# 1983 Varmin Report

1983

C-111280

# TABLE B-3: POWER COSTS AND CREDITS AND ANNUAL REPLACEMENT DEPOSITS FOR EACH AQUEDUCT PUMPING AND POWER RECOVERY PLANT[a]

(in dollars)

| Calendar Year | NORTH BAY AQUEDUCT Reach 1 North Bay Pumping Plant (1) | Reach 3 Cordelia Pumping Plant[b] (2) | Total (3) | SOUTH BAY AQUEDUCT Reach 2 South Bay and Del Valle Pumping Plants[c] (4) | CALIFORNIA AQUEDUCT Reach 1 Harvey O. Banks Delta Pumping Plant (5) | Reach 4 Dos Amigos Pumping Plant (6) | Reach 11A Buena Vista Pumping Plant (7) | Reach 15A Wheeler Ridge Pumping Plant (8) | Reach 16A Wind Gap Pumping Plant (9) | Reach 17E A.D. Edmonston Pumping Plant (10) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1962 | 0 | 0 | 0 | 38,130 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1963 | 0 | 0 | 0 | 58,871 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1964 | 0 | 0 | 0 | 75,239 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1965 | 0 | 0 | 0 | 146,297 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1966 | 0 | 0 | 0 | 198,643 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1967 | 0 | 0 | 0 | 229,629 | 26,982 | 0 | 0 | 0 | 0 | 0 |
| 1968 | 0 | 7,128 | 7,128 | 342,761 | 1,324,777 | 239,505 | 0 | 0 | 0 | 0 |
| 1969 | 0 | 8,557 | 8,557 | 279,751 | 855,304 | 143,403 | 0 | 0 | 0 | 0 |
| 1970 | 0 | 13,666 | 13,666 | 448,383 | 368,508 | 217,820 | 2,940 | 0 | 0 | 0 |
| 1971 | 0 | 10,626 | 10,626 | 422,057 | 597,946 | 229,306 | 156,540 | 23,021 | 18,577 | 29,067 |
| 1972 | 0 | 14,430 | 14,430 | 623,564 | 1,110,833 | 575,291 | 348,668 | 187,825 | 385,935 | 1,263,087 |
| 1973 | 0 | 14,453 | 14,453 | 485,534 | 918,234 | 493,776 | 511,904 | 514,487 | 883,725 | 3,139,297 |
| 1974 | 0 | 17,508 | 17,508 | 510,873 | 997,269 | 560,461 | 556,968 | 595,585 | 1,048,196 | 3,700,573 |
| 1975 | 0 | 14,801 | 14,801 | 382,106 | 1,353,916 | 561,089 | 650,781 | 707,038 | 1,394,918 | 4,853,538 |
| 1976 | 0 | 20,867 | 20,867 | 589,007 | 916,728 | 596,426 | 701,061 | 687,677 | 1,414,902 | 4,917,776 |
| 1977 | 0 | 22,640 | 22,640 | 541,803 | 653,304 | 191,906 | 170,689 | 173,496 | 337,890 | 1,130,422 |
| 1978 | 0 | 21,701 | 21,701 | 569,046 | 4,138,817 | 839,257 | 1,094,676 | 1,056,850 | 1,993,335 | 7,061,284 |
| 1979 | 0 | 16,249 | 16,249 | 621,602 | 3,421,367 | 1,019,385 | 849,644 | 832,056 | 1,669,651 | 5,751,042 |
| 1980 | 0 | 22,403 | 22,403 | 587,834 | 2,705,898 | 1,286,433 | 1,127,951 | 1,117,138 | 2,289,421 | 7,640,086 |
| 1981 | 0 | 25,602 | 25,602 | 671,802 | 3,120,924 | 1,502,593 | 1,331,716 | 1,327,406 | 2,688,689 | 8,878,511 |
| 1982 | 0 | 14,000 | 14,000 | 585,000 | 4,738,217 | 2,084,980 | 1,932,836 | 1,906,746 | 3,916,674 | 13,445,547 |
