	84	84	.06620		84
	BUREAU DIRECT FUND	1997	2000	50,000	50,000	.06500		50,000
	BPA PROGRAM	1995	2025	67	67	.07700		67
	LOWER MONUMENTAL	1996	2016	668	668	.07290		668
	JOHN DAY	1996	2016	1,072	1,072	.07290		1,072
	BONNEVILLE	1996	2016	834	834	.07290	R	834
	ALBENI FALLS	1996	2016	130	130	.07290		130
	LOWER GRANITE	1995	2017	458	458	.07290		458
	LOWER GRANITE	1995	2017	388	388	.07290		388
	LOWER GRANITE	1995	2017	77	77	.07290	R	77
	GREEN PETER-FOSTER	1967	2017	11,919	11,919	.07290		11,919
	COLUMBIA BASIN	1967	2017	758	758	.07290		758
	GREEN PETER-FOSTER	1987	2018	1	1	.07280		1
	GREEN PETER-FOSTER	1986	2018	3	3	.07280		3
	GREEN PETER-FOSTER	1985	2018	16	16	.07280		16
	GREEN PETER-FOSTER	1983	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1982	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1981	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1980	2018	40	40	.07280	R	40
	GREEN PETER-FOSTER	1979	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1978	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1977	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1976	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1975	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1974	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1973	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1972	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1971	2018	39	39	.07280	R	39
	GREEN PETER-FOSTER	1970	2018	40	40	.07280	R	40
	GREEN PETER-FOSTER	1969	2018	39	39	.07280	R	39
	JOHN DAY	1968	2018	21,686	21,686	.07280		21,686
	GREEN PETER-FOSTER	1968	2018	12,180	12,180	.07280		1,652
	TOTAL							90,431

APPLICATION OF AMORTIZATION

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2001	COLUMBIA BASIN	1956	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1956	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1957	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1957	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1958	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1958	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1959	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1959	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1960	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1960	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1961	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1961	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1962	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1962	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1963	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1963	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1964	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1964	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1965	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1965	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1966	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1966	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1967	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1967	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1968	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1968	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1969	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1969	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1970	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1970	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1971	2001	259	259	.06710	R	259
	COLUMBIA BASIN	1971	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1972	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1972	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1973	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1973	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1974	2001	258	258	.06710	R	258
	COLUMBIA BASIN	1974	2001	48	48	.06710	R	48
	COLUMBIA BASIN	1975	2001	258	258	.06710	R	258

APPLICATION OF AMORTIZATION

GENERATION FY 2006

REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
COLUMBIA BASIN	1975	2001	48	48	.06710	R	48
COLUMBIA BASIN	1976	2001	259	259	.06710	R	259
COLUMBIA BASIN	1976	2001	48	48	.06710	R	48
COLUMBIA BASIN	1977	2001	258	258	.06710	R	258
COLUMBIA BASIN	1977	2001	48	48	.06710	R	48
COLUMBIA BASIN	1978	2001	258	258	.06710	R	258
COLUMBIA BASIN	1978	2001	48	48	.06710	R	48
COLUMBIA BASIN	1979	2001	258	258	.06710	R	258
COLUMBIA BASIN	1979	2001	48	48	.06710	R	48
COLUMBIA BASIN	1980	2001	258	258	.06710	R	258
COLUMBIA BASIN	1980	2001	48	48	.06710	R	48
COLUMBIA BASIN	1981	2001	259	259	.06710	R	259
COLUMBIA BASIN	1981	2001	48	48	.06710	R	48
COLUMBIA BASIN	1982	2001	258	258	.06710	R	258
COLUMBIA BASIN	1982	2001	48	48	.06710	R	48
COLUMBIA BASIN	1983	2001	258	258	.06710	R	258
COLUMBIA BASIN	1983	2001	48	48	.06710	R	48
COLUMBIA BASIN	1985	2001	236	236	.06710		236
COLUMBIA BASIN	1985	2001	11	11	.06710		11
COLUMBIA BASIN	1955	2001	258	258	.06710	R	258
COLUMBIA BASIN	1954	2001	48	48	.06710	R	48
COLUMBIA BASIN	1954	2001	258	258	.06710	R	258
BOISE	1986	2001	89	89	.06710		89
COLUMBIA BASIN	1986	2001	127	127	.06710		127
COLUMBIA BASIN	1955	2001	48	48	.06710	R	48
COLUMBIA BASIN	1987	2001	13	13	.06710		13
COLUMBIA BASIN	1951	2001	7,719	7,719	.06710		7,719
COLUMBIA BASIN	1951	2001	1,437	1,437	.06710		1,437
COLUMBIA BASIN	1993	2001	45	45	.06710		45
COLUMBIA BASIN	1952	2001	258	258	.06710	R	258
COLUMBIA BASIN	1952	2001	48	48	.06710	R	48
COLUMBIA BASIN	1953	2001	258	258	.06710	R	258
COLUMBIA BASIN	1953	2001	48	48	.06710	R	48
GREEN PETER-FOSTER	1968	2018	12,180	10,528	.07280		10,528
ICE HARBOR	1995	2019	849	849	.07270		849
ICE HARBOR	1995	2019	171	171	.07270		171
ICE HARBOR	1995	2019	84	84	.07270		84
LOWER MONUMENTAL	1969	2019	25,083	25,083	.07270		22,681
TOTAL							53,787

APPLICATION OF AMORTIZATION GENERATION FY 2006 REPAYMENT STUDY FOR 2002 FINAL RATE PROPOSAL

YEAR -----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2002	BPA CONSERVATION	1989	2002	66,000	66,000	.08650		66,000
	LOWER MONUMENTAL	1969	2019	25,083	2,402	.07270		2,402
	JOHN DAY	1969	2019	96,104	96,104	.07270		38,999
	TOTAL							----- 107,401
2003	FISH, WILDLIFE & ENVIRONMENTAL	1999	2003	20,000	20,000	.06300		20,000
	BPA PROGRAM	1996	2003	5,622	5,622	.05900		5,622
	HUNGRY HORSE	1955	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	17	17	.06840	R	17
	HUNGRY HORSE	1956	2003	1	1	.06840	R	1
	HUNGRY HORSE	1957	2003	18	18	.06840	R	18
	HUNGRY HORSE	1957	2003	1	1	.06840	R	1
	HUNGRY HORSE	1958	2003	18	18	.06840	R	18
	HUNGRY HORSE	1958	2003	1	1	.06840	R	1
	HUNGRY HORSE	1959	2003	18	18	.06840	R	18
	HUNGRY HORSE	1959	2003	1	1	.06840	R	1
	HUNGRY HORSE	1960	2003	18	18	.06840	R	18
	HUNGRY HORSE	1960	2003	1	1	.06840	R	1
	HUNGRY HORSE	1961	2003	18	18	.06840	R	18
	HUNGRY HORSE	1961	2003	1	1	.06840	R	1
	HUNGRY HORSE	1962	2003	18	18	.06840	R	18
	HUNGRY HORSE	1962	2003	1	1	.06840	R	1
	HUNGRY HORSE	1963	2003	18	18	.06840	R	18
	HUNGRY HORSE	1963	2003	1	1	.06840	R	1
	HUNGRY HORSE	1964	2003	17	17	.06840	R	17
	HUNGRY HORSE	1964	2003	1	1	.06840	R	1
	HUNGRY HORSE	1965	2003	17	17	.06840	R	17
	HUNGRY HORSE	1965	2003	1	1	.06840	R	1
	HUNGRY HORSE	1966	2003	17	17	.06840	R	17
	HUNGRY HORSE	1966	2003	1	1	.06840	R	1
	HUNGRY HORSE	1967	2003	18	18	.06840	R	18
	HUNGRY HORSE	1967	2003	1	1	.06840	R	1
	HUNGRY HORSE	1968	2003	18	18	.06840	R	18
	HUNGRY HORSE	1968	2003	1	1	.06840	R	1
	HUNGRY HORSE	1953	2003	490	490	.06840		490
	HUNGRY HORSE	1953	2003	16,359	16,359	.06840		16,359
	DETROIT-BIG CLIFF	1953	2003	3,078	3,078	.06840		3,078
	HUNGRY HORSE	1969	2003	18	18	.06840	R	18

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
HUNGRY HORSE	1969	2003	1	1	.06840	R	1
HUNGRY HORSE	1955	2003	1	1	.06840	R	1
HUNGRY HORSE	1970	2003	18	18	.06840	R	18
HUNGRY HORSE	1970	2003	1	1	.06840	R	1
HUNGRY HORSE	1971	2003	18	18	.06840	R	18
HUNGRY HORSE	1971	2003	1	1	.06840	R	1
HUNGRY HORSE	1972	2003	18	18	.06840	R	18
HUNGRY HORSE	1972	2003	1	1	.06840	R	1
HUNGRY HORSE	1973	2003	18	18	.06840	R	18
HUNGRY HORSE	1973	2003	1	1	.06840	R	1
HUNGRY HORSE	1974	2003	17	17	.06840	R	17
HUNGRY HORSE	1974	2003	1	1	.06840	R	1
HUNGRY HORSE	1975	2003	17	17	.06840	R	17
HUNGRY HORSE	1975	2003	1	1	.06840	R	1
HUNGRY HORSE	1976	2003	10	10	.06840	R	10
HUNGRY HORSE	1976	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	17	17	.06840	R	17
HUNGRY HORSE	1977	2003	18	18	.06840	R	18
HUNGRY HORSE	1977	2003	1	1	.06840	R	1
HUNGRY HORSE	1954	2003	1	1	.06840	R	1
HUNGRY HORSE	1978	2003	18	18	.06840	R	18
HUNGRY HORSE	1978	2003	1	1	.06840	R	1
HUNGRY HORSE	1979	2003	18	18	.06840	R	18
HUNGRY HORSE	1979	2003	1	1	.06840	R	1
HUNGRY HORSE	1980	2003	18	18	.06840	R	18
HUNGRY HORSE	1980	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1981	2003	1	1	.06840	R	1
HUNGRY HORSE	1982	2003	1	1	.06840	R	1
HUNGRY HORSE	1983	2003	12	12	.06840	R	12
HUNGRY HORSE	1983	2003	1	1	.06840	R	1
JOHN DAY	1969	2019	96,104	57,105	.07270		26,922
TOTAL							72,984

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(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2004	DETROIT-BIG CLIFF	1956	2004	19	19	.06880	R	19
	BUREAU DIRECT FUND	1999	2004	20,000	20,000	.06400		20,000
	DETROIT-BIG CLIFF	1957	2004	18	18	.06880	R	18
	BPA PROGRAM	1997	2004	7,400	7,400	.06800		7,400
	DETROIT-BIG CLIFF	1958	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1959	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1960	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1961	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1962	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1963	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1964	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1965	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1966	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1967	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1968	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1969	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1970	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1971	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1972	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1973	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1974	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1975	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1976	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1954	2004	20,162	20,162	.06880		20,162
	DETROIT-BIG CLIFF	1977	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1978	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1979	2004	18	18	.06880	R	18
	MCNARY	1954	2004	35,757	35,757	.06880		35,757
	DETROIT-BIG CLIFF	1980	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1981	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1982	2004	19	19	.06880	R	19
	DETROIT-BIG CLIFF	1983	2004	18	18	.06880	R	18
	DETROIT-BIG CLIFF	1985	2004	6	6	.06880		6
	DETROIT-BIG CLIFF	1987	2004	3	3	.06880		3
	DETROIT-BIG CLIFF	1955	2004	18	18	.06880	R	18
	JOHN DAY	1969	2019	96,104	30,183	.07270		8,421
	TOTAL							92,285

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(ALL AMOUNT IN \$1000)

	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2005	MCNARY	1955	2005	53,493	53,493	.06910		53,493
	ALBENI FALLS	1956	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1956	2005	52	52	.06910	R	52
	ALBENI FALLS	1957	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1957	2005	51	51	.06910	R	51
	ALBENI FALLS	1958	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1958	2005	51	51	.06910	R	51
	ALBENI FALLS	1959	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1955	2005	28,417	28,417	.06910		28,417
	LOOKOUT POINT-DEXTER	1959	2005	51	51	.06910	R	51
	ALBENI FALLS	1960	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1960	2005	51	51	.06910	R	51
	ALBENI FALLS	1961	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1961	2005	52	52	.06910	R	52
	ALBENI FALLS	1962	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1962	2005	51	51	.06910	R	51
	ALBENI FALLS	1963	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1963	2005	51	51	.06910	R	51
	ALBENI FALLS	1964	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1964	2005	51	51	.06910	R	51
	ALBENI FALLS	1965	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1965	2005	51	51	.06910	R	51
	ALBENI FALLS	1966	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1966	2005	51	51	.06910	R	51
	ALBENI FALLS	1967	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1967	2005	52	52	.06910	R	52
	ALBENI FALLS	1968	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1968	2005	51	51	.06910	R	51
	ALBENI FALLS	1969	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1969	2005	51	51	.06910	R	51
	ALBENI FALLS	1970	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1970	2005	51	51	.06910	R	51
	ALBENI FALLS	1971	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1971	2005	51	51	.06910	R	51
	ALBENI FALLS	1972	2005	10	10	.06910	R	10
	LOOKOUT POINT-DEXTER	1972	2005	51	51	.06910	R	51
	ALBENI FALLS	1973	2005	11	11	.06910	R	11
	LOOKOUT POINT-DEXTER	1973	2005	52	52	.06910	R	52
	ALBENI FALLS	1974	2005	11	11	.06910	R	11

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
LOOKOUT POINT-DEXTER	1974	2005	51	51	.06910	R	51
ALBENI FALLS	1975	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1975	2005	51	51	.06910	R	51
ALBENI FALLS	1976	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1976	2005	51	51	.06910	R	51
ALBENI FALLS	1977	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1977	2005	51	51	.06910	R	51
ALBENI FALLS	1978	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1978	2005	51	51	.06910	R	51
ALBENI FALLS	1979	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1979	2005	52	52	.06910	R	52
ALBENI FALLS	1980	2005	11	11	.06910	R	11
ALBENI FALLS	1955	2005	16,854	16,854	.06910		16,854
LOOKOUT POINT-DEXTER	1980	2005	51	51	.06910	R	51
ALBENI FALLS	1981	2005	10	10	.06910	R	10
LOOKOUT POINT-DEXTER	1981	2005	51	51	.06910	R	51
ALBENI FALLS	1982	2005	11	11	.06910	R	11
LOOKOUT POINT-DEXTER	1982	2005	51	51	.06910	R	51
ALBENI FALLS	1983	2005	11	11	.06910	R	11
CHIEF JOSEPH	1955	2005	2,262	2,262	.06910		2,262
LOOKOUT POINT-DEXTER	1983	2005	51	51	.06910	R	51
ALBENI FALLS	1985	2005	7	7	.06910		7
LOOKOUT POINT-DEXTER	1985	2005	52	52	.06910		52
ALBENI FALLS	1986	2005	293	293	.06910		293
LOOKOUT POINT-DEXTER	1986	2005	42	42	.06910		42
ALBENI FALLS	1987	2005	12	12	.06910		12
LOOKOUT POINT-DEXTER	1987	2005	9	9	.06910		9
BPA PROGRAM	2000	2045	4,100	4,100	.07540		4,100
BUREAU DIRECT FUND	2000	2045	95,369	95,369	.07540		26,657
YAKIMA-ROZA	1987	2008	2	2	.07020		2
MINIDOKA	1987	2008	16	16	.07020		16
YAKIMA-ROZA	1986	2008	6	6	.07020		6
MINIDOKA	1986	2008	21	21	.07020		21
YAKIMA-ROZA	1985	2008	69	69	.07020		69
MINIDOKA	1985	2008	21	21	.07020		21
CHIEF JOSEPH	1985	2008	46	46	.07020		46
MINIDOKA	1983	2008	20	20	.07020	R	20
MINIDOKA	1983	2008	65	65	.07020	R	65
CHIEF JOSEPH	1983	2008	224	224	.07020	R	224

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
MINIDOKA	1982	2008	19	19	.07020	R	19
MINIDOKA	1982	2008	75	75	.07020	R	75
CHIEF JOSEPH	1982	2008	223	223	.07020	R	223
MINIDOKA	1981	2008	20	20	.07020	R	20
MINIDOKA	1981	2008	75	75	.07020	R	75
CHIEF JOSEPH	1981	2008	223	223	.07020	R	223
MINIDOKA	1980	2008	20	20	.07020	R	20
MINIDOKA	1980	2008	75	75	.07020	R	75
CHIEF JOSEPH	1980	2008	223	223	.07020	R	223
MINIDOKA	1979	2008	19	19	.07020	R	19
MINIDOKA	1979	2008	75	75	.07020	R	75
CHIEF JOSEPH	1979	2008	223	223	.07020	R	223
MINIDOKA	1978	2008	20	20	.07020	R	20
MINIDOKA	1978	2008	75	75	.07020	R	75
CHIEF JOSEPH	1978	2008	224	224	.07020	R	224
MINIDOKA	1977	2008	56	56	.07020	R	56
CHIEF JOSEPH	1977	2008	223	223	.07020	R	223
CHIEF JOSEPH	1976	2008	223	223	.07020	R	223
CHIEF JOSEPH	1975	2008	223	223	.07020	R	223
CHIEF JOSEPH	1974	2008	223	223	.07020	R	223
CHIEF JOSEPH	1973	2008	224	224	.07020	R	224
CHIEF JOSEPH	1972	2008	223	223	.07020	R	223
CHIEF JOSEPH	1971	2008	223	223	.07020	R	223
CHIEF JOSEPH	1970	2008	223	223	.07020	R	223
THE DALLES	1996	2008	196	196	.07020		196
CHIEF JOSEPH	1969	2008	223	223	.07020	R	223
CHIEF JOSEPH	1968	2008	224	224	.07020	R	224
CHIEF JOSEPH	1967	2008	223	223	.07020	R	223
CHIEF JOSEPH	1966	2008	223	223	.07020	R	223
CHIEF JOSEPH	1965	2008	223	223	.07020	R	223
CHIEF JOSEPH	1964	2008	223	223	.07020	R	223
CHIEF JOSEPH	1963	2008	224	224	.07020	R	224
CHIEF JOSEPH	1962	2008	223	223	.07020	R	223
CHIEF JOSEPH	1961	2008	223	223	.07020	R	223
CHIEF JOSEPH	1960	2008	223	223	.07020	R	223
CHIEF JOSEPH	1959	2008	223	223	.07020	R	223
YAKIMA-ROZA	1958	2008	161	161	.07020		161
YAKIMA-ROZA	1958	2008	533	533	.07020		533
THE DALLES	1958	2008	33,988	33,988	.07020		6,902

