

COMPOUND INTEREST AND ANNUITY TABLES

**SNAKE RIVER DAM COSTS**

**Beginning in 2001**

All costs in Thousands of Dollars

Discount Rate: 6.880%

Total Annual Costs	Present Value	Cap. Recovery Factor	Annual Average
\$ 82,531,437	\$ 2,862,936	0.06889	\$ 197,224
<i>Decommision (breach)</i>			
<b>Total Annual Average</b>			<b>\$197,224</b>

Year	Total Annual Costs**	Present Value \$1	Total Annual Cost: Present Value	Annual Cost Categories					
				1. System Improvements	2. O&M	3. Turbine Rehab	4. Comp Plan	5. Power Services	6. Dredging
2001	\$ 92,263	0.93563	\$ 86,324	\$11,660	\$35,200		\$14,450	\$22,681	\$8,272.00
2002	\$ 133,891	0.87540	\$ 117,209	\$42,325	\$43,700		\$16,000	\$23,382	\$8,484.00
2003	\$ 137,245	0.81905	\$ 112,410	\$46,137	\$42,900		\$15,400	\$24,106	\$8,702.00
2004	\$ 133,737	0.76633	\$ 102,486	\$53,861	\$30,600		\$15,500	\$24,851	\$8,925.00
2005	\$ 163,189	0.71700	\$ 117,006	\$64,221	\$32,700	\$12,800	\$18,700	\$25,620	\$9,148.13
2006	\$ 157,742	0.67084	\$ 105,820	\$55,953	\$34,700	\$12,800	\$18,500	\$26,412	\$9,376.83
2007	\$ 153,991	0.62766	\$ 96,654	\$47,451	\$38,200	\$12,800	\$18,700	\$27,229	\$9,611.25
2008	\$ 157,652	0.58726	\$ 92,582	\$49,129	\$38,000	\$12,800	\$19,800	\$28,071	\$9,851.53
2009	\$ 158,347	0.54945	\$ 87,005	\$48,942	\$37,968	\$12,800	\$19,600	\$28,939	\$10,097.82
2010	\$ 180,238	0.51409	\$ 92,658	\$36,202	\$52,551	\$27,700	\$23,600	\$29,834	\$10,350.26
2011	\$ 134,418	0.48099	\$ 64,654		\$53,652	\$14,900	\$24,500	\$30,757	\$10,609.02
2012	\$ 119,551	0.45003	\$ 53,801		\$37,568	\$14,900	\$24,500	\$31,708	\$10,874.25
2013	\$ 140,925	0.42106	\$ 59,338		\$37,190	\$31,200	\$28,700	\$32,689	\$11,146.10
2014	\$ 130,401	0.39396	\$ 51,372		\$38,306	\$16,300	\$30,670	\$33,700	\$11,424.75
2015	\$ 133,791	0.36860	\$ 49,315		\$39,400	\$16,300	\$31,670	\$34,711	\$11,710.37
2016	\$ 154,758	0.34487	\$ 53,372		\$40,600	\$34,100	\$32,303	\$35,752	\$12,003.13
2017	\$ 141,777	0.32267	\$ 45,747		\$41,900	\$17,800	\$32,949	\$36,825	\$12,303.21
2018	\$ 146,037	0.30190	\$ 44,089		\$43,100	\$17,800	\$34,596	\$37,930	\$12,610.79
2019	\$ 169,920	0.28247	\$ 47,997		\$44,400	\$37,200	\$36,326	\$39,068	\$12,926.06
2020	\$ 156,731	0.26428	\$ 41,422		\$45,700	\$19,400	\$38,143	\$40,240	\$13,249.21
2021	\$ 161,577	0.24727	\$ 39,953		\$47,100	\$19,400	\$40,050	\$41,447	\$13,580.44
2022	\$ 187,762	0.23135	\$ 43,440		\$48,500	\$40,600	\$42,052	\$42,690	\$13,919.95
2023	\$ 173,594	0.21646	\$ 37,576		\$50,000	\$21,200	\$44,155	\$43,971	\$14,267.95
2024	\$ 178,977	0.20253	\$ 36,248		\$51,500	\$21,200	\$46,363	\$45,290	\$14,624.65
2025	\$ 207,720	0.18949	\$ 39,361		\$53,000	\$44,400	\$48,681	\$46,649	\$14,990.27
2026	\$ 240,071	0.17729	\$ 42,563	\$47,743	\$54,600	\$23,200	\$51,115	\$48,048	\$15,365.02
2027	\$ 247,584	0.16588	\$ 41,069	\$49,175	\$56,300	\$23,200	\$53,670	\$49,490	\$15,749.15
2028	\$ 280,621	0.15520	\$ 43,553	\$50,650	\$57,900	\$48,600	\$56,354	\$50,974	\$16,142.88
2029	\$ 265,392	0.14521	\$ 38,538	\$52,170	\$59,700	\$25,300	\$59,172	\$52,504	\$16,546.45
2030	\$ 273,704	0.13586	\$ 37,187	\$53,735	\$61,500	\$25,300	\$62,130	\$54,079	\$16,960.11
2031	\$ 282,269	0.12712	\$ 35,882	\$55,347	\$63,300	\$25,300	\$65,237	\$55,701	\$17,384.12
2032	\$ 265,897	0.11894	\$ 31,625	\$57,008	\$65,200		\$68,499	\$57,372	\$17,818.72
2033	\$ 275,199	0.11128	\$ 30,624	\$58,718	\$67,200		\$71,924	\$59,093	\$18,264.19
2034	\$ 284,785	0.10412	\$ 29,651	\$60,479	\$69,200		\$75,520	\$60,866	\$18,720.79
2035	\$ 294,669	0.09741	\$ 28,705	\$62,293	\$71,200		\$79,296	\$62,692	\$19,188.81
2036	\$ 240,902	0.09114	\$ 21,957		\$73,400		\$83,260	\$64,573	\$19,668.53