| 1983 | 0 | 38,000 | 38,000 | 2,008,600 | 12,335,901 | 5,304,863 | 6,076,691 | 5,842,942 | 12,991,807 | 46,237,539 |
| 1984 | 0 | 49,100 | 49,100 | 2,535,400 | 18,587,394 | 6,962,266 | 7,853,096 | 7,488,470 | 16,762,268 | 60,618,762 |
| 1985 | 14,400 | 52,800 | 67,200 | 2,666,600 | 18,672,288 | 8,447,108 | 10,191,526 | 9,811,688 | 22,223,762 | 80,995,395 |
| 1986 | 79,000 | 62,800 | 141,800 | 2,891,200 | 20,011,297 | 8,715,214 | 10,199,373 | 9,688,268 | 21,926,133 | 79,805,221 |
| 1987 | 89,500 | 60,000 | 149,500 | 2,833,701 | 21,117,898 | 8,900,961 | 10,450,965 | 9,904,045 | 22,441,505 | 81,723,250 |
| 1988 | 121,800 | 64,700 | 186,500 | 3,017,994 | 21,804,022 | 9,826,801 | 11,598,397 | 10,998,608 | 24,897,502 | 89,946,759 |
| 1989 | 160,000 | 73,100 | 233,100 | 3,295,009 | 25,911,051 | 10,818,563 | 12,790,613 | 12,102,019 | 27,404,729 | 98,775,976 |
| 1990 | 199,000 | 81,500 | 280,500 | 3,436,507 | 25,848,318 | 11,498,863 | 13,444,445 | 12,725,541 | 28,820,590 | 103,674,975 |
| 1991 | 225,000 | 102,800 | 327,800 | 3,930,300 | 29,420,628 | 12,861,251 | 15,402,782 | 14,602,521 | 33,244,924 | 120,092,510 |
| 1992 | 226,800 | 114,700 | 341,500 | 3,977,900 | 30,100,142 | 13,196,622 | 15,834,447 | 15,095,691 | 34,394,318 | 124,520,255 |
| 1993 | 237,300 | 130,400 | 367,700 | 4,194,900 | 31,820,499 | 13,798,920 | 16,547,894 | 15,806,291 | 36,047,483 | 130,838,246 |
| 1994 | 245,900 | 145,800 | 391,700 | 4,354,200 | 34,578,910 | 14,122,446 | 16,907,772 | 16,162,760 | 36,898,603 | 134,033,991 |
| 1995 | 252,900 | 159,400 | 412,300 | 4,432,600 | 31,915,399 | 14,086,776 | 16,715,987 | 15,953,561 | 36,430,762 | 132,281,435 |
| 1996 | 278,000 | 186,800 | 464,800 | 4,826,400 | 35,992,521 | 15,892,932 | 19,309,309 | 18,535,600 | 42,395,360 | 154,345,651 |
| 1997 | 270,700 | 191,600 | 462,300 | 4,647,700 | 35,640,673 | 15,211,774 | 18,173,813 | 17,425,709 | 39,849,105 | 144,610,325 |
| 1998 | 274,200 | 203,800 | 478,000 | 4,611,600 | 34,251,882 | 15,442,108 | 18,377,485 | 17,617,694 | 40,427,365 | 146,345,773 |
| 1999 | 280,900 | 218,400 | 499,300 | 4,653,200 | 34,747,863 | 15,696,300 | 18,522,197 | 17,764,206 | 40,819,636 | 147,330,678 |
| 2000 | 295,800 | 240,000 | 535,800 | 4,817,100 | 37,984,038 | 16,942,009 | 20,313,837 | 19,579,937 | 45,117,427 | 162,647,560 |
| 2001 | 303,300 | 252,800 | 556,100 | 4,884,000 | 38,668,635 | 17,022,644 | 20,245,676 | 19,472,388 | 44,848,623 | 161,278,304 |
| 2002 | 320,500 | 272,600 | 593,100 | 5,052,000 | 39,547,602 | 18,048,092 | 21,597,476 | 20,824,768 | 47,966,455 | 172,249,791 |
| 2003 | 326,600 | 281,400 | 608,000 | 5,042,100 | 37,857,922 | 17,961,792 | 21,559,704 | 20,789,920 | 47,741,828 | 171,430,601 |