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(ALL AMOUNT IN \$1000)

	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	TOTAL							148,097
2006	CHIEF JOSEPH	1956	2006	13,643	13,643	.06950		13,643
	MCNARY	1956	2006	38,748	38,748	.06950		38,748
	BOISE	1996	2006	7	7	.06950		7
	MCNARY	1996	2006	778	778	.06950		778
	DETROIT-BIG CLIFF	1996	2006	24	24	.06950		24
	THE DALLES	1958	2008	33,988	27,086	.07020		27,086
	CHIEF JOSEPH	1958	2008	31,901	31,901	.07020		31,901
	MCNARY	1987	2007	24	24	.06980		24
	MCNARY	1986	2007	454	454	.06980		454
	MCNARY	1985	2007	557	557	.06980		557
	MCNARY	1983	2007	468	468	.06980	R	468
	MCNARY	1982	2007	467	467	.06980	R	467
	MCNARY	1981	2007	468	468	.06980	R	468
	MCNARY	1980	2007	468	468	.06980	R	468
	MCNARY	1979	2007	468	468	.06980	R	468
	MCNARY	1978	2007	468	468	.06980	R	468
	MCNARY	1977	2007	467	467	.06980	R	467
	MCNARY	1976	2007	468	468	.06980	R	468
	MCNARY	1975	2007	468	468	.06980	R	468
	MCNARY	1974	2007	468	468	.06980	R	468
	MCNARY	1973	2007	467	467	.06980	R	467
	MCNARY	1972	2007	468	468	.06980	R	468
	MCNARY	1971	2007	468	468	.06980	R	468
	MCNARY	1970	2007	468	468	.06980	R	468
	MCNARY	1969	2007	468	468	.06980	R	468
	MCNARY	1968	2007	468	468	.06980	R	468
	MCNARY	1967	2007	467	467	.06980	R	467
	MCNARY	1966	2007	468	468	.06980	R	468
	MCNARY	1965	2007	468	468	.06980	R	468
	MCNARY	1964	2007	468	468	.06980	R	468
	MCNARY	1963	2007	468	468	.06980	R	468
	MCNARY	1962	2007	467	467	.06980	R	467
	MCNARY	1961	2007	468	468	.06980	R	468
	MCNARY	1960	2007	468	468	.06980	R	468
	MCNARY	1959	2007	468	468	.06980	R	468
	MCNARY	1958	2007	468	468	.06980	R	468
	MCNARY	1957	2007	24,985	24,985	.06980		3,091

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YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	TOTAL							----- 128,476
2007	CHIEF JOSEPH	1957	2007	39,586	39,586	.06980		39,586
	MCNARY	1957	2007	24,985	21,894	.06980		21,894
	BOISE	1997	2007	9	9	.06950		9
	HUNGRY HORSE	1997	2007	154	154	.06950		154
	MINIDOKA	1997	2007	66	66	.06950		66
	FISH, WILDLIFE & ENVIRONMENTAL	1993	2008	20,000	20,000	.06950		20,000
	BUREAU DIRECT FUND	1998	2008	25,000	25,000	.06000		25,000
	TOTAL							----- 106,709
2008	BPA CONSERVATION	1998	2008	104,300	104,300	.05300		104,300
	BUREAU DIRECT FUND	2000	2045	95,369	68,712	.07540		1
	TOTAL							----- 104,301
2009	BPA CONSERVATION	1998	2009	37,700	37,700	.06000		37,700
	BPA CONSERVATION	1989	2009	40,000	40,000	.08550		40,000
	THE DALLES	1959	2009	40,415	40,415	.07060		40,415
	BUREAU DIRECT FUND	2000	2045	95,369	68,711	.07540		2,113
	TOTAL							----- 120,228
2010	MINIDOKA	2000	2010	81	81	.06520		81
	THE DALLES	1960	2010	39,179	39,179	.07090		39,179
	MCNARY	1995	2010	509	509	.07090		509
	ALBENI FALLS	1995	2010	17	17	.07090		17
	FISH, WILDLIFE & ENVIRONMENTAL	1995	2010	22,900	22,900	.07200		22,900
	BONNEVILLE	1995	2010	25	25	.07090	R	25
	CHIEF JOSEPH	1995	2010	15	15	.07090		15
	BUREAU DIRECT FUND	2000	2045	95,369	66,598	.07540		65,566
	TOTAL							----- 128,292
2011	BPA CONSERVATION	1996	2011	30,000	30,000	.06700		30,000
	MINIDOKA	2001	2011	80	80	.06190		80
	THE DALLES	1986	2011	95	95	.07130		95
	BOISE	2001	2011	4	4	.06190		4
	THE DALLES	1961	2011	9,492	9,492	.07130		9,492
	BOISE	2001	2011	27	27	.06190		27
	THE DALLES	1962	2011	56	56	.07130	R	56
	THE DALLES	1963	2011	57	57	.07130	R	57

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
THE DALLES	1964	2011	57	57	.07130	R	57
THE DALLES	1965	2011	56	56	.07130	R	56
THE DALLES	1966	2011	57	57	.07130	R	57
THE DALLES	1967	2011	57	57	.07130	R	57
DWORSHAK	1996	2011	107	107	.07130		107
THE DALLES	1968	2011	56	56	.07130	R	56
THE DALLES	1996	2011	457	457	.07130		457
MINIDOKA	1996	2011	54	54	.07130		54
THE DALLES	1969	2011	57	57	.07130	R	57
THE DALLES	1970	2011	57	57	.07130	R	57
THE DALLES	1971	2011	56	56	.07130	R	56
MCNARY	1996	2011	3	3	.07130		3
THE DALLES	1985	2011	95	95	.07130		95
THE DALLES	1972	2011	57	57	.07130	R	57
THE DALLES	1973	2011	57	57	.07130	R	57
THE DALLES	1974	2011	56	56	.07130	R	56
THE DALLES	1975	2011	57	57	.07130	R	57
LOWER GRANITE	1996	2011	255	255	.07130		255
THE DALLES	1976	2011	57	57	.07130	R	57
THE DALLES	1977	2011	56	56	.07130	R	56
THE DALLES	1978	2011	57	57	.07130	R	57
THE DALLES	1979	2011	57	57	.07130	R	57
THE DALLES	1980	2011	56	56	.07130	R	56
JOHN DAY	1996	2011	237	237	.07130		237
THE DALLES	1981	2011	57	57	.07130	R	57
THE DALLES	1987	2011	1,417	1,417	.07130		1,417
THE DALLES	1982	2011	57	57	.07130	R	57
THE DALLES	1983	2011	56	56	.07130	R	56
BUREAU DIRECT FUND	2000	2045	95,369	1,032	.07540		1,032
JOHN DAY	1969	2019	96,104	21,762	.07270		21,762
LOWER MONUMENTAL	1983	2020	214	214	.07250	R	214
GREEN PETER-FOSTER	1995	2020	11	11	.07250		11
GREEN PETER-FOSTER	1995	2020	24	24	.07250		24
BONNEVILLE	1995	2020	22	22	.07250	R	22
BONNEVILLE	1995	2020	20	20	.07250		20
LOWER MONUMENTAL	1982	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1981	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1980	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1979	2020	214	214	.07250	R	214

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+							
LOWER MONUMENTAL	1987	2020	3	3	.07250		3
LOWER MONUMENTAL	1978	2020	214	214	.07250	R	214
JOHN DAY	1995	2020	79	79	.07250		79
LOWER MONUMENTAL	1977	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1976	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1975	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1985	2020	8	8	.07250		8
LOWER MONUMENTAL	1974	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1973	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1972	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1971	2020	214	214	.07250	R	214
LOWER MONUMENTAL	1970	2020	51,218	51,218	.07250		50,557

TOTAL							119,869
2012							
ICE HARBOR	1986	2012	137	137	.07160		137
MINIDOKA	2002	2012	80	80	.05940		80
HILLS CREEK	1962	2012	9,264	9,264	.07160		9,264
ICE HARBOR	1962	2012	44,308	44,308	.07160		44,308
ICE HARBOR	1962	2012	493	493	.07160		493
HILLS CREEK	1963	2012	12	12	.07160	R	12
BOISE	2002	2012	27	27	.05940		27
ICE HARBOR	1963	2012	46	46	.07160	R	46
ICE HARBOR	1963	2012	1	1	.07160	R	1
HILLS CREEK	1964	2012	13	13	.07160	R	13
ICE HARBOR	1964	2012	46	46	.07160	R	46
ICE HARBOR	1964	2012	1	1	.07160	R	1
HILLS CREEK	1965	2012	13	13	.07160	R	13
ICE HARBOR	1965	2012	46	46	.07160	R	46
ICE HARBOR	1965	2012	1	1	.07160	R	1
HILLS CREEK	1966	2012	13	13	.07160	R	13
ICE HARBOR	1983	2012	1	1	.07160	R	1
ICE HARBOR	1983	2012	46	46	.07160	R	46
ICE HARBOR	1966	2012	46	46	.07160	R	46
ICE HARBOR	1966	2012	1	1	.07160	R	1
HILLS CREEK	1983	2012	13	13	.07160	R	13
HILLS CREEK	1967	2012	13	13	.07160	R	13
ICE HARBOR	1967	2012	46	46	.07160	R	46
ICE HARBOR	1967	2012	1	1	.07160	R	1
HILLS CREEK	1968	2012	13	13	.07160	R	13

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ICE HARBOR	1968	2012	46	46	.07160	R	46
ICE HARBOR	1968	2012	1	1	.07160	R	1
HILLS CREEK	1969	2012	13	13	.07160	R	13
ICE HARBOR	1969	2012	46	46	.07160	R	46
ICE HARBOR	1969	2012	1	1	.07160	R	1
HILLS CREEK	1970	2012	13	13	.07160	R	13
ICE HARBOR	1970	2012	46	46	.07160	R	46
ICE HARBOR	1970	2012	1	1	.07160	R	1
HILLS CREEK	1971	2012	13	13	.07160	R	13
HILLS CREEK	1985	2012	6	6	.07160		6
ICE HARBOR	1971	2012	46	46	.07160	R	46
ICE HARBOR	1971	2012	1	1	.07160	R	1
ICE HARBOR	1987	2012	3	3	.07160		3
HILLS CREEK	1972	2012	13	13	.07160	R	13
ICE HARBOR	1972	2012	46	46	.07160	R	46
ICE HARBOR	1972	2012	1	1	.07160	R	1
HILLS CREEK	1973	2012	13	13	.07160	R	13
ICE HARBOR	1973	2012	46	46	.07160	R	46
ICE HARBOR	1973	2012	1	1	.07160	R	1
ICE HARBOR	1982	2012	1	1	.07160	R	1
ICE HARBOR	1982	2012	46	46	.07160	R	46
HILLS CREEK	1974	2012	13	13	.07160	R	13
HILLS CREEK	1982	2012	13	13	.07160	R	13
ICE HARBOR	1974	2012	46	46	.07160	R	46
ICE HARBOR	1974	2012	1	1	.07160	R	1
HILLS CREEK	1975	2012	13	13	.07160	R	13
ICE HARBOR	1975	2012	46	46	.07160	R	46
ICE HARBOR	1975	2012	1	1	.07160	R	1
HILLS CREEK	1976	2012	13	13	.07160	R	13
ICE HARBOR	1976	2012	46	46	.07160	R	46
ICE HARBOR	1976	2012	1	1	.07160	R	1
HILLS CREEK	1977	2012	13	13	.07160	R	13
ICE HARBOR	1977	2012	46	46	.07160	R	46
ICE HARBOR	1977	2012	1	1	.07160	R	1
ICE HARBOR	1985	2012	41	41	.07160		41
HILLS CREEK	1978	2012	13	13	.07160	R	13
ICE HARBOR	1978	2012	46	46	.07160	R	46
ICE HARBOR	1978	2012	1	1	.07160	R	1
HILLS CREEK	1979	2012	13	13	.07160	R	13

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ICE HARBOR	1979	2012	46	46	.07160	R	46
ICE HARBOR	1979	2012	1	1	.07160	R	1
HILLS CREEK	1980	2012	13	13	.07160	R	13
ICE HARBOR	1980	2012	46	46	.07160	R	46
ICE HARBOR	1980	2012	1	1	.07160	R	1
ICE HARBOR	1981	2012	1	1	.07160	R	1
ICE HARBOR	1981	2012	46	46	.07160	R	46
HILLS CREEK	1981	2012	13	13	.07160	R	13
LOWER MONUMENTAL	1970	2020	51,218	661	.07250		661
LITTLE GOOSE	1970	2020	21,301	21,301	.07250		21,301
JOHN DAY	1970	2020	23,656	23,656	.07250		17,948
TOTAL							95,528
2013	BPA CONSERVATION	1998	2013	52,800	52,800	.05600	52,800
	FISH, WILDLIFE & ENVIRONMENTAL	1998	2013	60,000	60,000	.06100	60,000
	MINIDOKA	2003	2013	80	80	.05750	80
	BOISE	2003	2013	27	27	.05750	27
	BPA CONSERVATION	1993	2013	40,000	40,000	.06750	40,000
	JOHN DAY	1970	2020	23,656	5,708	.07250	5,708
	LOWER MONUMENTAL	1986	2020	132	132	.07250	132
	COUGAR	1981	2014	20	20	.07230	R 20
	COUGAR	1980	2014	20	20	.07230	R 20
	COUGAR	1979	2014	20	20	.07230	R 20
	COUGAR	1978	2014	20	20	.07230	R 20
	COUGAR	1977	2014	20	20	.07230	R 20
	COUGAR	1986	2014	104	104	.07230	104
	COUGAR	1976	2014	20	20	.07230	R 20
	COUGAR	1982	2014	20	20	.07230	R 20
	COUGAR	1975	2014	20	20	.07230	R 20
	COUGAR	1974	2014	19	19	.07230	R 19
	COUGAR	1973	2014	20	20	.07230	R 20
	COUGAR	1985	2014	1	1	.07230	1
	COUGAR	1972	2014	20	20	.07230	R 20
	COUGAR	1971	2014	20	20	.07230	R 20
	COUGAR	1970	2014	20	20	.07230	R 20
	COUGAR	1969	2014	20	20	.07230	R 20
	COUGAR	1983	2014	20	20	.07230	R 20
	COUGAR	1968	2014	20	20	.07230	R 20
	COUGAR	1987	2014	45	45	.07230	45

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COUGAR	1967	2014	20	20	.07230	R	20
COUGAR	1966	2014	20	20	.07230	R	20
COUGAR	1965	2014	20	20	.07230	R	20
COUGAR	1964	2014	9,042	9,042	.07230		9,042
LITTLE GOOSE	1980	2021	28	28	.07230	R	28
LITTLE GOOSE	1981	2021	29	29	.07230	R	29
LITTLE GOOSE	1979	2021	29	29	.07230	R	29
LITTLE GOOSE	1985	2021	174	174	.07230		174
LITTLE GOOSE	1978	2021	28	28	.07230	R	28
LITTLE GOOSE	1977	2021	29	29	.07230	R	29
LITTLE GOOSE	1976	2021	28	28	.07230	R	28
LITTLE GOOSE	1975	2021	29	29	.07230	R	29
LITTLE GOOSE	1987	2021	6	6	.07230		6
LITTLE GOOSE	1974	2021	28	28	.07230	R	28
LOWER MONUMENTAL	1996	2021	37	37	.07230		37
LOWER MONUMENTAL	1996	2021	51	51	.07230		51
LITTLE GOOSE	1973	2021	29	29	.07230	R	29
LITTLE GOOSE	1982	2021	28	28	.07230	R	28
LITTLE GOOSE	1972	2021	28	28	.07230	R	28
LITTLE GOOSE	1971	2021	42,962	42,962	.07230		42,962
JOHN DAY	1971	2021	34,974	34,974	.07230		34,974
DWORSHAK	1996	2021	26	26	.07230		26
DWORSHAK	1996	2021	184	184	.07230		184
LITTLE GOOSE	1983	2021	29	29	.07230	R	29
LITTLE GOOSE	1986	2021	239	239	.07230		239
LIBBY	1997	2022	432	432	.07230		432
BONNEVILLE	1997	2022	122	122	.07230		122
JOHN DAY	1997	2022	133	133	.07230		133
ICE HARBOR	1997	2022	66	66	.07230		66
JOHN DAY	1992	2022	19	19	.07210		19
JOHN DAY	1987	2022	706	706	.07210		706
JOHN DAY	1972	2022	11,502	11,502	.07210		11,357
TOTAL							260,148

