

COMPOUND INTEREST AND ANNUITY TABLES -

SNAKE RIVER DAM COSTS

Beginning in 2015

All costs in Thousands of Dollars
Discount Rate: 4.75%

Total Annual Costs	Present Value	Cap. Recovery Factor	Annual Average
\$ 147,658,332	\$ 8,656,787	4.796%	\$ 415,179
Decommission (breach)			
Total Annual Average			\$415,179

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
2015	\$133,691	0.95465	\$127,629		\$39,400	\$16,200	\$31,670	\$34,711	\$11,710
2016	\$136,858	0.91136	\$124,728		\$40,600	\$16,200	\$32,303	\$35,752	\$12,003
2017	\$140,177	0.87004	\$121,959		\$41,900	\$16,200	\$32,949	\$36,825	\$12,303
2018	\$170,937	0.83058	\$141,978		\$43,100	\$42,700	\$34,596	\$37,930	\$12,611
2019	\$159,220	0.79292	\$126,249		\$44,400	\$26,500	\$36,326	\$39,068	\$12,926
2020	\$163,831	0.75697	\$124,015		\$45,700	\$26,500	\$38,143	\$40,240	\$13,249
2021	\$197,177	0.72264	\$142,488		\$47,100	\$55,000	\$40,050	\$41,447	\$13,580
2022	\$176,162	0.68987	\$121,529		\$48,500	\$29,000	\$42,052	\$42,690	\$13,920
2023	\$181,394	0.65859	\$119,464		\$49,859	\$29,000	\$44,155	\$43,971	\$14,268
2024	\$218,377	0.62872	\$137,299		\$51,500	\$60,600	\$46,363	\$45,290	\$14,625
2025	\$194,920	0.60021	\$116,993		\$53,000	\$31,600	\$48,681	\$46,649	\$14,990
2026	\$248,471	0.57300	\$142,373	\$47,743	\$54,600	\$31,600	\$51,115	\$48,048	\$15,365
2027	\$290,584	0.54701	\$158,953	\$49,175	\$56,300	\$66,200	\$53,670	\$49,490	\$15,749
2028	\$266,621	0.52221	\$139,232	\$50,650	\$57,900	\$34,600	\$56,354	\$50,974	\$16,143
2029	\$274,692	0.49853	\$136,941	\$52,170	\$59,700	\$34,600	\$59,172	\$52,504	\$16,546
2030	\$320,804	0.47592	\$152,678	\$53,735	\$61,500	\$72,400	\$62,130	\$54,079	\$16,960
2031	\$294,769	0.45434	\$133,925	\$55,347	\$63,300	\$37,800	\$65,237	\$55,701	\$17,384
2032	\$303,697	0.43374	\$131,725	\$57,008	\$65,200	\$37,800	\$68,499	\$57,372	\$17,819
2033	\$354,199	0.41407	\$146,663	\$58,718	\$67,200	\$79,000	\$71,924	\$59,093	\$18,264
2034	\$325,985	0.39529	\$128,860	\$60,479	\$69,200	\$41,200	\$75,520	\$60,866	\$18,721
2035	\$335,869	0.37737	\$126,746	\$62,293	\$71,200	\$41,200	\$79,296	\$62,692	\$19,189
2036	\$327,202	0.36026	\$117,876		\$73,400	\$86,300	\$83,260	\$64,573	\$19,669
2037	\$294,794	0.34392	\$101,385		\$75,600	\$45,100	\$87,424	\$66,510	\$20,160
2038	\$301,964	0.32832	\$99,142		\$75,900	\$45,100	\$91,795	\$68,505	\$20,664
2039	\$313,426	0.31344	\$98,239		\$80,200	\$45,100	\$96,384	\$70,560	\$21,181
2040	\$278,191	0.29922	\$83,241		\$82,600		\$101,204	\$72,677	\$21,710
2041	\$288,474	0.28565	\$82,404		\$85,100		\$106,264	\$74,857	\$22,253
2042	\$299,090	0.27270	\$81,562		\$87,600		\$111,577	\$77,103	\$22,809
2043	\$310,152	0.26034	\$80,743		\$90,200		\$117,156	\$79,416	\$23,380
2044	\$321,777	0.24853	\$79,971		\$93,000		\$123,014	\$81,799	\$23,964
2045	\$333,780	0.23726	\$79,193		\$95,800		\$129,164	\$84,253	\$24,563
2046	\$346,180	0.22650	\$78,410		\$98,600		\$135,623	\$86,780	\$25,177