| 2004 | 344,500 | 304,400 | 648,900 | 5,258,200 | 41,802,006 | 18,942,291 | 22,962,222 | 22,182,484 | 50,832,008 | 182,671,719 |
| 2005 | 360,900 | 323,500 | 684,400 | 5,408,300 | 43,744,602 | 19,559,315 | 23,834,271 | 23,044,222 | 52,681,227 | 189,330,297 |
| 2006 | 370,500 | 333,300 | 703,800 | 5,527,000 | 43,096,352 | 20,188,543 | 24,778,175 | 23,989,907 | 54,749,015 | 196,741,548 |
| 2007 | 383,400 | 345,200 | 728,600 | 5,676,300 | 45,420,694 | 20,823,855 | 25,568,796 | 24,755,958 | 56,671,506 | 203,789,270 |
| 2008 | 398,500 | 358,100 | 756,600 | 5,828,700 | 47,360,965 | 21,569,266 | 26,610,003 | 25,786,847 | 59,051,586 | 212,453,825 |
| 2009 | 405,300 | 364,200 | 769,500 | 5,873,100 | 46,765,054 | 21,670,166 | 26,695,621 | 25,862,167 | 59,218,311 | 212,960,838 |
| 2010 | 431,200 | 390,200 | 821,400 | 6,224,400 | 55,692,236 | 23,522,349 | 29,362,692 | 28,520,064 | 65,395,235 | 235,568,237 |
| 2011 | 419,600 | 382,400 | 802,000 | 6,001,200 | 49,538,933 | 21,785,468 | 26,598,792 | 25,716,479 | 58,817,743 | 211,161,681 |
| 2012 | 431,600 | 397,800 | 829,400 | 6,119,700 | 49,366,505 | 22,629,686 | 27,848,673 | 26,977,148 | 61,734,910 | 221,763,276 |
| 2013 | 447,800 | 413,100 | 860,900 | 6,243,000 | 50,317,914 | 22,925,797 | 28,163,562 | 27,266,320 | 62,395,087 | 224,064,776 |
| 2014 | 458,300 | 425,000 | 883,300 | 6,316,300 | 50,095,568 | 23,459,116 | 28,965,161 | 28,075,273 | 64,275,744 | 230,889,996 |
| 2015 | 473,000 | 441,100 | 914,100 | 6,453,200 | 53,762,040 | 24,078,256 | 29,834,656 | 28,937,441 | 66,275,111 | 238,164,248 |
| 2016 | 479,000 | 450,800 | 929,800 | 6,493,400 | 52,881,178 | 24,443,395 | 30,404,317 | 29,518,588 | 67,624,405 | 243,051,444 |
| 2017 | 485,900 | 459,400 | 945,300 | 6,496,000 | 53,834,027 | 24,189,510 | 30,201,654 | 29,306,659 | 67,123,342 | 241,181,640 |
| 2018 | 492,800 | 467,900 | 960,700 | 6,518,600 | 53,468,042 | 24,196,994 | 30,435,784 | 29,543,639 | 67,670,295 | 243,156,741 |
| 2019 | 499,700 | 477,500 | 977,200 | 6,545,100 | 54,067,636 | 24,055,050 | 30,412,534 | 29,510,519 | 67,495,693 | 242,815,117 |
| 2020 | 515,800 | 492,200 | 1,008,000 | 6,642,400 | 56,080,578 | 24,422,661 | 31,065,687 | 30,159,100 | 68,903,108 | 248,184,196 |
| 2021 | 508,100 | 485,500 | 993,600 | 6,545,200 | 51,998,220 | 23,843,898 | 30,246,127 | 29,347,007 | 67,162,430 | 241,991,349 |
| 2022 | 524,100 | 496,200 | 1,020,300 | 6,698,400 | 56,927,439 | 24,292,220 | 31,379,702 | 30,489,374 | 69,695,858 | 252,402,471 |
| 2023 | 516,400 | 488,600 | 1,005,000 | 6,601,300 | 54,076,820 | 23,335,304 | 30,366,584 | 29,467,598 | 66,940,276 | 243,308,211 |