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2014	BPA PROGRAM	1999	2014	11,080	11,080	.05900		11,080
	MINIDOKA	2004	2014	80	80	.05730		80
	BOISE	2004	2014	27	27	.05730		27
	BPA CONSERVATION	1994	2014	50,000	50,000	.06750		50,000
	JOHN DAY	1972	2022	11,502	145	.07210		145
	JOHN DAY	1990	2022	37	37	.07210		37
	JOHN DAY	1986	2022	3,227	3,227	.07210		3,227
	JOHN DAY	1985	2022	6,490	6,490	.07210		6,490
	JOHN DAY	1989	2022	30	30	.07210		30
	YAKIMA-CHANDLER	1961	2022	1	1	.07210	R	1
	YAKIMA-CHANDLER	1960	2022	1	1	.07210	R	1
	YAKIMA-CHANDLER	1959	2022	1	1	.07210	R	1
	YAKIMA-CHANDLER	1986	2022	455	455	.07210		455
	YAKIMA-CHANDLER	1956	2022	216	216	.07210		216
	YAKIMA-CHANDLER	1956	2022	193	193	.07210		193
	DWORSHAK	1979	2023	3	3	.07190	R	3
	DWORSHAK	1979	2023	518	518	.07190	R	518
	DWORSHAK	1978	2023	3	3	.07190	R	3
	DWORSHAK	1978	2023	518	518	.07190	R	518
	DWORSHAK	1977	2023	3	3	.07190	R	3
	DWORSHAK	1977	2023	518	518	.07190	R	518
	DWORSHAK	1976	2023	3	3	.07190	R	3
	DWORSHAK	1976	2023	518	518	.07190	R	518
	DWORSHAK	1975	2023	3	3	.07190	R	3
	DWORSHAK	1975	2023	518	518	.07190	R	518
	DWORSHAK	1982	2023	518	518	.07190	R	518
	DWORSHAK	1982	2023	3	3	.07190	R	3
	DWORSHAK	1974	2023	3	3	.07190	R	3
	DWORSHAK	1974	2023	515	515	.07190	R	515
	THE DALLES	1973	2023	21,983	21,983	.07190		21,983
	DWORSHAK	1973	2023	803	803	.07190		803
	DWORSHAK	1973	2023	132,996	132,996	.07190		132,996
	DWORSHAK	1980	2023	3	3	.07190	R	3
	DWORSHAK	1981	2023	3	3	.07190	R	3
	DWORSHAK	1980	2023	518	518	.07190	R	518
	DWORSHAK	1981	2023	518	518	.07190	R	518
	DWORSHAK	1987	2023	5	5	.07190		5
	DWORSHAK	1983	2023	523	523	.07190	R	523
	DWORSHAK	1983	2023	3	3	.07190	R	3

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DWORSHAK	1986	2023	197	197	.07190		197
DWORSHAK	1985	2023	1,141	1,141	.07190		1,141
THE DALLES	1974	2024	7,268	7,268	.07170		7,268
LOWER GRANITE	1987	2025	8	8	.07160		8
LOWER GRANITE	1977	2025	510	510	.07160	R	510
LOWER GRANITE	1980	2025	510	510	.07160	R	510
LOWER GRANITE	1976	2025	510	510	.07160	R	510
LOWER GRANITE	1985	2025	328	328	.07160		328
LOWER GRANITE	1981	2025	510	510	.07160	R	510
LOWER GRANITE	1975	2025	117,645	117,645	.07160		70,016
TOTAL							313,980
2015 FISH, WILDLIFE & ENVIRONMENTAL	2000	2015	27,000	27,000	.07240		27,000
BPA CONSERVATION	1995	2015	85,000	85,000	.07500		85,000
MINIDOKA	2005	2015	80	80	.05670		80
BOISE	2005	2015	27	27	.05670		27
BUREAU DIRECT FUND	1995	2015	35,000	35,000	.07500		35,000
LOWER GRANITE	1975	2025	117,645	47,629	.07160		47,629
LIBBY	1975	2025	48,138	48,138	.07160		48,138
COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	7,435	7,435	.07160		7,435
COLUMBIA BASIN - 3RD PWR HOUSE	1975	2025	36,690	36,690	.07160		36,690
LOWER GRANITE	1982	2025	510	510	.07160	R	510
LOWER GRANITE	1983	2025	510	510	.07160	R	510
LOWER GRANITE	1995	2025	96	96	.07160		96
LOWER GRANITE	1986	2025	215	215	.07160		215
LOWER GRANITE	1979	2025	510	510	.07160	R	510
LOWER GRANITE	1978	2025	510	510	.07160	R	510
LIBBY	1979	2026	1,465	1,465	.07150	R	1,465
LIBBY	1977	2026	1,465	1,465	.07150	R	1,465
LIBBY	1976	2026	153,432	153,432	.07150		34,378
TOTAL							326,658

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2016	FISH, WILDLIFE & ENVIRONMENTAL	2001	2016	27,000	27,000	.06920		27,000
	BONNEVILLE	2011	2016	72,812	72,812	.05488	R	72,812
	BOISE	2006	2016	27	27	.05610		27
	MINIDOKA	2006	2016	80	80	.05610		80
	LIBBY	1976	2026	153,432	119,054	.07150		119,054
	ICE HARBOR	1976	2026	228	228	.07150		228
	ICE HARBOR	1976	2026	20,472	20,472	.07150		20,472
	LIBBY	1978	2026	1,465	1,465	.07150	R	1,465
	COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	8,037	8,037	.07150		8,037
	COLUMBIA BASIN - 3RD PWR HOUSE	1976	2026	41,330	41,330	.07150		41,330
	LIBBY	1985	2026	518	518	.07150		518
	LIBBY	1980	2026	1,465	1,465	.07150	R	1,465
	COLUMBIA BASIN	1996	2026	76	76	.07150		76
	LIBBY	1981	2026	1,465	1,465	.07150	R	1,465
	LIBBY	1987	2026	2	2	.07150		2
	LIBBY	1982	2026	1,465	1,465	.07150	R	1,465
	ICE HARBOR	1985	2026	21	21	.07150		21
	MCNARY	1996	2026	74	74	.07150		74
	MCNARY	1996	2026	277	277	.07150		277
	LIBBY	1989	2026	1	1	.07150		1
	LIBBY	1983	2026	1,465	1,465	.07150	R	1,465
	LIBBY	1986	2026	283	283	.07150		283
	LOST CREEK	1978	2027	58	58	.07150	R	58
	LOST CREEK	1977	2027	13,413	13,413	.07150		7,928
	TOTAL							----- 305,603
2017	FISH, WILDLIFE & ENVIRONMENTAL	2002	2017	34,732	34,732	.06690		34,732
	BPA CONSERVATION	1996	2017	40,000	40,000	.07200		40,000
	ICE HARBOR	2012	2017	15,363	15,363	.05488	R	15,363
	LOST CREEK	1977	2027	13,413	5,485	.07150		5,485
	LOST CREEK	1981	2027	60	60	.07150	R	60
	COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	7,964	7,964	.07150		7,964
	COLUMBIA BASIN - 3RD PWR HOUSE	1977	2027	42,764	42,764	.07150		42,764
	CHIEF JOSEPH	1977	2027	30,512	30,512	.07150		30,512
	BONNEVILLE	1977	2027	15,670	15,670	.07150		15,670
	LOST CREEK	1985	2027	12	12	.07150		12
	LOST CREEK	1987	2027	4	4	.07150		4
	LOST CREEK	1980	2027	60	60	.07150	R	60
	LOST CREEK	1982	2027	60	60	.07150	R	60

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LOST CREEK	1983	2027	60	60	.07150	R	60
LOST CREEK	1986	2027	6	6	.07150		6
LOST CREEK	1979	2027	60	60	.07150	R	60
COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	7,896	7,896	.07150		7,896
COLUMBIA BASIN - 3RD PWR HOUSE	1978	2028	42,399	42,399	.07150		42,399
CHIEF JOSEPH	1978	2028	75,669	75,669	.07150		75,669
LITTLE GOOSE	1978	2028	49,578	49,578	.07150		49,578
LOWER GRANITE	1978	2028	40,611	40,611	.07150		40,611
LITTLE GOOSE	1985	2028	47	47	.07150		47
CHIEF JOSEPH	1985	2029	16,372	16,372	.07150		16,372
LOWER MONUMENTAL	1985	2029	256	256	.07150		256
LOWER GRANITE	1994	2029	1,551	1,551	.07150		1,551
COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	15,666	15,666	.07150		6,741
TOTAL							433,932
2018 FISH, WILDLIFE & ENVIRONMENTAL	2003	2018	38,317	38,317	.06500		38,317
LOWER SNAKE F AND W	2013	2018	54	54	.05488	R	54
MCNARY	2011	2018	32	32	.05554	R	32
LOWER SNAKE F AND W	2011	2018	642	642	.05554	R	642
LOWER MONUMENTAL	2011	2018	26	26	.05554	R	26
LOOKOUT POINT-DEXTER	2011	2018	17	17	.05554	R	17
LIBBY	2011	2018	77	77	.05554	R	77
ICE HARBOR	2011	2018	29,048	29,048	.05554	R	29,048
BONNEVILLE	2011	2018	30,984	30,984	.05554	R	30,984
COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	15,666	8,925	.07150		8,925
COLUMBIA BASIN - 3RD PWR HOUSE	1979	2029	84,118	84,118	.07150		84,118
LIBBY	1994	2029	152	152	.07150		152
CHIEF JOSEPH	1979	2029	60,079	60,079	.07150		60,079
CHIEF JOSEPH	1990	2029	4,505	4,505	.07150		4,505
CHIEF JOSEPH	1986	2029	5,363	5,363	.07150		5,363
CHIEF JOSEPH	1989	2029	2,227	2,227	.07150		2,227
CHIEF JOSEPH	1987	2029	3,036	3,036	.07150		3,036
LOWER MONUMENTAL	1979	2029	40,669	40,669	.07150		40,669
CHIEF JOSEPH	1988	2029	2,722	2,722	.07150		2,722
DWORSHAK	1995	2030	218	218	.07150		218
HUNGRY HORSE	1995	2030	1,195	1,195	.07150	R	1,195
LIBBY	1995	2030	15	15	.07150	R	15
LIBBY	1995	2030	41	41	.07150		41
LIBBY	1995	2030	94	94	.07150	R	94

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COLUMBIA BASIN	1995	2030	25	25	.07150		25
HUNGRY HORSE	1995	2030	536	536	.07150	R	536
COLUMBIA BASIN	1996	2031	109	109	.07150		109
LOST CREEK	1996	2031	31	31	.07150		31
COLUMBIA BASIN	1996	2031	251	251	.07150		251
LOWER GRANITE	1996	2031	206	206	.07150		206
ICE HARBOR	1996	2031	78	78	.07150		78
DWORSHAK	1996	2031	6	6	.07150		6
CHIEF JOSEPH	1996	2031	27	27	.07150	R	27
DWORSHAK	1996	2031	203	203	.07150		203
BONNEVILLE - 2ND POWER HOUSE	1981	2031	455	455	.07150		455
BONNEVILLE - 2ND POWER HOUSE	1981	2031	40,964	40,964	.07150		40,964
BONNEVILLE	1996	2031	22	22	.07150		22
BONNEVILLE - 2ND POWER HOUSE	1982	2032	203,535	203,535	.07150		203,535
BONNEVILLE - 2ND POWER HOUSE	1982	2032	2,264	2,264	.07150		2,264
MCNARY	1997	2032	30	30	.07150		30
BONNEVILLE	1997	2032	518	518	.07150		518
CHIEF JOSEPH	1997	2032	166	166	.07150		166
LOWER SNAKE F AND W	1983	2033	9,967	9,967	.07150		9,967
BONNEVILLE - 2ND POWER HOUSE	1986	2033	30,578	30,578	.07150		30,578
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	41,772	41,772	.07150		41,772
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	107	107	.07150		107
COLUMBIA BASIN - 3RD PWR HOUSE	1985	2033	2,060	2,060	.07150		2,060
COLUMBIA BASIN - 3RD PWR HOUSE	1990	2033	6,383	6,383	.07150		6,383
BONNEVILLE - 2ND POWER HOUSE	1983	2033	62,409	62,409	.07150		280
TOTAL							653,129
2019 THE DALLES	2014	2019	49	49	.05488	R	49
FISH, WILDLIFE & ENVIRONMENTAL	2004	2019	35,825	35,825	.06480		35,825
BPA CONSERVATION	1999	2019	6,000	6,000	.07470		6,000
MCNARY	2011	2019	67	67	.05571	R	67
JOHN DAY	2012	2019	31	31	.05554	R	31
LOOKOUT POINT-DEXTER	2011	2019	6	6	.05571	R	6
LITTLE GOOSE	2011	2019	45	45	.05571	R	45
BONNEVILLE - 2ND POWER HOUSE	1983	2033	62,409	62,129	.07150		62,129
BONNEVILLE - 2ND POWER HOUSE	1983	2033	694	694	.07150		694
COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	712	712	.07150		712
BONNEVILLE - 2ND POWER HOUSE	1990	2033	1,588	1,588	.07150		1,588
COLUMBIA BASIN - 3RD PWR HOUSE	1983	2033	13,003	13,003	.07150		13,003

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COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	16,965	16,965	.07150		16,965	
COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	1,730	1,730	.07150		1,730	
COLUMBIA BASIN - 3RD PWR HOUSE	1989	2033	10,902	10,902	.07150		10,902	
COLUMBIA BASIN - 3RD PWR HOUSE	1987	2033	14,439	14,439	.07150		14,439	
BONNEVILLE - 2ND POWER HOUSE	1989	2033	1,232	1,232	.07150		1,232	
BONNEVILLE - 2ND POWER HOUSE	1987	2033	2,801	2,801	.07150		2,801	
COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	15,538	15,538	.07150		15,538	
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	13,192	13,192	.07150		13,192	
COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	2,294	2,294	.07150		2,294	
BONNEVILLE - 2ND POWER HOUSE	1985	2033	9,138	9,138	.07150		9,138	
COLUMBIA BASIN - 3RD PWR HOUSE	1984	2033	3,160	3,160	.07150		3,160	
COLUMBIA BASIN - 3RD PWR HOUSE	1988	2033	4,351	4,351	.07150		4,351	
BONNEVILLE - 2ND POWER HOUSE	1988	2033	1,271	1,271	.07150		1,271	
COLUMBIA BASIN - 3RD PWR HOUSE	1986	2033	1,851	1,851	.07150		1,851	
JOHN DAY	1995	2035	22	22	.07150		22	
LOWER SNAKE F AND W	1985	2035	47,921	47,921	.07150		47,921	
JOHN DAY	1995	2035	121	121	.07150		121	
JOHN DAY	1995	2035	52	52	.07150		52	
LOWER MONUMENTAL	1996	2036	264	264	.07150	R	264	
LOWER SNAKE F AND W	1987	2037	72,536	72,536	.07150		72,536	
LOWER SNAKE F AND W	1988	2038	805	805	.07150		805	
LIBBY	1988	2038	14,781	14,781	.07150		14,781	
LITTLE GOOSE	1995	2040	17	17	.07150		17	
LITTLE GOOSE	1995	2040	450	450	.07150		450	
LITTLE GOOSE	1995	2040	733	733	.07150	R	733	
LOWER SNAKE F AND W	1990	2040	1,557	1,557	.07150		1,557	
ICE HARBOR	1996	2041	371	371	.07150	R	371	
LOWER SNAKE F AND W	1991	2041	4,411	4,411	.07150		4,411	
LOWER SNAKE F AND W	1993	2043	71,632	71,632	.07150		27,716	
TOTAL							390,770	
2020	FISH, WILDLIFE & ENVIRONMENTAL	2005	2020	33,988	33,988	.06440		33,988
	BPA CONSERVATION	2000	2020	32,555	32,555	.07400		32,555
	COUGAR	2012	2020	4	4	.05571	R	4
	LITTLE GOOSE	2013	2020	26	26	.05554	R	26
	COUGAR	2013	2020	3	3	.05554	R	3
	LOWER SNAKE F AND W	1993	2043	71,632	43,916	.07150		43,916
	COLUMBIA BASIN - 3RD PWR HOUSE	1994	2044	12,631	12,631	.07150		12,631
	CHIEF JOSEPH	1994	2044	4,017	4,017	.07150		4,017

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BONNEVILLE - 2ND POWER HOUSE	1994	2044	5,700	5,700	.07150		5,700
LOWER SNAKE F AND W	1994	2044	4,619	4,619	.07150		4,619
ALBENI FALLS	1995	2045	531	531	.07150		531
COLUMBIA BASIN	1995	2045	292	292	.07150	R	292
BONNEVILLE	1995	2045	410	410	.07150	R	410
JOHN DAY	1995	2045	608	608	.07150		608
BONNEVILLE	1995	2045	243	243	.07150		243
BONNEVILLE - 2ND POWER HOUSE	1995	2045	3,791	3,791	.07150		3,791
LOOKOUT POINT-DEXTER	1995	2045	33	33	.07150		33
LOOKOUT POINT-DEXTER	1995	2045	39	39	.07150		39
CHIEF JOSEPH	1995	2045	147	147	.07150		147
LOST CREEK	1995	2045	94	94	.07150		94
ALBENI FALLS	1995	2045	1,105	1,105	.07150		1,105
JOHN DAY	1995	2045	37	37	.07150		37
BONNEVILLE	1995	2045	440	440	.07150	R	440
LOWER MONUMENTAL	1995	2045	41	41	.07150		41
DETROIT-BIG CLIFF	1995	2045	38	38	.07150		38
LOWER MONUMENTAL	1995	2045	99	99	.07150		99
LOWER MONUMENTAL	1995	2045	624	624	.07150		624
LOWER MONUMENTAL	1995	2045	1,122	1,122	.07150	R	1,122
LOWER SNAKE F AND W	1995	2045	2,162	2,162	.07150		2,162
DWORSHAK	1995	2045	1,162	1,162	.07150		1,162
ALBENI FALLS	1995	2045	443	443	.07150		443
MCNARY	1995	2045	16	16	.07150		16
HUNGRY HORSE	1995	2045	6,190	6,190	.07150		6,190
COLUMBIA RIVER FISH MITIGATION	1995	2045	703	703	.07150		703
COLUMBIA BASIN	1995	2045	2,453	2,453	.07150		2,453
JOHN DAY	1995	2045	7,653	7,653	.07150	R	7,653
CHIEF JOSEPH	1995	2045	712	712	.07150	R	712
CHIEF JOSEPH	1995	2045	562	562	.07150		562
CHIEF JOSEPH	1995	2045	784	784	.07150		784
LITTLE GOOSE	1996	2046	10	10	.07150		10
DWORSHAK	1996	2046	3	3	.07150		3
LOWER SNAKE F AND W	1996	2046	10,185	10,185	.07150		10,185
DWORSHAK	1996	2046	4	4	.07150		4
LITTLE GOOSE	1996	2046	520	520	.07150	R	520
LITTLE GOOSE	1996	2046	211	211	.07150		211
BONNEVILLE	1996	2046	109	109	.07150		109
MCNARY	1996	2046	619	619	.07150		619