2047	\$359,194	0.21623	\$77,669		\$101,600		\$142,404	\$89,384	\$25,807
2048	\$372,641	0.20643	\$76,923		\$104,600		\$149,524	\$92,065	\$26,452
2049	\$386,741	0.19706	\$76,213		\$107,800		\$157,000	\$94,827	\$27,113
2050	\$401,313	0.18813	\$75,498		\$111,000		\$164,850	\$97,672	\$27,791
2051	\$516,533	0.17960	\$92,768	\$99,952	\$114,400		\$173,093	\$100,602	\$28,486
2052	\$535,320	0.17145	\$91,783	\$102,955	\$117,800		\$181,747	\$103,620	\$29,198
2053	\$554,830	0.16368	\$90,814	\$106,039	\$121,300		\$190,835	\$106,729	\$29,928
2054	\$575,203	0.15626	\$89,879	\$109,220	\$125,000		\$200,376	\$109,931	\$30,676
2055	\$672,963	0.14917	\$100,387	\$112,496	\$128,700	\$76,700	\$210,395	\$113,229	\$31,443
2056	\$694,941	0.14241	\$98,964	\$115,872	\$132,600	\$76,700	\$220,915	\$116,625	\$32,229
2057	\$717,668	0.13595	\$97,566	\$119,348	\$136,500	\$76,700	\$231,961	\$120,124	\$33,035
2058	\$825,305	0.12978	\$107,112	\$122,958	\$140,600	\$160,600	\$243,559	\$123,728	\$33,861
2059	\$773,300	0.12390	\$95,811	\$126,616	\$144,900	\$83,900	\$255,737	\$127,440	\$34,707
2060	\$798,876	0.11828	\$94,492	\$130,415	\$149,200	\$83,900	\$268,523	\$131,263	\$35,575
2061	\$917,142	0.11292	\$103,561	\$134,327	\$153,700	\$175,500	\$281,950	\$135,201	\$36,464
2062	\$722,680	0.10780	\$77,903		\$158,300	\$91,700	\$296,047	\$139,257	\$37,376
2063	\$747,294	0.10291	\$76,903		\$163,000	\$91,700	\$310,849	\$143,435	\$38,310
2064	\$873,098	0.09824	\$85,775		\$167,900	\$191,800	\$326,392	\$147,738	\$39,268
2065	\$808,131	0.09379	\$85,792		\$172,900	\$100,100	\$342,711	\$152,170	\$40,250
2066	\$836,038	0.08953	\$74,854		\$178,100	\$100,100	\$359,847	\$156,735	\$41,256
2067	\$974,564	0.08547	\$83,300		\$183,500	\$209,500	\$377,839	\$161,437	\$42,287
2068	\$904,756	0.08160	\$73,827		\$189,000	\$109,400	\$396,731	\$166,280	\$43,345
2069	\$936,265	0.07790	\$72,933		\$194,600	\$109,400	\$416,568	\$171,268	\$44,428
2070	\$1,088,842	0.07437	\$80,973		\$200,500	\$229,000	\$437,396	\$176,406	\$45,539
2071	\$1,013,742	0.07099	\$71,969		\$206,500	\$119,600	\$459,266	\$181,699	\$46,677
2072	\$1,049,523	0.06777	\$71,131		\$212,700	\$119,600	\$482,229	\$187,150	\$47,844
2073	\$1,217,545	0.06470	\$78,777		\$219,100	\$250,300	\$506,341	\$192,764	\$49,041
2074	\$1,136,771	0.06177	\$70,215		\$225,600	\$130,700	\$531,658	\$198,547	\$50,267
2075	\$1,386,648	0.05897	\$81,766	\$209,281	\$232,400	\$130,700	\$558,241	\$204,503	\$51,523
2076	\$1,578,062	0.05629	\$88,833	\$215,559	\$239,400	\$273,500	\$586,153	\$210,639	\$52,811
2077	\$1,497,876	0.05374	\$80,496	\$222,026	\$246,600	\$142,700	\$615,460	\$216,958	\$54,132
2078	\$1,549,952	0.05130	\$79,517	\$228,687	\$253,380	\$142,700	\$646,234	\$223,466	\$55,485
2079	\$1,604,836	0.04898	\$78,599	\$235,548	\$261,000	\$142,700	\$678,545	\$230,170	\$56,872
2080	\$1,519,256	0.04676	\$71,034	\$242,614	\$268,800		\$712,472	\$237,076	\$58,294