| 2024 | 527,100 | 495,100 | 1,022,200 | 6,688,000 | 54,765,781 | 23,539,929 | 31,147,724 | 30,251,883 | 68,369,638 | 249,860,986 |
| 2025 | 526,500 | 494,500 | 1,021,000 | 6,689,100 | 55,212,058 | 23,424,241 | 30,937,463 | 30,034,252 | 67,482,085 | 247,891,084 |
| 2026 | 533,000 | 498,000 | 1,031,000 | 6,733,000 | 57,309,948 | 23,625,044 | 31,228,875 | 30,324,946 | 67,886,707 | 250,279,539 |
| 2027 | 532,000 | 497,000 | 1,029,000 | 6,716,000 | 53,535,916 | 23,622,272 | 31,257,892 | 30,360,511 | 67,713,495 | 250,590,047 |
| 2028 | 533,000 | 498,000 | 1,031,000 | 6,728,000 | 55,249,316 | 23,644,865 | 31,183,322 | 30,375,998 | 67,751,243 | 250,718,564 |
| 2029 | 534,000 | 499,000 | 1,033,000 | 6,743,000 | 55,613,295 | 23,680,564 | 31,129,509 | 30,282,382 | 67,836,057 | 251,022,992 |
| 2030 | 533,000 | 498,000 | 1,031,000 | 6,731,000 | 56,616,209 | 23,400,168 | 30,851,258 | 29,964,211 | 67,400,068 | 249,149,743 |
| 2031 | 536,000 | 501,000 | 1,037,000 | 6,773,000 | 54,003,748 | 23,528,519 | 31,161,879 | 30,310,215 | 68,492,128 | 252,792,458 |
| 2032 | 534,000 | 499,000 | 1,033,000 | 6,745,000 | 55,669,000 | 23,069,849 | 30,514,656 | 29,627,039 | 67,290,110 | 247,983,038 |
| 2033 | 539,000 | 503,000 | 1,042,000 | 6,800,000 | 53,959,000 | 23,619,078 | 31,271,754 | 30,376,186 | 69,408,136 | 255,229,566 |
| 2034 | 528,000 | 494,000 | 1,022,000 | 6,670,000 | 49,455,000 | 22,707,780 | 29,681,747 | 28,747,307 | 65,987,190 | 242,220,010 |
| 2035 | 548,000 | 513,000 | 1,061,000 | 6,924,000 | 64,391,000 | 24,111,117 | 31,636,527 | 30,675,821 | 70,861,828 | 260,235,900 |

| Calendar Year | CALIFORNIA AQUEDUCT Reach 18A Alamo Powerplant (11) | Reach 22B Pearblossom Pumping Plant (12) | Reach 23 Mojave Siphon (13) | Reach 26A Devil Canyon Powerplant (14) | Reach 29A Oso Pumping Plant (15) | Reach 29G William E. Warne Powerplant (Pyramid) (16) | Reach 29J Castaic Powerplant (17) | Reach 31A Las Perillas and Badger Hill Pumping Plants (18) | Reach 33A Devil's Den Sawtooth and Polonio PP's and San Luis Obispo Pwp. (19) | GRAND TOTAL (20) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1962 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38,130 |
| 1963 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58,871 |
| 1964 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75,239 |
| 1965 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 146,297 |
| 1966 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 198,643 |
| 1967 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,517 | 0 | 263,128 |
| 1968 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,278 | 0 | 2,034,449 |
| 1969 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79,620 | 0 | 1,366,635 |