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LITTLE GOOSE	1996	2046	241	241	.07150		241
BONNEVILLE	1996	2046	223	223	.07150		223
LOST CREEK	1996	2046	24	24	.07150		24
DWORSHAK	1996	2046	46	46	.07150		46
LOWER GRANITE	1996	2046	625	625	.07150		625
BONNEVILLE	1996	2046	142	142	.07150		142
LOWER MONUMENTAL	1996	2046	10	10	.07150		10
CHIEF JOSEPH	1996	2046	3	3	.07150	R	3
THE DALLES	1996	2046	1,991	1,991	.07150		1,991
CHIEF JOSEPH	1996	2046	4	4	.07150	R	4
BONNEVILLE	1996	2046	1,322	1,322	.07150	R	1,322
COLUMBIA BASIN	1996	2046	368	368	.07150		368
CHIEF JOSEPH	1996	2046	729	729	.07150		729
CHIEF JOSEPH	1996	2046	355	355	.07150		355
COLUMBIA RIVER FISH MITIGATION	1996	2046	42,357	42,357	.07150		42,357
HUNGRY HORSE	1996	2046	2	2	.07150		2
HUNGRY HORSE	1996	2046	15	15	.07150		15
BONNEVILLE	1996	2046	751	751	.07150		751
GREEN PETER-FOSTER	1996	2046	26	26	.07150		26
LOWER GRANITE	1996	2046	9	9	.07150	R	9
HILLS CREEK	1996	2046	28	28	.07150		28
BOISE	1996	2046	450	450	.07150		450
LITTLE GOOSE	1996	2046	10	10	.07150	R	10
BOISE	1996	2046	656	656	.07150		656
BONNEVILLE - 2ND POWER HOUSE	1996	2046	376	376	.07150		376
BONNEVILLE	1996	2046	18	18	.07150		18
BONNEVILLE	1996	2046	18	18	.07150		18
BONNEVILLE	1996	2046	80	80	.07150		80
COLUMBIA BASIN	1996	2046	426	426	.07150		426
LITTLE GOOSE	1996	2046	3,909	3,909	.07150	R	3,909
DWORSHAK	1997	2047	7,588	7,588	.07150		7,588
COUGAR	1997	2047	26	26	.07150		26
LIBBY	1997	2047	660	660	.07150		660
ALBENI FALLS	1997	2047	477	477	.07150		477
HUNGRY HORSE	1997	2047	216	216	.07150		216
LITTLE GOOSE	1997	2047	1	1	.07150		1
BOISE	1997	2047	2,284	2,284	.07150		2,284
LOWER GRANITE	1997	2047	677	677	.07150		677
JOHN DAY	1997	2047	179	179	.07150		179

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BONNEVILLE	1997	2047	161	161	.07150		161
MINIDOKA	1997	2047	51,558	51,558	.07150		51,558
ICE HARBOR	1997	2047	67	67	.07150		67
CHIEF JOSEPH	1997	2047	657	657	.07150		657
COLUMBIA BASIN	1997	2047	3,393	3,393	.07150		3,393
LOWER SNAKE F AND W	1997	2047	2,173	2,173	.07150		2,173
BPA PROGRAM	2001	2046	7,600	7,600	.07290		7,600
BUREAU DIRECT FUND	2001	2046	76,100	76,100	.07290		76,100
BUREAU DIRECT FUND	2002	2047	89,855	89,855	.07080		71,375
TOTAL							462,060
2021 FISH, WILDLIFE & ENVIRONMENTAL	2006	2021	34,182	34,182	.06380		34,182
BPA CONSERVATION	2001	2021	1,000	1,000	.07110		1,000
LITTLE GOOSE	2011	2021	13	13	.05607	R	13
DWORSHAK	2013	2021	43	43	.05571	R	43
BONNEVILLE	2011	2021	127	127	.05607	R	127
BONNEVILLE	2016	2021	72,812	72,812	.05488	R	72,812
BONNEVILLE	2013	2021	4,519	4,519	.05571	R	4,519
BUREAU DIRECT FUND	2002	2047	89,855	18,480	.07080		18,480
BPA PROGRAM	2002	2047	2,100	2,100	.07080		2,100
BPA PROGRAM	2004	2049	1,400	1,400	.06900		1,400
BUREAU DIRECT FUND	2004	2049	61,700	61,700	.06900		61,700
BUREAU DIRECT FUND	2003	2048	86,650	86,650	.06890		86,650
BPA PROGRAM	2003	2048	1,400	1,400	.06890		1,400
BUREAU DIRECT FUND	2005	2050	62,100	62,100	.06880		62,100
BPA PROGRAM	2005	2050	1,400	1,400	.06880		1,400
BUREAU DIRECT FUND	2006	2051	62,100	62,100	.06850		62,100
BPA PROGRAM	2006	2051	1,400	1,400	.06850		1,400
BONNEVILLE	2001	2051	17,820	17,820	.06390		17,820
COLUMBIA BASIN	2001	2051	3,557	3,557	.06390		3,557
COLUMBIA BASIN	2001	2051	1,163	1,163	.06390		1,163
THE DALLES	2001	2051	12,528	12,528	.06390		12,528
COLUMBIA RIVER FISH MITIGATION	2001	2051	457,474	457,474	.06180		59,951
TOTAL							506,445

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2022	THE DALLES	2015	2022	53	53	.05554	R	53
	DWORSHAK	2015	2022	19	19	.05554	R	19
	ICE HARBOR	2012	2022	14,976	14,976	.05607	R	14,976
	ICE HARBOR	2017	2022	15,363	15,363	.05488	R	15,363
	COLUMBIA RIVER FISH MITIGATION	2001	2051	457,474	397,523	.06180		397,523
	BONNEVILLE	2002	2052	8,910	8,910	.06180		8,910
	COLUMBIA BASIN	2002	2052	1,162	1,162	.06180		1,162
	COLUMBIA RIVER FISH MITIGATION	2002	2052	111,042	111,042	.06180		74,812
	TOTAL							512,818
2023	LOWER SNAKE F AND W	2015	2023	123	123	.05571	R	123
	LOWER SNAKE F AND W	2013	2023	1,168	1,168	.05607	R	1,168
	THE DALLES	2015	2023	80	80	.05571	R	80
	LOWER GRANITE	2011	2023	23	23	.05641	R	23
	GREEN PETER-FOSTER	2015	2023	15	15	.05571	R	15
	GREEN PETER-FOSTER	2016	2023	19	19	.05554	R	19
	LOWER SNAKE F AND W	2018	2023	54	54	.05488	R	54
	DWORSHAK	2013	2023	207	207	.05607	R	207
	LOWER GRANITE	2015	2023	36	36	.05571	R	36
	COLUMBIA RIVER FISH MITIGATION	2002	2052	111,042	36,230	.06180		36,230
	LOWER SNAKE F AND W	2002	2052	794	794	.06180		794
	THE DALLES	2002	2052	12,528	12,528	.06180		12,528
	COLUMBIA RIVER FISH MITIGATION	2000	2050	4,541	4,541	.06125		4,541
	ICE HARBOR	2000	2050	696	696	.06125		696
	COLUMBIA BASIN	2000	2050	1,185	1,185	.06125		1,185
	BONNEVILLE	2000	2050	23,476	23,476	.06125		23,476
	LOWER GRANITE	2000	2050	1,261	1,261	.06125		1,261
	LOWER MONUMENTAL	2000	2050	521	521	.06125		521
	JOHN DAY	2000	2050	17,643	17,643	.06125		17,643
	MCNARY	2000	2050	937	937	.06125		937
	COLUMBIA BASIN	2000	2050	817	817	.06125		817
	COLUMBIA BASIN	2002	2027	507	507	.06120		507
	COLUMBIA BASIN	2004	2054	1,162	1,162	.06000		1,162
	COLUMBIA RIVER FISH MITIGATION	2004	2054	213,203	213,203	.06000		213,203
	MCNARY	2004	2054	7,000	7,000	.06000		7,000
	THE DALLES	2004	2054	12,528	12,528	.06000		12,528
	LOWER SNAKE F AND W	2001	2051	7,649	7,649	.05990		7,649
	BONNEVILLE	2003	2053	22,216	22,216	.05990		22,216
	COLUMBIA BASIN	2003	2053	1,161	1,161	.05990		1,161

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COLUMBIA RIVER FISH MITIGATION	2003	2053	44,682	44,682	.05990		44,682	
THE DALLES	2003	2053	12,528	12,528	.05990		12,528	
COLUMBIA BASIN	2005	2055	1,162	1,162	.05980		1,162	
COLUMBIA RIVER FISH MITIGATION	2005	2055	91,203	91,203	.05980		91,203	
MCNARY	2005	2055	17,000	17,000	.05980		17,000	
THE DALLES	2005	2055	12,528	12,528	.05980		12,528	
THE DALLES	2006	2056	12,528	12,528	.05950		12,528	
COLUMBIA BASIN	2006	2056	1,162	1,162	.05950		1,162	
MCNARY	2006	2056	17,000	17,000	.05950		9,053	
TOTAL							569,626	
2024	DETROIT-BIG CLIFF	2014	2024	36	36	.05607	R	36
	THE DALLES	2019	2024	49	49	.05488	R	49
	LOWER GRANITE	2017	2024	27	27	.05554	R	27
	DETROIT-BIG CLIFF	2017	2024	3	3	.05554	R	3
	MCNARY	2006	2056	17,000	7,947	.05950		7,947
	COLUMBIA RIVER FISH MITIGATION	2006	2056	125,913	125,913	.05950		125,913
	HUNGRY HORSE	2013	2043	534	534	.05949	R	534
	LOWER SNAKE F AND W	2013	2043	2,493	2,493	.05949	R	2,493
	DETROIT-BIG CLIFF	2014	2044	698	698	.05949	R	698
	BONNEVILLE	2011	2046	82,824	82,824	.05949	R	82,824
	ICE HARBOR	2011	2046	7,271	7,271	.05949	R	7,271
	LIBBY	2011	2046	11,804	11,804	.05949	R	11,804
	YAKIMA-CHANDLER	2016	2046	68	68	.05949	R	68
	BONNEVILLE	2012	2047	17	17	.05949	R	17
	BOISE	2017	2047	74	74	.05949	R	74
	MINIDOKA	2017	2047	99	99	.05949	R	99
	LOST CREEK	2012	2047	19	19	.05949	R	19
	LITTLE GOOSE	2013	2048	11,039	11,039	.05949	R	11,039
	CHIEF JOSEPH	2013	2048	78,501	78,501	.05949	R	78,501
	LOWER GRANITE	2013	2048	11,223	11,223	.05949	R	11,223
	COLUMBIA BASIN	2013	2048	61,863	61,863	.05949	R	61,863
	YAKIMA-ROZA	2018	2048	5	5	.05949	R	5
	LOWER MONUMENTAL	2014	2049	10,664	10,664	.05949	R	10,664
	LITTLE GOOSE	2011	2051	11,872	11,872	.05949	R	11,872
	BONNEVILLE	2017	2052	79,089	79,089	.05949	R	79,089
	COLUMBIA BASIN	2017	2052	44,684	44,684	.05949	R	44,684
	HILLS CREEK	2022	2052	389	389	.05949	R	389
	ICE HARBOR	2022	2052	407	407	.05949	R	407

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+							
LOWER SNAKE F AND W	2018	2053	1,282	1,282	.05949	R	1,282
DWORSHAK	2013	2053	8,674	8,674	.05949	R	8,674
LOWER GRANITE	2015	2055	7,947	7,947	.05949	R	7,947
LIBBY	2020	2055	8,798	8,798	.05949	R	8,798
ICE HARBOR	2016	2056	4,879	4,879	.05949	R	4,879
LIBBY	2016	2056	17,632	17,632	.05949	R	17,632
GREEN PETER-FOSTER	2012	2057	2,235	2,235	.05949	R	2,235
MINIDOKA	2022	2057	3,475	3,475	.05949	R	2,334

TOTAL							603,393
2025							
LOWER SNAKE F AND W	2018	2025	642	642	.05554	R	642
LOOKOUT POINT-DEXTER	2015	2025	123	123	.05607	R	123
LOWER MONUMENTAL	2018	2025	26	26	.05554	R	26
MCNARY	2015	2025	65,841	65,841	.05607	R	65,841
LOWER GRANITE	2015	2025	1,003	1,003	.05607	R	1,003
LOOKOUT POINT-DEXTER	2018	2025	17	17	.05554	R	17
MCNARY	2018	2025	32	32	.05554	R	32
BONNEVILLE	2013	2025	164	164	.05641	R	164
ICE HARBOR	2018	2025	29,048	29,048	.05554	R	29,048
LOWER MONUMENTAL	2017	2025	50	50	.05571	R	50
ALBENI FALLS	2015	2025	1	1	.05607	R	1
BONNEVILLE	2018	2025	30,984	30,984	.05554	R	30,984
LOST CREEK	2013	2025	5	5	.05641	R	5
LOST CREEK	2017	2025	1	1	.05571	R	1
LIBBY	2018	2025	77	77	.05554	R	77
MINIDOKA	2022	2057	3,475	1,141	.05949	R	1,141
LOST CREEK	2017	2057	1,745	1,745	.05949	R	1,745
LITTLE GOOSE	2018	2058	9,899	9,899	.05949	R	9,899
COLUMBIA BASIN	2018	2058	215,990	215,990	.05949	R	215,990
HUNGRY HORSE	2023	2058	3,770	3,770	.05949	R	3,770
GREEN PETER-FOSTER	2013	2058	1,921	1,921	.05949	R	1,921
LOWER GRANITE	2018	2058	8,716	8,716	.05949	R	8,716
CHIEF JOSEPH	2018	2058	50,163	50,163	.05949	R	50,163
LOWER MONUMENTAL	2019	2059	7,742	7,742	.05949	R	7,742
DETROIT-BIG CLIFF	2024	2059	2,817	2,817	.05949	R	2,817
JOHN DAY	2015	2060	32,467	32,467	.05949	R	32,467
MCNARY	2025	2060	71,147	71,147	.05949	R	71,147
ALBENI FALLS	2025	2060	9,661	9,661	.05949	R	9,661
BONNEVILLE	2021	2061	73,022	73,022	.05949	R	58,178

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TOTAL							603,371	
2026	BONNEVILLE	2021	2026	72,812	72,812	.05488	R	72,812
	DETROIT-BIG CLIFF	2018	2026	5	5	.05571	R	5
	ICE HARBOR	2018	2026	7,875	7,875	.05571	R	7,875
	JOHN DAY	2019	2026	31	31	.05554	R	31
	DETROIT-BIG CLIFF	2014	2026	27	27	.05641	R	27
	JOHN DAY	2018	2026	5	5	.05571	R	5
	LIBBY	2016	2026	77	77	.05607	R	77
	YAKIMA-CHANDLER	2016	2026	67	67	.05607	R	67
	BONNEVILLE	2021	2061	73,022	14,844	.05949	R	14,844
	YAKIMA-CHANDLER	2026	2061	540	540	.05949	R	540
	BOISE	2017	2062	861	861	.05949	R	861
	ICE HARBOR	2012	2062	4,428	4,428	.05949	R	4,428
	BONNEVILLE	2022	2062	70,689	70,689	.05949	R	70,689
	LOWER SNAKE F AND W	2023	2063	8,084	8,084	.05949	R	8,084
	THE DALLES	2018	2063	6,548	6,548	.05949	R	6,548
	LIBBY	2025	2065	8,868	8,868	.05949	R	8,868
	ICE HARBOR	2021	2066	31	31	.05949	R	31
	LOST CREEK	2022	2067	1,362	1,362	.05949	R	1,362
	MINIDOKA	2017	2067	5,402	5,402	.05949	R	5,402
	BONNEVILLE	2022	2067	65,325	65,325	.05949	R	65,325
	COLUMBIA BASIN	2023	2068	67,373	67,373	.05949	R	67,373
	LITTLE GOOSE	2023	2068	142	142	.05949	R	142
	LOWER MONUMENTAL	2024	2069	127	127	.05949	R	127
	LOWER MONUMENTAL	2019	2069	4,636	4,636	.05949	R	4,636
	LITTLE GOOSE	2021	2071	4,014	4,014	.05949	R	4,014
	DWORSHAK	2023	2073	1,966	1,966	.05949	R	1,966
	LOWER GRANITE	2025	2075	1,782	1,782	.05949	R	1,782
	ICE HARBOR	2026	2076	1,401	1,401	.05949	R	1,401
	LIBBY	2026	2076	3,761	3,761	.05949	R	3,761
	COLUMBIA BASIN	2003	2028	507	507	.05930		507
	COLUMBIA BASIN	2004	2029	507	507	.05930		507
	COLUMBIA BASIN	2005	2030	507	507	.05910		507
	HILLS CREEK	2012	2037	1	1	.05864	R	1
	ICE HARBOR	2012	2037	1,783	1,783	.05864	R	1,783
	COUGAR	2014	2039	151	151	.05864	R	151
	BONNEVILLE	2016	2041	2,922	2,922	.05864	R	2,922
	GREEN PETER-FOSTER	2017	2042	151	151	.05864	R	151