2037	\$ 249,694	0.08528	\$ 21,293		\$75,600		\$87,424	\$66,510	\$20,160.24
2038	\$ 256,864	0.07979	\$ 20,495		\$75,900		\$91,795	\$68,505	\$20,664.25
2039	\$ 268,326	0.07465	\$ 20,031		\$80,200		\$96,384	\$70,560	\$21,180.86
2040	\$ 278,191	0.06985	\$ 19,431		\$82,600		\$101,204	\$72,677	\$21,710.38
2041	\$ 288,474	0.06535	\$ 18,852		\$85,100		\$106,264	\$74,857	\$22,253.14
2042	\$ 299,090	0.06114	\$ 18,287		\$87,600		\$111,577	\$77,103	\$22,809.47
2043	\$ 310,152	0.05721	\$ 17,743		\$90,200		\$117,156	\$79,416	\$23,379.70
2044	\$ 321,777	0.05352	\$ 17,223		\$93,000		\$123,014	\$81,799	\$23,964.19
2045	\$ 333,780	0.05008	\$ 16,716		\$95,800		\$129,164	\$84,253	\$24,563.30
2046	\$ 442,080	0.04686	\$ 20,714		\$98,600	\$95,900	\$135,623	\$86,780	\$25,177.38
2047	\$ 455,094	0.04384	\$ 19,951		\$101,600	\$95,900	\$142,404	\$89,384	\$25,806.82
2048	\$ 468,541	0.04102	\$ 19,218		\$104,600	\$95,900	\$149,524	\$92,065	\$26,451.99
2049	\$ 587,441	0.03838	\$ 22,544		\$107,800	\$200,700	\$157,000	\$94,827	\$27,113.29
2050	\$ 506,113	0.03591	\$ 18,173		\$111,000	\$104,800	\$164,850	\$97,672	\$27,791.12
2051	\$ 621,333	0.03360	\$ 20,874	\$99,952	\$114,400	\$104,800	\$173,093	\$100,602	\$28,485.90
2052	\$ 754,620	0.03143	\$ 23,720	\$102,955	\$117,800	\$219,300	\$181,747	\$103,620	\$29,198.04
2053	\$ 669,330	0.02941	\$ 19,685	\$106,039	\$121,300	\$114,500	\$190,835	\$106,729	\$29,928.00
2054	\$ 689,703	0.02752	\$ 18,978	\$109,220	\$125,000	\$114,500	\$200,376	\$109,931	\$30,676.20
2055	\$ 835,863	0.02575	\$ 21,519	\$112,496	\$128,700	\$239,600	\$210,395	\$113,229	\$31,443.10
2056	\$ 743,341	0.02409	\$ 17,906	\$115,872	\$132,600	\$125,100	\$220,915	\$116,625	\$32,229.18
2057	\$ 766,068	0.02254	\$ 17,265	\$119,348	\$136,500	\$125,100	\$231,961	\$120,124	\$33,034.91
2058	\$ 926,405	0.02109	\$ 19,535	\$122,958	\$140,600	\$261,700	\$243,559	\$123,728	\$33,860.78
2059	\$ 826,000	0.01973	\$ 16,296	\$126,616	\$144,900	\$136,600	\$255,737	\$127,440	\$34,707.30