2081	\$1,578,827	0.04464	\$70,472	\$249,892	\$276,900	\$748,096	\$244,188	\$59,751	
2082	\$1,640,848	0.04261	\$69,919	\$257,389	\$285,200	\$785,501	\$251,513	\$61,245	
2083	\$1,705,422	0.04068	\$69,375	\$265,111	\$293,700	\$824,776	\$259,059	\$62,776	
2084	\$1,772,755	0.03883	\$68,844	\$273,064	\$302,500	\$866,015	\$266,831	\$64,345	
2085	\$1,561,705	0.03707	\$57,898		\$311,600	\$909,315	\$274,836	\$65,954	
2086	\$1,626,465	0.03539	\$57,564		\$321,000	\$954,781	\$283,081	\$67,603	
2087	\$1,693,986	0.03379	\$57,236		\$330,600	\$1,002,520	\$291,573	\$69,293	
2088	\$1,764,492	0.03226	\$56,914		\$340,500	\$1,052,646	\$300,320	\$71,025	
2089	\$1,838,109	0.03079	\$56,600		\$350,700	\$1,105,279	\$309,330	\$72,801	
2090	\$1,914,973	0.02940	\$56,293		\$361,200	\$1,160,543	\$318,610	\$74,621	
2091	\$1,995,324	0.02806	\$55,995		\$372,100	\$1,218,570	\$328,168	\$76,486	
2092	\$2,079,210	0.02679	\$55,704		\$383,300	\$1,279,498	\$338,013	\$78,399	
2093	\$2,178,585	0.02558	\$55,719		\$406,600	\$1,343,473	\$348,153	\$80,359	
2094	\$2,270,412	0.02442	\$55,435		\$418,800	\$1,410,647	\$358,598	\$82,368	
2095	\$2,366,362	0.02331	\$55,158		\$431,400	\$1,481,179	\$369,356	\$84,427	
2096	\$2,466,512	0.02225	\$54,885		\$444,300	\$1,555,238	\$380,437	\$86,537	
2097	\$2,571,150	0.02124	\$54,619		\$457,600	\$1,633,000	\$391,850	\$88,701	
2098	\$2,680,501	0.02028	\$54,360		\$471,328	\$1,714,650	\$403,605	\$90,918	
2099	\$2,794,755	0.01936	\$54,107		\$485,468	\$1,800,382	\$415,713	\$93,191	
2100	\$3,352,323	0.01848	\$61,958	\$438,184.08	\$500,032	\$1,890,402	\$428,185	\$95,521	
2101	\$3,490,224	0.01764	\$61,582	\$451,329.60	\$515,033	\$1,984,922	\$ 441,030	\$97,909	
2102	\$3,634,139	0.01684	\$61,213	\$464,869.49	\$530,484	\$2,084,168	\$ 454,261	\$100,357	
2103	\$3,784,345	0.01608	\$60,853	\$478,815.58	\$546,398	\$2,188,376	\$ 467,889	\$102,866	
2104	\$3,941,129	0.01535	\$60,500	\$493,180.04	\$562,790	\$2,297,795	\$ 481,926	\$105,437	
2105	\$4,104,791	0.01465	\$60,155	\$507,975.44	\$579,674	\$2,412,685	\$ 496,384	\$108,073	
2106	\$4,275,648	0.01399	\$59,818	\$523,214.71	\$597,064	\$2,533,319	\$ 511,275	\$110,775	
2107	\$4,454,030	0.01336	\$59,488	\$538,911.15	\$614,976	\$2,659,985	\$ 526,613	\$113,545	
2108	\$4,640,283	0.01275	\$59,165	\$555,078.48	\$633,426	\$2,792,984	\$ 542,412	\$116,383	
2109	\$4,834,769	0.01217	\$58,849	\$571,730.84	\$652,428	\$2,932,633	\$ 558,684	\$119,293	
2110	\$4,448,986	0.01162	\$51,698		\$672,001	\$3,079,265	\$ 575,445	\$122,275	
2111	\$4,643,429	0.01109	\$51,511		\$692,161	\$3,233,228	\$ 592,708	\$125,332	
2112	\$4,846,770	0.01059	\$51,328		\$712,926	\$3,394,890	\$ 610,489	\$128,465	
2113	\$5,059,429	0.01011	\$51,151		\$734,314	\$3,564,634	\$ 628,804	\$131,677	
2114	\$5,281,846	0.00965	\$50,978		\$756,343	\$3,742,866	\$ 647,668	\$134,969	
2115	\$5,514,484	0.00921	\$50,810		\$779,034	\$3,930,009	\$ 667,098	\$138,343	
100 Yr Totals:	\$147,658,332		\$8,656,787	\$9,249,976	\$ 25,056,162	\$4,466,700	\$81,935,182	\$ 21,746,662	\$ 5,203,649
Avg Annual:	\$7,081,694		\$415,179						

**Total sum of costs from all categories

Revised 8 April 2014
Revised 2 May 2014
Revised 8 May 2014
Revised 30 June 2014
Revised by Chandra Johnson 13 October 2014
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Revised by Chandra Johnson 17 November 2014
Revised by Chandra and Jim 9 December 2014