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MINIDOKA	2017	2042	2,215	2,215	.05864	R	2,215
GREEN PETER-FOSTER	2018	2043	77	77	.05864	R	77
LOWER MONUMENTAL	2019	2044	961	961	.05864	R	961
JOHN DAY	2020	2045	731	731	.05864	R	731
LITTLE GOOSE	2021	2046	1,100	1,100	.05864	R	1,100
COLUMBIA BASIN	2022	2047	50,909	50,909	.05864	R	50,909
DWORSHAK	2023	2048	8,301	8,301	.05864	R	8,301
LOWER GRANITE	2025	2050	234	234	.05864	R	234
ICE HARBOR	2026	2051	48	48	.05864	R	48
LIBBY	2026	2051	2,960	2,960	.05864	R	2,960
COLUMBIA BASIN	2006	2031	507	507	.05860		507
LITTLE GOOSE	2011	2031	33,953	33,953	.05778	R	33,953
DWORSHAK	2013	2033	3,845	3,845	.05778	R	3,845
HUNGRY HORSE	2013	2033	795	795	.05778	R	795
THE DALLES	2013	2033	254	254	.05778	R	254
DETROIT-BIG CLIFF	2014	2034	5,164	5,164	.05778	R	5,164
DETROIT-BIG CLIFF	2014	2034	334	334	.05778	R	334
MCNARY	2015	2035	1,392	1,392	.05778	R	1,392
LOWER GRANITE	2015	2035	40,279	40,279	.05778	R	40,279
LOOKOUT POINT-DEXTER	2015	2035	497	497	.05778	R	497
ALBENI FALLS	2015	2035	1,052	1,052	.05778	R	1,052
LOOKOUT POINT-DEXTER	2015	2035	85	85	.05778	R	85
ICE HARBOR	2016	2036	219	219	.05778	R	219
LIBBY	2016	2036	750	750	.05778	R	750
YAKIMA-CHANDLER	2016	2036	99	99	.05778	R	99
MINIDOKA	2017	2037	106	106	.05778	R	106
CHIEF JOSEPH	2017	2037	2,457	2,457	.05778	R	2,457
MINIDOKA	2017	2037	314	314	.05778	R	314
LOST CREEK	2017	2037	43	43	.05778	R	43
LOWER GRANITE	2018	2038	352	352	.05778	R	352
COLUMBIA BASIN	2018	2038	6,192	6,192	.05778	R	6,192
YAKIMA-ROZA	2018	2038	9	9	.05778	R	9
CHIEF JOSEPH	2018	2038	798	798	.05778	R	798
LITTLE GOOSE	2018	2038	218	218	.05778	R	218
LOWER MONUMENTAL	2019	2039	349	349	.05778	R	349
THE DALLES	2019	2039	1,406	1,406	.05778	R	1,406
BONNEVILLE	2021	2041	700	700	.05778	R	700
ICE HARBOR	2022	2042	1,634	1,634	.05778	R	1,634
LOWER SNAKE F AND W	2023	2043	5,870	5,870	.05778	R	5,870

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
COUGAR	2024	2044	80	80	.05778	R	80	
BONNEVILLE	2012	2027	1,251	1,251	.05692	R	1,251	
LOWER SNAKE F AND W	2013	2028	1,263	1,263	.05692	R	1,263	
HUNGRY HORSE	2013	2028	529	529	.05692	R	529	
DETROIT-BIG CLIFF	2014	2029	19	19	.05692	R	19	
LOWER MONUMENTAL	2014	2029	33,179	33,179	.05692	R	33,179	
DETROIT-BIG CLIFF	2014	2029	26,466	26,466	.05692	R	26,466	
JOHN DAY	2015	2030	2,241	2,241	.05692	R	2,241	
LIBBY	2015	2030	234	234	.05692	R	234	
JOHN DAY	2015	2030	178	178	.05692	R	178	
ALBENI FALLS	2015	2030	66	66	.05692	R	66	
LOOKOUT POINT-DEXTER	2015	2030	489	489	.05692	R	489	
MCNARY	2015	2030	23,884	23,884	.05692	R	23,884	
YAKIMA-CHANDLER	2016	2031	28	28	.05692	R	28	
BONNEVILLE	2016	2031	2,903	2,903	.05692	R	2,903	
LITTLE GOOSE	2016	2031	34,470	34,470	.05692	R	33,597	
TOTAL							663,228	
2027	LOOKOUT POINT-DEXTER	2015	2027	44	44	.05641	R	44
	LITTLE GOOSE	2020	2027	26	26	.05554	R	26
	COUGAR	2020	2027	3	3	.05554	R	3
	ALBENI FALLS	2015	2027	148	148	.05641	R	148
	ICE HARBOR	2022	2027	15,363	15,363	.05488	R	15,363
	MCNARY	2015	2027	32,275	32,275	.05641	R	32,275
	LITTLE GOOSE	2019	2027	45	45	.05571	R	45
	MINIDOKA	2017	2027	18	18	.05607	R	18
	LOOKOUT POINT-DEXTER	2019	2027	6	6	.05571	R	6
	MCNARY	2019	2027	67	67	.05571	R	67
	GREEN PETER-FOSTER	2017	2027	25	25	.05607	R	25
	CHIEF JOSEPH	2017	2027	46	46	.05607	R	46
	GREEN PETER-FOSTER	2027	2057	501	501	.05949	R	501
	CHIEF JOSEPH	2027	2062	64,683	64,683	.05949	R	64,683
	MINIDOKA	2027	2062	835	835	.05949	R	835
	COLUMBIA BASIN	2027	2067	49,177	49,177	.05949	R	49,177
	BONNEVILLE	2027	2072	1,082	1,082	.05949	R	1,082
	BONNEVILLE	2027	2077	336	336	.05949	R	336
	BOISE	2027	2077	8,883	8,883	.05949	R	8,883
	LOST CREEK	2027	2077	653	653	.05949	R	653
	BONNEVILLE	2027	2052	15	15	.05864	R	15

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
BOISE	2027	2052	24,348	24,348	.05864	R	24,348
LOST CREEK	2027	2052	84	84	.05864	R	84
BOISE	2027	2047	159	159	.05778	R	159
GREEN PETER-FOSTER	2027	2047	1,093	1,093	.05778	R	1,093
COLUMBIA BASIN	2027	2047	5,285	5,285	.05778	R	5,285
LITTLE GOOSE	2016	2031	34,470	873	.05692	R	873
MINIDOKA	2017	2032	143	143	.05692	R	143
CHIEF JOSEPH	2017	2032	1,607	1,607	.05692	R	1,607
BOISE	2017	2032	14	14	.05692	R	14
THE DALLES	2018	2033	2,205	2,205	.05692	R	2,205
YAKIMA-ROZA	2018	2033	3	3	.05692	R	3
DWORSHAK	2018	2033	3,295	3,295	.05692	R	3,295
THE DALLES	2019	2034	1,429	1,429	.05692	R	1,429
LOWER GRANITE	2020	2035	19,623	19,623	.05692	R	19,623
LIBBY	2021	2036	2,135	2,135	.05692	R	2,135
COLUMBIA BASIN	2022	2037	953	953	.05692	R	953
MINIDOKA	2022	2037	97	97	.05692	R	97
CHIEF JOSEPH	2023	2038	227	227	.05692	R	227
LOWER GRANITE	2023	2038	352	352	.05692	R	352
COLUMBIA BASIN	2023	2038	1,288	1,288	.05692	R	1,288
COUGAR	2024	2039	49	49	.05692	R	49
BONNEVILLE	2027	2042	1,251	1,251	.05692	R	1,251
LOWER MONUMENTAL	2017	2029	2,582	2,582	.05641	R	2,582
JOHN DAY	2018	2030	49	49	.05641	R	49
LITTLE GOOSE	2019	2031	2,582	2,582	.05641	R	2,582
LOWER SNAKE F AND W	2019	2031	586	586	.05641	R	586
THE DALLES	2019	2031	10	10	.05641	R	10
DWORSHAK	2021	2033	61	61	.05641	R	61
THE DALLES	2021	2033	1,949	1,949	.05641	R	1,949
ICE HARBOR	2022	2034	5,422	5,422	.05641	R	5,422
LOWER GRANITE	2023	2035	23	23	.05641	R	23
BONNEVILLE	2025	2037	164	164	.05641	R	164
LOST CREEK	2025	2037	5	5	.05641	R	5
DETROIT-BIG CLIFF	2026	2038	27	27	.05641	R	27
LOOKOUT POINT-DEXTER	2027	2039	44	44	.05641	R	44
MCNARY	2027	2039	32,275	32,275	.05641	R	32,275
ALBENI FALLS	2027	2039	148	148	.05641	R	148
LITTLE GOOSE	2018	2028	1,171	1,171	.05607	R	1,171
LOWER MONUMENTAL	2019	2029	13	13	.05607	R	13

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THE DALLES	2019	2029	1	1	.05607	R	1
LITTLE GOOSE	2021	2031	13	13	.05607	R	13
BONNEVILLE	2021	2031	127	127	.05607	R	127
ICE HARBOR	2022	2032	14,976	14,976	.05607	R	14,976
LOWER SNAKE F AND W	2023	2033	1,168	1,168	.05607	R	1,168
DWORSHAK	2023	2033	207	207	.05607	R	207
DETROIT-BIG CLIFF	2024	2034	36	36	.05607	R	36
LOOKOUT POINT-DEXTER	2025	2035	123	123	.05607	R	123
MCNARY	2025	2035	65,841	65,841	.05607	R	65,841
LOWER GRANITE	2025	2035	1,003	1,003	.05607	R	1,003
ALBENI FALLS	2025	2035	1	1	.05607	R	1
LIBBY	2026	2036	77	77	.05607	R	77
YAKIMA-CHANDLER	2026	2036	67	67	.05607	R	67
CHIEF JOSEPH	2027	2037	46	46	.05607	R	46
GREEN PETER-FOSTER	2027	2037	25	25	.05607	R	25
MINIDOKA	2027	2037	18	18	.05607	R	18
COUGAR	2020	2028	4	4	.05571	R	4
DWORSHAK	2021	2029	43	43	.05571	R	43
BONNEVILLE	2021	2029	4,519	4,519	.05571	R	4,519
LOWER GRANITE	2023	2031	36	36	.05571	R	36
LOWER SNAKE F AND W	2023	2031	123	123	.05571	R	123
THE DALLES	2023	2031	80	80	.05571	R	80
GREEN PETER-FOSTER	2023	2031	15	15	.05571	R	15
LOWER MONUMENTAL	2025	2033	50	50	.05571	R	50
LOST CREEK	2025	2033	1	1	.05571	R	1
ICE HARBOR	2026	2034	7,875	7,875	.05571	R	7,875
DETROIT-BIG CLIFF	2026	2034	5	5	.05571	R	5
JOHN DAY	2026	2034	5	5	.05571	R	5
MCNARY	2027	2035	67	67	.05571	R	67
LOOKOUT POINT-DEXTER	2027	2035	6	6	.05571	R	6
LITTLE GOOSE	2027	2035	45	45	.05571	R	45
DWORSHAK	2022	2029	19	19	.05554	R	19
THE DALLES	2022	2029	53	53	.05554	R	53
GREEN PETER-FOSTER	2023	2030	19	19	.05554	R	19
LOWER GRANITE	2024	2031	27	27	.05554	R	27
DETROIT-BIG CLIFF	2024	2031	3	3	.05554	R	3
LOWER SNAKE F AND W	2025	2032	642	642	.05554	R	642
BONNEVILLE	2025	2032	30,984	30,984	.05554	R	30,984
LIBBY	2025	2032	77	77	.05554	R	77

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LOOKOUT POINT-DEXTER	2025	2032	17	17	.05554	R	17
ICE HARBOR	2025	2032	29,048	29,048	.05554	R	29,048
MCNARY	2025	2032	32	32	.05554	R	32
LOWER MONUMENTAL	2025	2032	26	26	.05554	R	26
JOHN DAY	2026	2033	31	31	.05554	R	31
LITTLE GOOSE	2027	2034	26	26	.05554	R	26
COUGAR	2027	2034	3	3	.05554	R	3
LOWER SNAKE F AND W	2023	2028	54	54	.05488	R	54
THE DALLES	2024	2029	49	49	.05488	R	49
BONNEVILLE	2026	2031	72,812	72,812	.05488	R	72,812
ICE HARBOR	2027	2032	15,363	15,363	.05488	R	15,363
BONNEVILLE	1999	2044	29,984	29,984	.05325		29,984
COLUMBIA RIVER FISH MITIGATION	1999	2049	20,689	20,689	.05325		20,689
TOTAL							584,416
2028							
GREEN PETER-FOSTER	2028	2058	181	181	.05949	R	181
YAKIMA-ROZA	2028	2063	62	62	.05949	R	62
LOWER SNAKE F AND W	2028	2073	1,207	1,207	.05949	R	1,207
LOWER GRANITE	2028	2078	1,860	1,860	.05949	R	1,860
LITTLE GOOSE	2028	2078	1,921	1,921	.05949	R	1,921
COLUMBIA BASIN	2028	2078	131,228	131,228	.05949	R	131,228
CHIEF JOSEPH	2028	2078	13,873	13,873	.05949	R	13,873
LITTLE GOOSE	2028	2053	43	43	.05864	R	43
HUNGRY HORSE	2028	2053	12,103	12,103	.05864	R	12,103
LOWER GRANITE	2028	2053	132	132	.05864	R	132
COLUMBIA BASIN	2028	2053	55,867	55,867	.05864	R	55,867
CHIEF JOSEPH	2028	2053	385	385	.05864	R	385
GREEN PETER-FOSTER	2028	2048	893	893	.05778	R	893
HUNGRY HORSE	2028	2043	529	529	.05692	R	529
LOWER SNAKE F AND W	2028	2043	1,263	1,263	.05692	R	1,263
LITTLE GOOSE	2028	2038	1,171	1,171	.05607	R	1,171
COUGAR	2028	2036	4	4	.05571	R	4
LOWER SNAKE F AND W	2028	2033	54	54	.05488	R	54
TOTAL							222,776

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2029	LOWER MONUMENTAL	2029	2059	278	278	.05949	R	278
	THE DALLES	2029	2064	79,074	79,074	.05949	R	79,074
	LOWER MONUMENTAL	2029	2079	1,882	1,882	.05949	R	1,882
	LOWER MONUMENTAL	2029	2054	45	45	.05864	R	45
	DETROIT-BIG CLIFF	2029	2054	234	234	.05864	R	234
	DETROIT-BIG CLIFF	2029	2054	120	120	.05864	R	120
	LOWER MONUMENTAL	2029	2049	33,953	33,953	.05778	R	33,953
	LOWER MONUMENTAL	2029	2044	33,179	33,179	.05692	R	33,179
	DETROIT-BIG CLIFF	2029	2044	26,466	26,466	.05692	R	26,466
	DETROIT-BIG CLIFF	2029	2044	19	19	.05692	R	19
	LOWER MONUMENTAL	2029	2041	2,582	2,582	.05641	R	2,582
	LOWER MONUMENTAL	2029	2039	13	13	.05607	R	13
	THE DALLES	2029	2039	1	1	.05607	R	1
	DWORSHAK	2029	2037	43	43	.05571	R	43
	BONNEVILLE	2029	2037	4,519	4,519	.05571	R	4,519
	DWORSHAK	2029	2036	19	19	.05554	R	19
	THE DALLES	2029	2036	53	53	.05554	R	53
	THE DALLES	2029	2034	49	49	.05488	R	49
	TOTAL							182,529
2030	JOHN DAY	2030	2060	3,998	3,998	.05949	R	3,998
	MCNARY	2030	2055	1,029	1,029	.05864	R	1,029
	LOOKOUT POINT-DEXTER	2030	2055	605	605	.05864	R	605
	LOOKOUT POINT-DEXTER	2030	2055	39	39	.05864	R	39
	ALBENI FALLS	2030	2055	2,866	2,866	.05864	R	2,866
	JOHN DAY	2030	2050	2,241	2,241	.05778	R	2,241
	MCNARY	2030	2045	23,884	23,884	.05692	R	23,884
	JOHN DAY	2030	2045	178	178	.05692	R	178
	LIBBY	2030	2045	234	234	.05692	R	234
	JOHN DAY	2030	2045	2,241	2,241	.05692	R	2,241
	ALBENI FALLS	2030	2045	66	66	.05692	R	66
	LOOKOUT POINT-DEXTER	2030	2045	489	489	.05692	R	489
	JOHN DAY	2030	2042	49	49	.05641	R	49
	GREEN PETER-FOSTER	2030	2037	19	19	.05554	R	19
	TOTAL							37,938