2060	\$ 851,576	0.01846	\$ 15,719	\$130,415	\$149,200	\$136,600	\$268,523	\$131,263	\$35,574.98
2061	\$ 1,028,142	0.01727	\$ 17,757	\$134,327	\$153,700	\$286,500	\$281,950	\$135,201	\$36,464.36
2062	\$ 780,880	0.01616	\$ 12,618		\$158,300	\$149,900	\$296,047	\$139,257	\$37,375.97
2063	\$ 805,494	0.01512	\$ 12,178		\$163,000	\$149,900	\$310,849	\$143,435	\$38,310.36
2064	\$ 994,998	0.01415	\$ 14,075		\$167,900	\$313,700	\$326,392	\$147,738	\$39,268.12
2065	\$ 871,831	0.01324	\$ 11,539		\$172,900	\$163,800	\$342,711	\$152,170	\$40,249.83
2066	\$ 899,738	0.01238	\$ 11,142		\$178,100	\$163,800	\$359,847	\$156,735	\$41,256.07
2067	\$ 1,107,864	0.01159	\$ 12,836		\$183,500	\$342,800	\$377,839	\$161,437	\$42,287.47
2068	\$ 974,356	0.01084	\$ 10,562		\$189,000	\$179,000	\$396,731	\$166,280	\$43,344.66
2069	\$ 1,005,865	0.01014	\$ 10,202		\$194,600	\$179,000	\$416,568	\$171,268	\$44,428.28
2070	\$ 1,038,842	0.00949	\$ 9,858		\$200,500	\$179,000	\$437,396	\$176,406	\$45,538.98
2071	\$ 894,142	0.00888	\$ 7,939		\$206,500		\$459,266	\$181,699	\$46,677.46
2072	\$ 929,923	0.00831	\$ 7,725		\$212,700		\$482,229	\$187,150	\$47,844.40
2073	\$ 967,245	0.00777	\$ 7,518		\$219,100		\$506,341	\$192,764	\$49,040.51
2074	\$ 1,006,071	0.00727	\$ 7,316		\$225,600		\$531,658	\$198,547	\$50,266.52
2075	\$ 1,255,948	0.00680	\$ 8,546	\$209,281	\$232,400		\$558,241	\$204,503	\$51,523.18
2076	\$ 1,304,562	0.00637	\$ 8,305	\$215,559	\$239,400		\$586,153	\$210,639	\$52,811.26
2077	\$ 1,355,176	0.00596	\$ 8,072	\$222,026	\$246,600		\$615,460	\$216,958	\$54,131.54
2078	\$ 1,407,252	0.00557	\$ 7,842	\$228,687	\$253,380		\$646,234	\$223,466	\$55,484.83
2079	\$ 1,462,136	0.00521	\$ 7,624	\$235,548	\$261,000		\$678,545	\$230,170	\$56,871.95
2080	\$ 1,519,256	0.00488	\$ 7,412	\$242,614	\$268,800		\$712,472	\$237,076	\$58,293.75
2081	\$ 1,578,827	0.00456	\$ 7,206	\$249,892	\$276,900		\$748,096	\$244,188	\$59,751.09