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YEAR	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2031	LITTLE GOOSE	2031	2061	272	272	.05949	R	272
	BONNEVILLE	2031	2076	1,257	1,257	.05949	R	1,257
	YAKIMA-CHANDLER	2031	2056	1,062	1,062	.05864	R	1,062
	LITTLE GOOSE	2031	2051	33,953	33,953	.05778	R	33,953
	LITTLE GOOSE	2031	2046	34,470	34,470	.05692	R	34,470
	YAKIMA-CHANDLER	2031	2046	28	28	.05692	R	28
	BONNEVILLE	2031	2046	2,903	2,903	.05692	R	2,903
	LOWER SNAKE F AND W	2031	2043	586	586	.05641	R	586
	LITTLE GOOSE	2031	2043	2,582	2,582	.05641	R	2,582
	THE DALLES	2031	2043	10	10	.05641	R	10
	LITTLE GOOSE	2031	2041	13	13	.05607	R	13
	BONNEVILLE	2031	2041	127	127	.05607	R	127
	GREEN PETER-FOSTER	2031	2039	15	15	.05571	R	15
	LOWER SNAKE F AND W	2031	2039	123	123	.05571	R	123
	LOWER GRANITE	2031	2039	36	36	.05571	R	36
	THE DALLES	2031	2039	80	80	.05571	R	80
	DETROIT-BIG CLIFF	2031	2038	3	3	.05554	R	3
	LOWER GRANITE	2031	2038	27	27	.05554	R	27
	BONNEVILLE	2031	2036	72,812	72,812	.05488	R	72,812
	TOTAL							150,359
2032	ICE HARBOR	2032	2067	18,944	18,944	.05949	R	18,944
	BOISE	2032	2067	1,096	1,096	.05949	R	1,096
	BONNEVILLE	2032	2082	15,322	15,322	.05949	R	15,322
	MINIDOKA	2032	2057	2,648	2,648	.05864	R	2,648
	CHIEF JOSEPH	2032	2057	4,722	4,722	.05864	R	4,722
	BONNEVILLE	2032	2057	4,800	4,800	.05864	R	4,800
	CHIEF JOSEPH	2032	2047	1,607	1,607	.05692	R	1,607
	MINIDOKA	2032	2047	143	143	.05692	R	143
	BOISE	2032	2047	14	14	.05692	R	14
	ICE HARBOR	2032	2042	14,976	14,976	.05607	R	14,976
	LOWER SNAKE F AND W	2032	2039	642	642	.05554	R	642
	LIBBY	2032	2039	77	77	.05554	R	77
	LOWER MONUMENTAL	2032	2039	26	26	.05554	R	26
	LOOKOUT POINT-DEXTER	2032	2039	17	17	.05554	R	17
	BONNEVILLE	2032	2039	30,984	30,984	.05554	R	30,984
	MCNARY	2032	2039	32	32	.05554	R	32
	ICE HARBOR	2032	2039	29,048	29,048	.05554	R	29,048
	ICE HARBOR	2032	2037	15,363	15,363	.05488	R	15,363

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT

TOTAL							140,461
2033							
THE DALLES	2033	2063	21,796	21,796	.05949	R	21,796
HUNGRY HORSE	2033	2073	6,916	6,916	.05949	R	6,916
LOWER SNAKE F AND W	2033	2083	18,862	18,862	.05949	R	18,862
YAKIMA-ROZA	2033	2058	120	120	.05864	R	120
LOWER SNAKE F AND W	2033	2058	1,135	1,135	.05864	R	1,135
THE DALLES	2033	2053	254	254	.05778	R	254
HUNGRY HORSE	2033	2053	795	795	.05778	R	795
DWORSHAK	2033	2053	3,845	3,845	.05778	R	3,845
YAKIMA-ROZA	2033	2048	3	3	.05692	R	3
DWORSHAK	2033	2048	3,295	3,295	.05692	R	3,295
THE DALLES	2033	2048	2,205	2,205	.05692	R	2,205
THE DALLES	2033	2045	1,949	1,949	.05641	R	1,949
DWORSHAK	2033	2045	61	61	.05641	R	61
LOWER SNAKE F AND W	2033	2043	1,168	1,168	.05607	R	1,168
DWORSHAK	2033	2043	207	207	.05607	R	207
LOST CREEK	2033	2041	1	1	.05571	R	1
LOWER MONUMENTAL	2033	2041	50	50	.05571	R	50
JOHN DAY	2033	2040	31	31	.05554	R	31
LOWER SNAKE F AND W	2033	2038	54	54	.05488	R	54

TOTAL							62,747
2034							
COUGAR	2034	2069	2,903	2,903	.05949	R	2,903
DETROIT-BIG CLIFF	2034	2074	14,517	14,517	.05949	R	14,517
DETROIT-BIG CLIFF	2034	2074	1,690	1,690	.05949	R	1,690
THE DALLES	2034	2059	2,887	2,887	.05864	R	2,887
DETROIT-BIG CLIFF	2034	2054	334	334	.05778	R	334
DETROIT-BIG CLIFF	2034	2054	5,164	5,164	.05778	R	5,164
THE DALLES	2034	2049	1,429	1,429	.05692	R	1,429
ICE HARBOR	2034	2046	5,422	5,422	.05641	R	5,422
DETROIT-BIG CLIFF	2034	2044	36	36	.05607	R	36
DETROIT-BIG CLIFF	2034	2042	5	5	.05571	R	5
JOHN DAY	2034	2042	5	5	.05571	R	5
ICE HARBOR	2034	2042	7,875	7,875	.05571	R	7,875
LITTLE GOOSE	2034	2041	26	26	.05554	R	26
COUGAR	2034	2041	3	3	.05554	R	3
THE DALLES	2034	2039	49	49	.05488	R	49

TOTAL							42,345

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2035							
LOWER GRANITE	2035	2065	753	753	.05949	R	753
MCNARY	2035	2075	36,506	36,506	.05949	R	36,506
LOOKOUT POINT-DEXTER	2035	2075	2,399	2,399	.05949	R	2,399
LOOKOUT POINT-DEXTER	2035	2075	12,028	12,028	.05949	R	12,028
ALBENI FALLS	2035	2075	723	723	.05949	R	723
LIBBY	2035	2085	6,842	6,842	.05949	R	6,842
LIBBY	2035	2060	315	315	.05864	R	315
LOOKOUT POINT-DEXTER	2035	2055	497	497	.05778	R	497
MCNARY	2035	2055	1,392	1,392	.05778	R	1,392
LOOKOUT POINT-DEXTER	2035	2055	85	85	.05778	R	85
ALBENI FALLS	2035	2055	1,052	1,052	.05778	R	1,052
LOWER GRANITE	2035	2055	40,279	40,279	.05778	R	40,279
LOWER GRANITE	2035	2050	19,623	19,623	.05692	R	19,623
LOWER GRANITE	2035	2047	23	23	.05641	R	23
LOOKOUT POINT-DEXTER	2035	2045	123	123	.05607	R	123
MCNARY	2035	2045	65,841	65,841	.05607	R	65,841
LOWER GRANITE	2035	2045	1,003	1,003	.05607	R	1,003
ALBENI FALLS	2035	2045	1	1	.05607	R	1
LITTLE GOOSE	2035	2043	45	45	.05571	R	45
LOOKOUT POINT-DEXTER	2035	2043	6	6	.05571	R	6
MCNARY	2035	2043	67	67	.05571	R	67

TOTAL							189,603
2036							
YAKIMA-CHANDLER	2036	2076	533	533	.05949	R	533
YAKIMA-CHANDLER	2036	2056	99	99	.05778	R	99
LIBBY	2036	2056	750	750	.05778	R	750
ICE HARBOR	2036	2056	219	219	.05778	R	219
LIBBY	2036	2051	2,135	2,135	.05692	R	2,135
YAKIMA-CHANDLER	2036	2046	67	67	.05607	R	67
LIBBY	2036	2046	77	77	.05607	R	77
COUGAR	2036	2044	4	4	.05571	R	4
DWORSHAK	2036	2043	19	19	.05554	R	19
THE DALLES	2036	2043	53	53	.05554	R	53
BONNEVILLE	2036	2041	72,812	72,812	.05488	R	72,812

TOTAL							76,768

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+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2037	MINIDOKA	2037	2067	79	79	.05949	R	79
	LOST CREEK	2037	2067	185	185	.05949	R	185
	COLUMBIA BASIN	2037	2067	2,360	2,360	.05949	R	2,360
	MINIDOKA	2037	2077	1,850	1,850	.05949	R	1,850
	MINIDOKA	2037	2077	7,133	7,133	.05949	R	7,133
	CHIEF JOSEPH	2037	2077	31,147	31,147	.05949	R	31,147
	COLUMBIA BASIN	2037	2082	52,195	52,195	.05949	R	52,195
	ICE HARBOR	2037	2062	1,783	1,783	.05864	R	1,783
	HILLS CREEK	2037	2062	1	1	.05864	R	1
	LOST CREEK	2037	2057	43	43	.05778	R	43
	MINIDOKA	2037	2057	106	106	.05778	R	106
	MINIDOKA	2037	2057	314	314	.05778	R	314
	CHIEF JOSEPH	2037	2057	2,457	2,457	.05778	R	2,457
	COLUMBIA BASIN	2037	2052	953	953	.05692	R	953
	MINIDOKA	2037	2052	97	97	.05692	R	97
	LOST CREEK	2037	2049	5	5	.05641	R	5
	BONNEVILLE	2037	2049	164	164	.05641	R	164
	GREEN PETER-FOSTER	2037	2047	25	25	.05607	R	25
	MINIDOKA	2037	2047	18	18	.05607	R	18
	CHIEF JOSEPH	2037	2047	46	46	.05607	R	46
	DWORSHAK	2037	2045	43	43	.05571	R	43
	BONNEVILLE	2037	2045	4,519	4,519	.05571	R	4,519
	GREEN PETER-FOSTER	2037	2044	19	19	.05554	R	19
	ICE HARBOR	2037	2042	15,363	15,363	.05488	R	15,363
	TOTAL							120,905
2038	COLUMBIA BASIN	2038	2068	2,649	2,649	.05949	R	2,649
	YAKIMA-ROZA	2038	2078	141	141	.05949	R	141
	LOWER GRANITE	2038	2058	352	352	.05778	R	352
	LITTLE GOOSE	2038	2058	218	218	.05778	R	218
	YAKIMA-ROZA	2038	2058	9	9	.05778	R	9
	COLUMBIA BASIN	2038	2058	6,192	6,192	.05778	R	6,192
	CHIEF JOSEPH	2038	2058	798	798	.05778	R	798
	LOWER GRANITE	2038	2053	352	352	.05692	R	352
	COLUMBIA BASIN	2038	2053	1,288	1,288	.05692	R	1,288
	CHIEF JOSEPH	2038	2053	227	227	.05692	R	227
	DETROIT-BIG CLIFF	2038	2050	27	27	.05641	R	27
	LITTLE GOOSE	2038	2048	1,171	1,171	.05607	R	1,171
	DETROIT-BIG CLIFF	2038	2045	3	3	.05554	R	3

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+	LOWER GRANITE	2038	2045	27	27	.05554	R	27
	LOWER SNAKE F AND W	2038	2043	54	54	.05488	R	54
	TOTAL							----- 13,508
2039	LOWER MONUMENTAL	2039	2074	11,593	11,593	.05949	R	11,593
	THE DALLES	2039	2079	49,926	49,926	.05949	R	49,926
	COUGAR	2039	2064	151	151	.05864	R	151
	LOWER MONUMENTAL	2039	2059	349	349	.05778	R	349
	THE DALLES	2039	2059	1,406	1,406	.05778	R	1,406
	COUGAR	2039	2054	49	49	.05692	R	49
	LOOKOUT POINT-DEXTER	2039	2051	44	44	.05641	R	44
	MCNARY	2039	2051	32,275	32,275	.05641	R	32,275
	ALBENI FALLS	2039	2051	148	148	.05641	R	148
	THE DALLES	2039	2049	1	1	.05607	R	1
	LOWER MONUMENTAL	2039	2049	13	13	.05607	R	13
	THE DALLES	2039	2047	80	80	.05571	R	80
	LOWER GRANITE	2039	2047	36	36	.05571	R	36
	GREEN PETER-FOSTER	2039	2047	15	15	.05571	R	15
	LOWER SNAKE F AND W	2039	2047	123	123	.05571	R	123
	LOOKOUT POINT-DEXTER	2039	2046	17	17	.05554	R	17
	LIBBY	2039	2046	77	77	.05554	R	77
	ICE HARBOR	2039	2046	29,048	29,048	.05554	R	29,048
	LOWER MONUMENTAL	2039	2046	26	26	.05554	R	26
	MCNARY	2039	2046	32	32	.05554	R	32
	BONNEVILLE	2039	2046	30,984	30,984	.05554	R	30,984
	LOWER SNAKE F AND W	2039	2046	642	642	.05554	R	642
	THE DALLES	2039	2044	49	49	.05488	R	49
	TOTAL							----- 157,084
2040	JOHN DAY	2040	2075	608	608	.05949	R	608
	JOHN DAY	2040	2047	31	31	.05554	R	31
	TOTAL							----- 639

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	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
+								
2041	LITTLE GOOSE	2041	2076	14,147	14,147	.05949	R	14,147
	DETROIT-BIG CLIFF	2041	2091	636	636	.05949	R	636
	BONNEVILLE	2041	2091	24,277	24,277	.05949	R	24,277
	BONNEVILLE	2041	2066	2,922	2,922	.05864	R	2,922
	BONNEVILLE	2041	2061	700	700	.05778	R	700
	LOWER MONUMENTAL	2041	2053	2,582	2,582	.05641	R	2,582
	BONNEVILLE	2041	2051	127	127	.05607	R	127
	LITTLE GOOSE	2041	2051	13	13	.05607	R	13
	LOST CREEK	2041	2049	1	1	.05571	R	1
	LOWER MONUMENTAL	2041	2049	50	50	.05571	R	50
	LITTLE GOOSE	2041	2048	26	26	.05554	R	26
	COUGAR	2041	2048	3	3	.05554	R	3
	BONNEVILLE	2041	2046	72,812	72,812	.05488	R	72,812
	TOTAL							118,296
2042	ICE HARBOR	2042	2082	13,042	13,042	.05949	R	13,042
	HILLS CREEK	2042	2082	1,986	1,986	.05949	R	1,986
	MINIDOKA	2042	2067	2,215	2,215	.05864	R	2,215
	GREEN PETER-FOSTER	2042	2067	151	151	.05864	R	151
	ICE HARBOR	2042	2062	1,634	1,634	.05778	R	1,634
	BONNEVILLE	2042	2057	1,251	1,251	.05692	R	1,251
	JOHN DAY	2042	2054	49	49	.05641	R	49
	ICE HARBOR	2042	2052	14,976	14,976	.05607	R	14,976
	ICE HARBOR	2042	2050	7,875	7,875	.05571	R	7,875
	JOHN DAY	2042	2050	5	5	.05571	R	5
	DETROIT-BIG CLIFF	2042	2050	5	5	.05571	R	5
	ICE HARBOR	2042	2047	15,363	15,363	.05488	R	15,363
	TOTAL							58,552
2043	LOWER SNAKE F AND W	2043	2073	2,493	2,493	.05949	R	2,493
	HUNGRY HORSE	2043	2073	534	534	.05949	R	534
	THE DALLES	2043	2078	17,626	17,626	.05949	R	17,626
	DWORSHAK	2043	2078	13,957	13,957	.05949	R	13,957
	HUNGRY HORSE	2043	2088	7,596	7,596	.05949	R	7,596
	GREEN PETER-FOSTER	2043	2068	77	77	.05864	R	77
	LOWER SNAKE F AND W	2043	2063	5,870	5,870	.05778	R	5,870
	HUNGRY HORSE	2043	2058	529	529	.05692	R	529
	LOWER SNAKE F AND W	2043	2058	1,263	1,263	.05692	R	1,263
	LOWER SNAKE F AND W	2043	2055	586	586	.05641	R	586

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PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
LITTLE GOOSE	2043	2055	2,582	2,582	.05641	R	2,582	
THE DALLES	2043	2055	10	10	.05641	R	10	
LOWER SNAKE F AND W	2043	2053	1,168	1,168	.05607	R	1,168	
DWORSHAK	2043	2053	207	207	.05607	R	207	
LITTLE GOOSE	2043	2051	45	45	.05571	R	45	
MCNARY	2043	2051	67	67	.05571	R	67	
LOOKOUT POINT-DEXTER	2043	2051	6	6	.05571	R	6	
DWORSHAK	2043	2050	19	19	.05554	R	19	
THE DALLES	2043	2050	53	53	.05554	R	53	
LOWER SNAKE F AND W	2043	2048	54	54	.05488	R	54	
TOTAL							54,742	
2044	DETROIT-BIG CLIFF	2044	2074	698	698	.05949	R	698
	COUGAR	2044	2084	1,711	1,711	.05949	R	1,711
	DETROIT-BIG CLIFF	2044	2089	5,518	5,518	.05949	R	5,518
	LOWER MONUMENTAL	2044	2069	961	961	.05864	R	961
	COUGAR	2044	2064	80	80	.05778	R	80
	DETROIT-BIG CLIFF	2044	2059	26,466	26,466	.05692	R	26,466
	DETROIT-BIG CLIFF	2044	2059	19	19	.05692	R	19
	LOWER MONUMENTAL	2044	2059	33,179	33,179	.05692	R	33,179
	DETROIT-BIG CLIFF	2044	2054	36	36	.05607	R	36
	COUGAR	2044	2052	4	4	.05571	R	4
	GREEN PETER-FOSTER	2044	2051	19	19	.05554	R	19
	THE DALLES	2044	2049	49	49	.05488	R	49
TOTAL							68,740	
2045	LOWER GRANITE	2045	2080	9,529	9,529	.05949	R	9,529
	LOOKOUT POINT-DEXTER	2045	2090	2,612	2,612	.05949	R	2,612
	LOOKOUT POINT-DEXTER	2045	2090	6,285	6,285	.05949	R	6,285
	JOHN DAY	2045	2070	731	731	.05864	R	731
	LOOKOUT POINT-DEXTER	2045	2060	489	489	.05692	R	489
	MCNARY	2045	2060	23,884	23,884	.05692	R	23,884
	LIBBY	2045	2060	234	234	.05692	R	234
	JOHN DAY	2045	2060	178	178	.05692	R	178
	JOHN DAY	2045	2060	2,241	2,241	.05692	R	2,241
	ALBENI FALLS	2045	2060	66	66	.05692	R	66
	THE DALLES	2045	2057	1,949	1,949	.05641	R	1,949
	DWORSHAK	2045	2057	61	61	.05641	R	61
	LOWER GRANITE	2045	2055	1,003	1,003	.05607	R	1,003

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-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
LOOKOUT POINT-DEXTER	2045	2055	123	123	.05607	R	123
ALBENI FALLS	2045	2055	1	1	.05607	R	1
MCNARY	2045	2055	65,841	65,841	.05607	R	65,841
BONNEVILLE	2045	2053	4,519	4,519	.05571	R	4,519
DWORSHAK	2045	2053	43	43	.05571	R	43
LOWER GRANITE	2045	2052	27	27	.05554	R	27
DETROIT-BIG CLIFF	2045	2052	3	3	.05554	R	3
TOTAL							----- 119,819
2046 YAKIMA-CHANDLER	2046	2076	68	68	.05949	R	68
LIBBY	2046	2081	11,804	11,804	.05949	R	11,804
ICE HARBOR	2046	2081	7,271	7,271	.05949	R	7,271
BONNEVILLE	2046	2081	82,824	82,824	.05949	R	82,824
YAKIMA-CHANDLER	2046	2091	871	871	.05949	R	871
LITTLE GOOSE	2046	2071	1,100	1,100	.05864	R	1,100
LITTLE GOOSE	2046	2061	34,470	34,470	.05692	R	34,470
YAKIMA-CHANDLER	2046	2061	28	28	.05692	R	28
BONNEVILLE	2046	2061	2,903	2,903	.05692	R	2,903
ICE HARBOR	2046	2058	5,422	5,422	.05641	R	5,422
LIBBY	2046	2056	77	77	.05607	R	77
YAKIMA-CHANDLER	2046	2056	67	67	.05607	R	67
LIBBY	2046	2053	77	77	.05554	R	77
ICE HARBOR	2046	2053	29,048	29,048	.05554	R	29,048
MCNARY	2046	2053	32	32	.05554	R	32
LOWER MONUMENTAL	2046	2053	26	26	.05554	R	26
BONNEVILLE	2046	2053	30,984	30,984	.05554	R	30,984
LOOKOUT POINT-DEXTER	2046	2053	17	17	.05554	R	17
LOWER SNAKE F AND W	2046	2053	642	642	.05554	R	642
BONNEVILLE	2046	2051	72,812	72,812	.05488	R	72,812
TOTAL							----- 280,543
2047 MINIDOKA	2047	2077	99	99	.05949	R	99
BOISE	2047	2077	74	74	.05949	R	74
LOST CREEK	2047	2082	19	19	.05949	R	19
BONNEVILLE	2047	2082	17	17	.05949	R	17
GREEN PETER-FOSTER	2047	2087	4,324	4,324	.05949	R	4,324
BOISE	2047	2087	904	904	.05949	R	904
MINIDOKA	2047	2092	4,528	4,528	.05949	R	4,528
COLUMBIA BASIN	2047	2097	158,969	158,969	.05949	R	158,969

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-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT	
COLUMBIA BASIN	2047	2072	50,909	50,909	.05864	R	50,909	
GREEN PETER-FOSTER	2047	2067	1,093	1,093	.05778	R	1,093	
COLUMBIA BASIN	2047	2067	5,285	5,285	.05778	R	5,285	
BOISE	2047	2067	159	159	.05778	R	159	
MINIDOKA	2047	2062	143	143	.05692	R	143	
CHIEF JOSEPH	2047	2062	1,607	1,607	.05692	R	1,607	
BOISE	2047	2062	14	14	.05692	R	14	
LOWER GRANITE	2047	2059	23	23	.05641	R	23	
CHIEF JOSEPH	2047	2057	46	46	.05607	R	46	
MINIDOKA	2047	2057	18	18	.05607	R	18	
GREEN PETER-FOSTER	2047	2057	25	25	.05607	R	25	
GREEN PETER-FOSTER	2047	2055	15	15	.05571	R	15	
THE DALLES	2047	2055	80	80	.05571	R	80	
LOWER SNAKE F AND W	2047	2055	123	123	.05571	R	123	
LOWER GRANITE	2047	2055	36	36	.05571	R	36	
JOHN DAY	2047	2054	31	31	.05554	R	31	
ICE HARBOR	2047	2052	15,363	15,363	.05488	R	15,363	
TOTAL							243,904	
2048	YAKIMA-ROZA	2048	2078	5	5	.05949	R	5
	LOWER GRANITE	2048	2083	11,223	11,223	.05949	R	11,223
	LITTLE GOOSE	2048	2083	11,039	11,039	.05949	R	11,039
	COLUMBIA BASIN	2048	2083	61,863	61,863	.05949	R	61,863
	CHIEF JOSEPH	2048	2083	78,501	78,501	.05949	R	78,501
	GREEN PETER-FOSTER	2048	2088	18,961	18,961	.05949	R	18,961
	YAKIMA-ROZA	2048	2093	238	238	.05949	R	238
	DWORSHAK	2048	2073	8,301	8,301	.05864	R	8,301
	GREEN PETER-FOSTER	2048	2068	893	893	.05778	R	893
	YAKIMA-ROZA	2048	2063	3	3	.05692	R	3
	DWORSHAK	2048	2063	3,295	3,295	.05692	R	3,295
	THE DALLES	2048	2063	2,205	2,205	.05692	R	2,205
	LITTLE GOOSE	2048	2058	1,171	1,171	.05607	R	1,171
	COUGAR	2048	2055	3	3	.05554	R	3
	LITTLE GOOSE	2048	2055	26	26	.05554	R	26
	LOWER SNAKE F AND W	2048	2053	54	54	.05488	R	54
TOTAL							197,781	

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YEAR

-----INVESTMENT PAID-----

(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
2049	LOWER MONUMENTAL	2049	2084	10,664	10,664	.05949	R	10,664
	LOWER MONUMENTAL	2049	2089	11,877	11,877	.05949	R	11,877
	LOWER MONUMENTAL	2049	2069	33,953	33,953	.05778	R	33,953
	THE DALLES	2049	2064	1,429	1,429	.05692	R	1,429
	LOST CREEK	2049	2061	5	5	.05641	R	5
	BONNEVILLE	2049	2061	164	164	.05641	R	164
	THE DALLES	2049	2059	1	1	.05607	R	1
	LOWER MONUMENTAL	2049	2059	13	13	.05607	R	13
	LOST CREEK	2049	2057	1	1	.05571	R	1
	LOWER MONUMENTAL	2049	2057	50	50	.05571	R	50
	THE DALLES	2049	2054	49	49	.05488	R	49
	TOTAL							58,206
2050	JOHN DAY	2050	2090	52,082	52,082	.05949	R	52,082
	LOWER GRANITE	2050	2075	234	234	.05864	R	234
	JOHN DAY	2050	2070	2,241	2,241	.05778	R	2,241
	LOWER GRANITE	2050	2065	19,623	19,623	.05692	R	19,623
	DETROIT-BIG CLIFF	2050	2062	27	27	.05641	R	27
	JOHN DAY	2050	2058	5	5	.05571	R	5
	ICE HARBOR	2050	2058	7,875	7,875	.05571	R	7,875
	DETROIT-BIG CLIFF	2050	2058	5	5	.05571	R	5
	DWORSHAK	2050	2057	19	19	.05554	R	19
	THE DALLES	2050	2057	53	53	.05554	R	53
	TOTAL							82,164
2051	LITTLE GOOSE	2051	2091	11,872	11,872	.05949	R	11,872
	LIBBY	2051	2076	2,960	2,960	.05864	R	2,960
	ICE HARBOR	2051	2076	48	48	.05864	R	48
	LITTLE GOOSE	2051	2071	33,953	33,953	.05778	R	33,953
	LIBBY	2051	2066	2,135	2,135	.05692	R	2,135
	MCNARY	2051	2063	32,275	32,275	.05641	R	32,275
	LOOKOUT POINT-DEXTER	2051	2063	44	44	.05641	R	44
	ALBENI FALLS	2051	2063	148	148	.05641	R	148
	LITTLE GOOSE	2051	2061	13	13	.05607	R	13
	BONNEVILLE	2051	2061	127	127	.05607	R	127
	LOOKOUT POINT-DEXTER	2051	2059	6	6	.05571	R	6
	MCNARY	2051	2059	67	67	.05571	R	67
	LITTLE GOOSE	2051	2059	45	45	.05571	R	45
	GREEN PETER-FOSTER	2051	2058	19	19	.05554	R	19

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(ALL AMOUNT IN \$1000)

+	PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
	BONNEVILLE	2051	2056	72,812	72,812	.05488	R	72,812
	TOTAL							----- 156,524
2052	ICE HARBOR	2052	2082	407	407	.05949	R	407
	HILLS CREEK	2052	2082	389	389	.05949	R	389
	COLUMBIA BASIN	2052	2087	44,684	44,684	.05949	R	44,684
	BONNEVILLE	2052	2087	79,089	79,089	.05949	R	79,089
	ICE HARBOR	2052	2097	225	225	.05949	R	225
	MINIDOKA	2052	2097	6,912	6,912	.05949	R	6,912
	HILLS CREEK	2052	2097	629	629	.05949	R	629
	LOST CREEK	2052	2077	84	84	.05864	R	84
	BONNEVILLE	2052	2077	15	15	.05864	R	15
	BOISE	2052	2077	24,348	24,348	.05864	R	24,348
	COLUMBIA BASIN	2052	2067	953	953	.05692	R	953
	MINIDOKA	2052	2067	97	97	.05692	R	97
	ICE HARBOR	2052	2062	14,976	14,976	.05607	R	14,976
	COUGAR	2052	2060	4	4	.05571	R	4
	LOWER GRANITE	2052	2059	27	27	.05554	R	27
	DETROIT-BIG CLIFF	2052	2059	3	3	.05554	R	3
	ICE HARBOR	2052	2057	15,363	15,363	.05488	R	15,363
	TOTAL							----- 188,205
2053	LOWER SNAKE F AND W	2053	2088	1,282	1,282	.05949	R	1,282
	DWORSHAK	2053	2093	8,674	8,674	.05949	R	8,674
	HUNGRY HORSE	2053	2103	52,082	52,082	.05949	R	52,082
	LOWER GRANITE	2053	2078	132	132	.05864	R	132
	LITTLE GOOSE	2053	2078	43	43	.05864	R	43
	HUNGRY HORSE	2053	2078	12,103	12,103	.05864	R	12,103
	COLUMBIA BASIN	2053	2078	55,867	55,867	.05864	R	55,867
	CHIEF JOSEPH	2053	2078	385	385	.05864	R	385
	THE DALLES	2053	2073	254	254	.05778	R	254
	HUNGRY HORSE	2053	2073	795	795	.05778	R	795
	DWORSHAK	2053	2073	3,845	3,845	.05778	R	3,845
	LOWER GRANITE	2053	2068	352	352	.05692	R	352
	COLUMBIA BASIN	2053	2068	1,288	1,288	.05692	R	1,288
	CHIEF JOSEPH	2053	2068	227	227	.05692	R	227
	LOWER MONUMENTAL	2053	2065	2,582	2,582	.05641	R	2,582
	LOWER SNAKE F AND W	2053	2063	1,168	1,168	.05607	R	1,168
	DWORSHAK	2053	2063	207	207	.05607	R	207

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(ALL AMOUNT IN \$1000)

PROJECT	IN-SERVICE	DUE	GROSS	NET	RATE	REPLACEMENT	AMOUNT
DWORSHAK	2053	2061	43	43	.05571	R	43
BONNEVILLE	2053	2061	4,519	4,519	.05571	R	4,519
LOWER SNAKE F AND W	2053	2060	642	642	.05554	R	642
LOOKOUT POINT-DEXTER	2053	2060	17	17	.05554	R	17
LOWER MONUMENTAL	2053	2060	26	26	.05554	R	26
LIBBY	2053	2060	77	77	.05554	R	77
ICE HARBOR	2053	2060	29,048	29,048	.05554	R	29,048
MCNARY	2053	2060	32	32	.05554	R	32
BONNEVILLE	2053	2060	30,984	30,984	.05554	R	30,984
LOWER SNAKE F AND W	2053	2058	54	54	.05488	R	54
TOTAL							206,728
2054 LOWER MONUMENTAL	2054	2079	45	45	.05864	R	45
DETROIT-BIG CLIFF	2054	2079	120	120	.05864	R	120
DETROIT-BIG CLIFF	2054	2079	234	234	.05864	R	234
DETROIT-BIG CLIFF	2054	2074	334	334	.05778	R	334
DETROIT-BIG CLIFF	2054	2074	5,164	5,164	.05778	R	5,164
COUGAR	2054	2069	49	49	.05692	R	49
JOHN DAY	2054	2066	49	49	.05641	R	49
DETROIT-BIG CLIFF	2054	2064	36	36	.05607	R	36
JOHN DAY	2054	2061	31	31	.05554	R	31
THE DALLES	2054	2059	49	49	.05488	R	49
TOTAL							6,111
2055 LIBBY	2055	2090	8,798	8,798	.05949	R	8,798
LOWER GRANITE	2055	2095	7,947	7,947	.05949	R	7,947
MCNARY	2055	2105	22,661	22,661	.05949	R	22,661
MCNARY	2055	2080	1,029	1,029	.05864	R	1,029
LOOKOUT POINT-DEXTER	2055	2080	39	39	.05864	R	39
LOOKOUT POINT-DEXTER	2055	2080	605	605	.05864	R	605
ALBENI FALLS	2055	2080	2,866	2,866	.05864	R	2,866
LOWER GRANITE	2055	2075	40,279	40,279	.05778	R	40,279
LOOKOUT POINT-DEXTER	2055	2075	85	85	.05778	R	85
LOOKOUT POINT-DEXTER	2055	2075	497	497	.05778	R	497
MCNARY	2055	2075	1,392	1,392	.05778	R	1,392
ALBENI FALLS	2055	2075	1,052	1,052	.05778	R	1,052
THE DALLES	2055	2067	10	10	.05641	R	10
LOWER SNAKE F AND W	2055	2067	586	586	.05641	R	586
LITTLE GOOSE	2055	2067	2,582	2,582	.05641	R	2,582

CHAPTER 11

REPAYMENT STUDY THEORY AND OPERATION

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Repayment Theory of Operation

Introduction

The Bonneville Power Administration (BPA) is required to collect sufficient revenues to meet the annual expenses and cover the long-term obligations of the Federal Columbia River Power System (FCRPS).

The *Repayment Program* is used to determine whether a given set of annual revenues is sufficient to meet a given set of annual expenses and cover a given set of long-term obligations when applied in accordance with the requirements of Department of energy (DOE) Order RA 6120.2. The Program is also used to determine by the *minimum* factor future revenues can be multiplied by to obtain a new set of revenues which will be sufficient to recover amortization costs.

The revenues and the expenses of the cost evaluation year will be assigned to all future years. This will have the effect of assigning the net operating revenue of the cost evaluation year to all future years. This has the effect of *levelizing* the long term obligations over all future years.

This discussion presents the basic theory upon which the operation of the Program is based, using a minimum of terms for clarity. The complications, how they are incorporated into the program and the effects they have upon the operation of the Program are discussed.

Basic Theory

Given sets of annual revenues and annual expenses, a set of (annual) net operating revenues can be immediately obtained by subtracting the expenses from the revenues. These net operating revenues will be used for paying interest expenses and amortization payments on the long-term obligations.

Compliance with RA 6120.2 requires satisfying, for each year (i), the equation:

$$(1) \text{ net revenues}(i) = \text{interest expense}(i) + \sum_j \text{payment}(i, j) \quad i= 1, 2, \dots, n$$

Note that for each year the payments have been summed over all obligations.

For each obligation (j) the equation:

$$(2) \sum_{i=1}^k \text{payment}(i, j) \leq \text{principle}(j) \quad j= 1,2, \dots, m,$$

for all k

must be satisfied. Note that for each obligation the payments have been summed over the years.

This set of equations has too many unknowns (payments on the principle balances) to solve simultaneously. RA 6120.2 suggests an approach to a solution when it requires that "to the extent possible, while still complying with the repayment periods established for each investment, amortization of the investment will be accompanied by application to the highest interest-bearing investment first." A method will be established for "complying with the repayment periods established for each investment" and then the investments will be amortized by "application to the highest –interest-bearing investment first" to the extent that compliance permits.

The first equation above is defined for each year and the payments are summed over the investments. The second equation is defined for each investment and the payments are summed over the years. This suggests that if the first set of equations is summed over the years and the second set of equations is summed over the investments, then it may be possible to eliminate the unknown payments between the two sets of equations:

$$\begin{aligned}
 (3) \sum_{i=1}^k \text{net revenues}(i) - \sum_{i=1}^k \text{interest expense}(i) & \quad k \text{ is the year the study is} \\
 \text{working on} & \\
 & \\
 = \sum_{i=1}^k \sum_j \text{payment}(i, j) & \quad k = 1, 2, \dots, n, \\
 & \\
 = \sum_j \sum_{i=1}^k \text{payment}(i, j) & \quad k = 1, 2, \dots, n, \\
 & \\
 = \sum_{\text{due}} \sum_{i=1}^k \text{payment}(i, j) + \sum_{\text{not due}} \sum_{j=1}^k \text{payment}(i, j) & \quad k = 1, 2, \dots, n, \\
 & \\
 = \sum_{\text{due}} \text{payment}(i, j) + \sum_{\text{not due}} \sum_{j=1}^k \text{payment}(i, j) & \quad k = 1, 2, \dots, n.
 \end{aligned}$$

Thus we obtain the *predictor* equation:

$$\begin{aligned}
 (4) \sum_{i=1}^k \text{net revenues}(i) - \sum_{i=1}^k \text{interest expense}(i) & - \sum_{\text{not due}} \sum_{j=1}^k \text{principle}(j) = \sum_j \sum_{i=1}^k \\
 \text{payment}(i, j) & \\
 & \\
 & \quad k = 1, 2, \dots, n.
 \end{aligned}$$

For each of the future years the right-hand side of the above equation represents the amount of the accumulated payments on “not due,” i.e., "highest interest" investments. The left side indicates how the amount of payments which can be made on these investments in compliance with RA 6120.2 can be evaluated. If, for some future year,

this amount is evaluated as being zero or negative, then this equation implies that no payment can be made on an investment which is "not due" until a later year and still comply with RA 6120.2. Accordingly, if the amount is evaluated as being zero or negative for any future year, then payments can be made only on "highest interest" investments which come due on or before the first such year.

Thus, a new equation is obtained for each year (k). Payments will be made on the highest interest-bearing investment which permits compliance with sets of equations (1), (2) and (4). The amount paid will be the maximum amount which permits compliance with these three sets of equations.