2082	\$ 1,640,848	0.00427	\$ 7,007	\$257,389	\$285,200	\$785,501	\$251,513	\$61,244.87	
2083	\$ 1,705,422	0.00400	\$ 6,814	\$265,111	\$293,700	\$824,776	\$259,059	\$62,775.99	
2084	\$ 1,772,755	0.00374	\$ 6,627	\$273,064	\$302,500	\$866,015	\$266,831	\$64,345.39	
2085	\$ 1,561,705	0.00350	\$ 5,463		\$311,600	\$909,315	\$274,836	\$65,954.03	
2086	\$ 1,626,465	0.00327	\$ 5,323		\$321,000	\$954,781	\$283,081	\$67,602.88	
2087	\$ 1,693,986	0.00306	\$ 5,187		\$330,600	\$1,002,520	\$291,573	\$69,292.95	
2088	\$ 1,764,492	0.00286	\$ 5,055		\$340,500	\$1,052,646	\$300,320	\$71,025.27	
2089	\$ 1,838,109	0.00268	\$ 4,927		\$350,700	\$1,105,279	\$309,330	\$72,800.91	
2090	\$ 1,914,973	0.00251	\$ 4,803		\$361,200	\$1,160,543	\$318,610	\$74,620.93	
2091	\$ 1,995,324	0.00235	\$ 4,682		\$372,100	\$1,218,570	\$328,168	\$76,486.45	
2092	\$ 2,079,210	0.00220	\$ 4,565		\$383,300	\$1,279,498	\$338,013	\$78,398.61	
2093	\$ 2,178,585	0.00205	\$ 4,475		\$406,600	\$1,343,473	\$348,153	\$80,358.58	
2094	\$ 2,270,412	0.00192	\$ 4,364		\$418,800	\$1,410,647	\$358,598	\$82,367.54	
2095	\$ 2,366,362	0.00180	\$ 4,255		\$431,400	\$1,481,179	\$369,356	\$84,426.73	
2096	\$ 2,466,512	0.00168	\$ 4,150		\$444,300	\$1,555,238	\$380,437	\$86,537.40	
2097	\$ 2,571,150	0.00157	\$ 4,047		\$457,600	\$1,633,000	\$391,850	\$88,700.83	
2098	\$ 2,680,501	0.00147	\$ 3,948		\$471,328	\$1,714,650	\$403,605	\$90,918.36	
2099	\$ 2,794,755	0.00138	\$ 3,851		\$485,468	\$1,800,382	\$415,713	\$93,191.31	
2100	\$ 2,914,139	0.00129	\$ 3,757		\$500,032	\$1,890,402	\$428,185	\$95,521.10	
<b>100 Yr Totals:</b>	\$ 82,531,437		\$ 2,862,936	\$4,682,568	\$ 16,030,343	\$4,907,700	\$39,392,045	\$ 13,933,958	\$ 3,584,823
<b>Avg Annual:</b>	\$ 5,685,493		\$ 197,224	\$29,693 *	\$50,151 *	\$ 20, 713*	\$45,618 *	\$39,630 *	\$12,835 *

\* Average Annual Costs calculated on each category's spreadsheet (not shown here). See individual spreadsheets.

\*\*Total sum of costs from all categories

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