Application

The fourth set of equations does have the problem that a payment made in the current year will affect interest expenses in future years since interest will no longer have to be paid on that portion of the investment. This problem is currently solved by using an iterative approach (i.e., a method of successive approximations). The program initially includes no future interest in evaluating the left-hand side of the fourth set of equations. Consequently, the evaluation of revenues available for "not due" payments will be excessive. As the years are processed and the interest of a given year becomes known, it is used in the fourth set of equations for all later years. The fourth set of equations is thus modified, and the evaluation of revenues available for "not due" payments is reduced. It may come to pass that amortizing some investment on its due date will violate equations of the first and fourth sets: a negative balance will occur. A second iteration will be necessary.

In the second iteration, the interest payments from the first iteration will be used for future years. Since "not due" payments were excessive in the first iteration, the interest payments of the first iteration will be less than the true interest payments. But they will be more accurate than no interest at all and negative balances will be reduced.

If the revenues are sufficiently high, then with successive iterations the interest expenses will converge and the balances will be reduced to zero. A solution is found. But, if the revenues are not sufficiently high, then compliance with the fourth set of equations will force payments on high-interest obligations to be delayed into the future. This will cause an increase in the interest charges leaving still less revenues available for the high-interest obligations. With successive iterations, interest expenses will converge and negative balances will increase. No solution is found.

Deferral of Annual Expenses

If a set of revenues determined by a set of basic revenues and an assumed rate change cause deferral of annual expenses in any given year, it is necessary to modify the revenue equation for that year to the form:

$$\text{deferral} + \text{net revenue} = \text{interest expense}$$

and, for one or more later years, to the form:

$$\text{net revenue} = \text{interest expense} + \text{payment on deferral} + \text{amortization.}$$

Any change in the revenue equation will manifest itself in the predictor equation, and equation

(4) must be modified accordingly.

These deferrals and payments on deferral are initially assumed to be zero. When their values are actually determined, they are used in equation (4) for future years and they are saved in tables so that in case another iteration is necessary, the deferrals and payments from this iteration can be used in the place of future deferrals and payments for the next iteration.

Historical deferrals are processed similar to other investments with the exception that in accordance with RA 6120.2, they are amortized before any other investment.

Calculation of Interest Expense

Annual interest is computed by applying the applicable interest rate (r) to that portion of the principle (p) which was unpaid at the beginning of the year in accordance with RA 6120.2. The interest on a new obligation is half this amount as specified.

BPA is authorized to accrue an interest credit on its cash balance as an offset against its interest expense. For lack of more detailed information, the net revenues are assumed to accumulate, at a uniform rate throughout the year, except for the interest paid on the bonds at midyear.

If it were assumed that the half year's interest on new obligations implied that all new obligations came at midyear, then there would never be any mid-year interest on a new bond. It will, instead, be assumed that new bonds have a uniform probability of I/T of coming in at any time of the year, where T is equal to one year. Then the probability that the bond will have come in by the time (t) is

$$\int_0^t (1/T)dt = t/T \Big|_{t=0}^{t=t} = t/T.$$

The probability that it will have come in by the end of the year T is $T/T = 1$.

(This result can be seen without calculus). Assume that t and T are expressed in days and the year is not a leap year. By assumption the probability that the bond will come in on any particular day is $1/365$. Thus, the probability that the bond has come in on or before day t is

$$(t)(1/365) = t/365 = t/T.$$

For example, suppose that we want to find the probability that a given bond came in on or before the 100th day of the year. The desired probability is

$$(100)(1/365) = 100/365 = t/T.$$

The amount of interest that the bond will probably incur during a time interval (dt) coming at time (t) is the probability that the bond has come in multiplied by the amount of interest that the bond would incur in that interval:

$$di = (t/T)rpdt.$$

The amount of interest which will probably be incurred by time (t) is:

$$i = \int_0^t di = \int_0^t (t/T)rp dt = (t^2/2T) rp \Big|_{t=0}^{t=t} = (t^2/2T) rp.$$

In particular, the amount of interest incurred by midyear ($T/2$) would be $rpT/8$; and the amount incurred by the end of the year would be $rpT/2$, which is consistent with RA 6120.2.

(Midyear and end-of-year interest on new bonds can also be derived without calculus. We will consider the midyear interest first. To compute probable

midyear interest on new bonds, note that the probability of the bond issue date being in the first half year is 1/2. If the bond issue date is in the first half year, it will, on the average, accrue interest for half of the first half the first year.

Midyear interest on new bonds will be only 1/2 of the interest of a full year.

Since interest for an entire year is

$$i = rpT,$$

mid-year interest on a new bond will be

$$i = (1/2)^3 rpT = rpT/8.$$

Interest on new bonds for the whole year is

$$i = rpT/2$$

because, on average, the bond will have incurred interest for only half of the year.)

Premiums and Call Provisions

BPA's current bonds have either a provision that they cannot be redeemed for at least five years and that a premium must be paid if they are redeemed before the due date; a provision that they cannot be redeemed for at least five years and that a premium must be paid if they are redeemed five years before the due date; or, a provision that they can be called within five years without paying a premium. The premium calculation is a fraction of one year's interest which is proportional to the life of the bond. This premium must be included in the revenue equation and, as a consequence, will manifest itself in the predictor equation.

The first method used for incorporating the premiums in the solution method was to save the annual premiums between iterations and use those of the previous iteration to predict the future annual premiums. This resulted in some instability when premiums shifted

from one year to another. It resulted in an inability to solve when the revenues were close to the minimum revenues.

The second method was to consider the premium as being the amount which *would be* paid in the current year, but as being "due" when the principle was due. But, since the *would-be* premium decreased each year until actually paid, the predictor equation was adjusted each year to reflect the reduction in the premiums. This tended to introduce an inaccuracy in the predictor equation. Adjustment of the predictor equation for changes in premiums would make a small amount of revenues available in the following year for amortizing high-interest investments.

The premium actually paid is still stored by the year it is paid, for use in the output routines. The premium *actually paid* is now also stored by the year that the principle is due. "This "predicted penalty" is used in the predictor equation for the following iteration. With this modification any change in premium always affects the predictor equation in the same year, the year that the principle is due. This change only occurs when the premium is actually paid, and the amount of this change decreases as the solution converges.

The premiums also affect the "highest interest first" selection process. If the life of the bond is (T) and the time of redemption is (t), then the premium is given by the equation:

$$\text{premium} = rp(T-t)/T.$$

or if the bond has a callable at par provision in the remaining (t1) Years of its life, the premium is given by the equation:

$$\text{premium} = rp(T-t-t1)/(T-t1) \quad \text{if } t \leq (T-t1) \quad \text{otherwise premium} = 0$$

The total interest paid on the bond is given by the equation:

$$\text{interest} = rpt.$$

Combining the two we get:

$$\begin{aligned}\text{interest} + \text{premium} &= rpt + rp(T-t)/T \\ &= rpt(1-1/T) + rp.\end{aligned}$$

or, in the case of the bond callable at par

$$\begin{aligned}\text{interest} + \text{premium} &= rpt + rp(T-t-t_1)/(T-t_1) \\ &= rpt(1-1/(T-t_1)) + rp \\ \text{if } t > T-t_1 \text{ then } &= rpt\end{aligned}$$

Thus, such a premium is equivalent to a fixed premium together with a reduced interest rate. This fixed premium must be paid (unless bond is callable at par) regardless of when the bond is redeemed. This "reduced" interest rate will be used when comparing obligations to determine which one should be retired first.

Surplus Revenues

In the later years of the Study (and conceivably at any time during the Study), there may be revenues available but nothing on which to expend them on. Thus, a "surplus" term must be included in the revenue equation and will consequently manifest itself in the predictor equation. Since the surplus is not obligatory, it will be carried on the right-hand side of the predictor equation.

Minimizing Revenues

The repayment program has provisions for determining a set of minimum revenues sufficient to meet a given set of annual expenses and cover a given set of long-term obligations.

If unequal maximum and minimum revenue change parameters are supplied to the program, or if the (unequal) default parameters are used, then the program will perform a *binary search* to determine the minimum sufficient revenues. The set of revenues is multiplied by the minimum revenue change and the resulting revenues are tested for sufficiency. If revenues are not sufficient, this is indeed a minimum revenue change, e.g., no lower change will provide sufficient revenues. If sufficient, then this revenue becomes a maximum; it is divided by two to obtain a new minimum candidate and this cycle is repeated, if necessary, until a minimum change is obtained.

If a maximum has not yet been determined, then the given revenues are multiplied by the maximum revenue change and the resulting revenues are tested for sufficiency. If sufficient, this is indeed a maximum revenue change, i.e., the maximum of the range we must consider. If insufficient, then this revenue change becomes a new minimum: it is multiplied by two to obtain a new maximum candidate and this cycle is repeated, if necessary, until a maximum change is obtained.

A revenue change halfway between the present maximum and minimum is now determined and the resulting revenues are tested for sufficiency. If sufficient, this midpoint becomes a new maximum; if insufficient, it becomes a new minimum. In either case, the difference between the maximum and the minimum is only half of what it was previously. If this difference is greater than some specified (or default) accuracy, then

this cycle is repeated until the difference is less than the specified accuracy. When this difference is less than the specified accuracy, then the current maximum rate change provides the *minimum sufficient* revenues at this accuracy.

REPAYMENT PROGRAM LOGIC

The diagrams on the following pages show the flow of logic in BPA's repayment program. The first diagram shows the logic of the binary search used to locate minimum sufficient revenues. A necessary part of this search is the test for sufficiency. The logic of the test for sufficiency is shown on the remaining two diagrams.

The equations which are referred to are:

Revenue Equation: Net revenues of each year are expended on interest and payments on the principles.

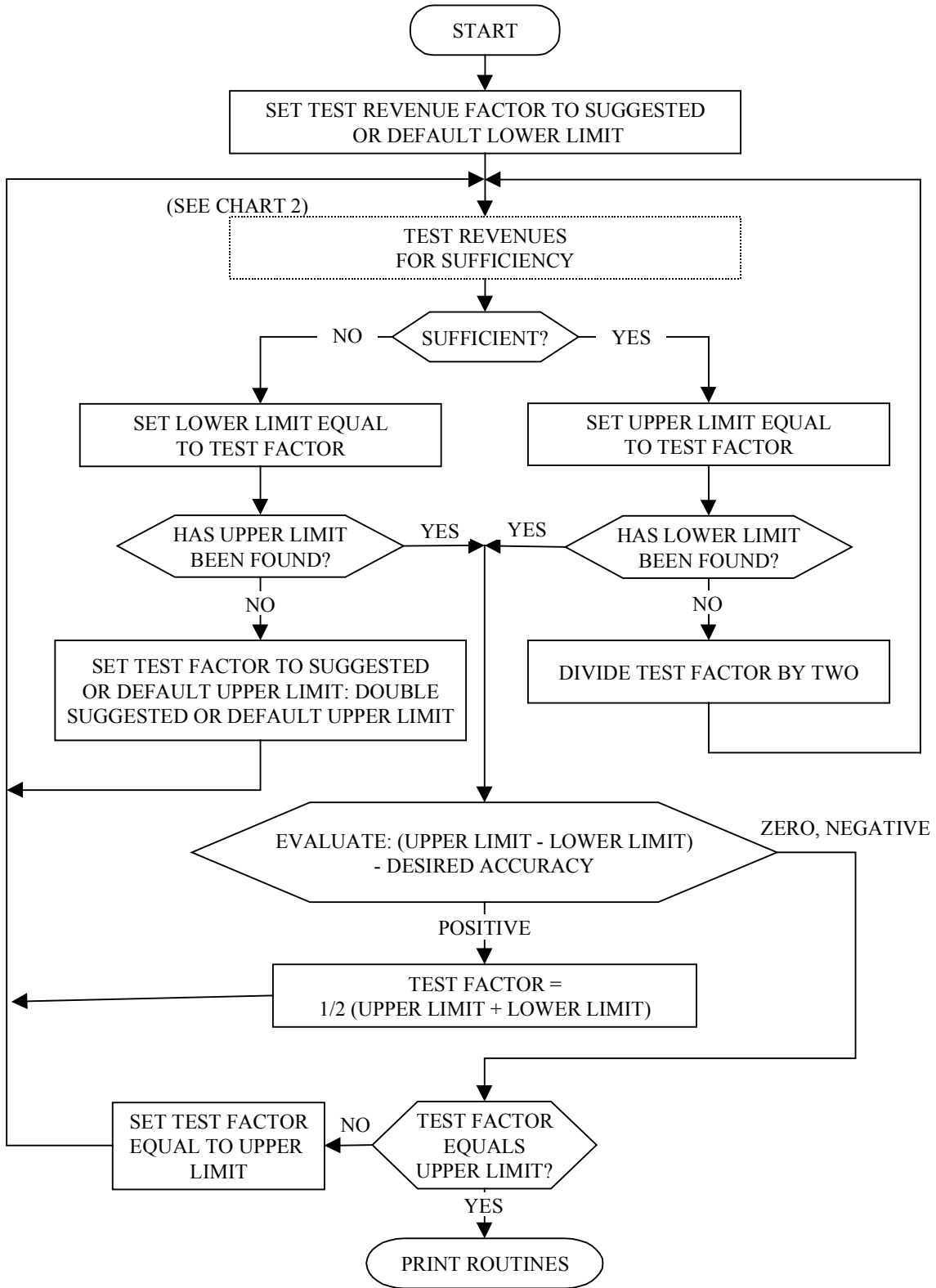
Investment equation: The payments on each investment are less than or equal to the principle of that investment (and equal to the principle of that investment after the investment is due).

Predictor equation: For each future year the accumulated revenues less the accumulated interest less the accumulated investments due is equal to the accumulated payments on high interest rate investments which are not due.

These equations are developed in more detail elsewhere in both the Study and the Documentation.

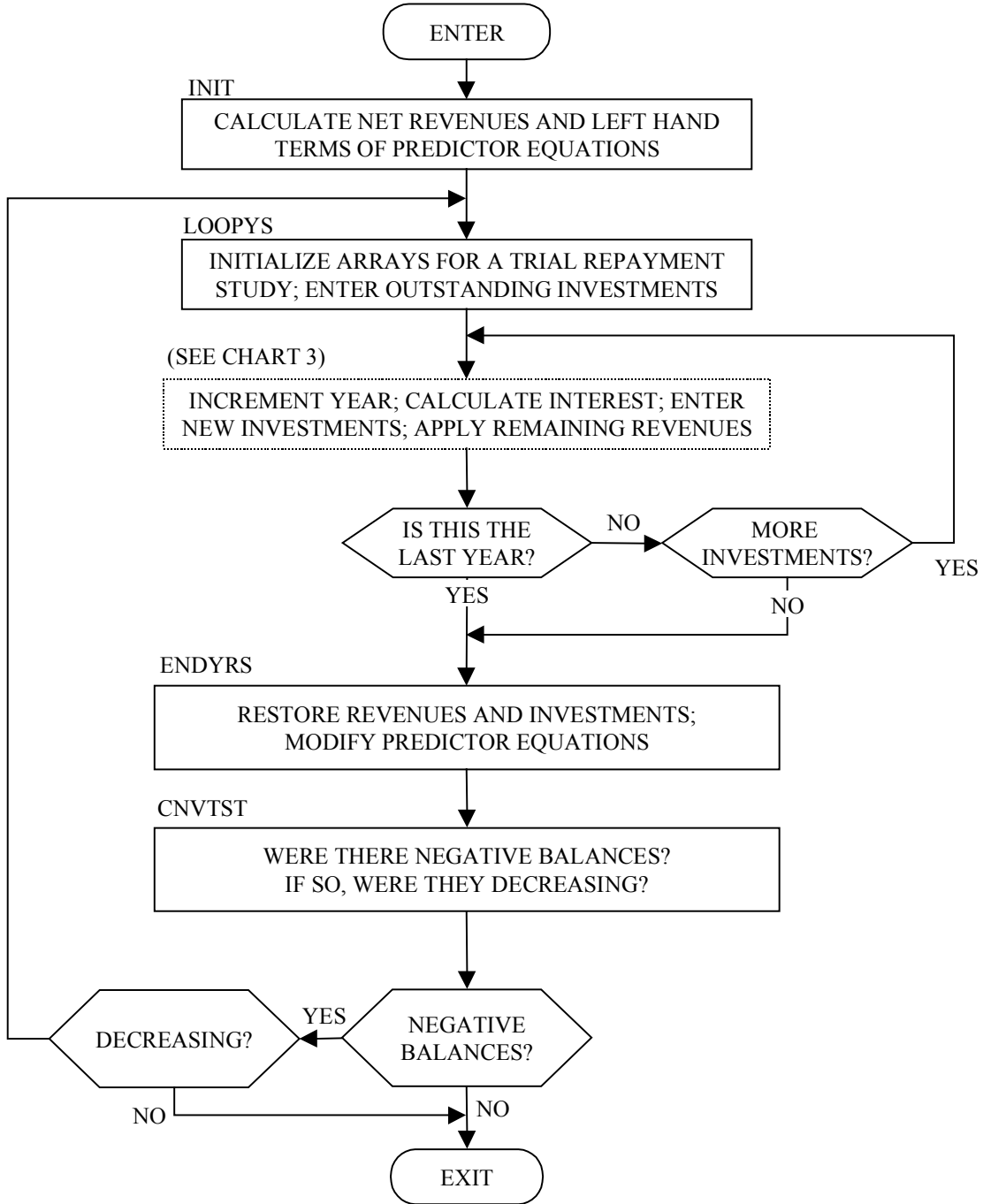
**REPAYMENT PROGRAM
(BINARY SEARCH)**

CHART 1



**REPAYMENT PROGRAM
(TEST FOR SUFFICIENCY)**

CHART 2



**REPAYMENT PROGRAM
(APPLICATION OF REVENUES)**

CHART 3