| 1970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 137,449 | 0 | 1,188,766 |
| 1971 | 0 | 64,807 | 0 | 0 | 1,696 | 0 | 0 | 171,389 | 0 | 1,725,032 |
| 1972 | 0 | 103,584 | 0 | -3,112 | 180,005 | 0 | -385,696 | 240,651 | 0 | 4,645,065 |
| 1973 | 0 | 615,309 | 0 | -931,697 | 274,450 | 0 | -1,193,216 | 128,730 | 0 | 5,854,986 |
| 1974 | 0 | 595,646 | 0 | -939,072 | 322,440 | 0 | -1,823,397 | 129,345 | 0 | 6,272,395 |
| 1975 | 0 | 616,327 | 0 | -1,101,445 | 457,487 | 0 | -2,835,302 | 101,109 | 0 | 7,156,363 |
| 1976 | 0 | 914,440 | 0 | -1,520,412 | 314,669 | 0 | -2,512,021 | 151,211 | 0 | 7,192,331 |
| 1977 | 0 | 318,880 | 0 | -1,216,060 | 53,119 | 0 | -1,233,043 | 85,538 | 0 | 1,230,584 |
| 1978 | 0 | 1,783,155 | 0 | -3,298,247 | 355,285 | 0 | -3,828,774 | 197,521 | 0 | 11,983,906 |
| 1979 | 0 | 1,807,731 | 0 | -3,335,069 | 158,795 | 0 | -2,642,118 | 208,639 | 0 | 10,378,974 |
| 1980 | 0 | 2,066,216 | 0 | -5,919,482 | 188,660 | 0 | -5,962,554 | 206,000 | 0 | 7,356,004 |
| 1981 | 0 | 2,382,411 | 0 | -6,067 | 298,678 | 0 | -2,061,867 | 238,749 | 0 | 20,399,147 |
| 1982 | 0 | 2,503,038 | 0 | -3,887,045 | 1,116,965 | -919,000 | -3,923,800 | 194,000 | 0 | 23,708,158 |
| 1983 | 0 | 8,004,711 | 0 | -18,807,580 | 2,467,724 | -5,079,800 | -10,058,000 | 559,000 | 0 | 67,922,398 |
| 1984 | 0 | 10,165,161 | 0 | -20,463,614 | 3,190,479 | -7,123,400 | -13,210,600 | 735,000 | 0 | 94,149,782 |
| 1985 | -8,375,495 | 15,332,511 | -3,245,090 | -29,604,736 | 3,497,701 | -8,032,835 | -14,175,737 | 788,000 | 0 | 109,259,886 |
| 1986 | -7,998,440 | 14,194,117 | -5,953,100 | -26,907,475 | 3,770,590 | -8,157,911 | -14,288,628 | 871,000 | 0 | 108,908,659 |
| 1987 | -8,964,315 | 15,258,174 | -6,456,539 | -29,591,687 | 3,561,544 | -8,064,483 | -13,909,875 | 859,000 | 0 | 110,213,644 |
| 1988 | -8,995,687 | 16,017,742 | -6,550,104 | -28,808,385 | 4,238,557 | -8,836,405 | -15,443,550 | 907,000 | 0 | 124,805,751 |
| 1989 | -8,879,587 | 16,756,038 | -6,669,969 | -27,630,992 | 4,991,917 | -9,747,364 | -16,880,097 | 968,000 | 0 | 144,239,006 |
| 1990 | -8,917,008 | 17,023,223 | -6,862,654 | -27,301,553 | 5,459,621 | -10,501,817 | -17,968,833 | 1,185,900 | 0 | 151,846,618 |
| 1991 | -10,428,709 | 22,042,804 | -9,806,288 | -32,917,976 | 4,892,385 | -8,600,900 | -14,785,800 | 1,333,700 | 0 | 181,611,932 |
| 1992 | -10,563,998 | 21,983,835 | -10,310,368 | -32,964,101 | 5,673,972 | -10,156,000 | -17,245,600 | 1,324,900 | 0 | 185,203,515 |
| 1993 | -10,316,022 | 21,839,404 | -10,266,339 | -32,005,655 | 6,465,606 | -11,330,200 | -19,169,200 | 1,373,300 | 0 | 196,012,827 |
| 1994 | -10,099,298 | 21,527,237 | -9,381,995 | -31,216,793 | 6,924,517 | -11,984,800 | -20,265,800 | 1,408,800 | 0 | 204,362,250 |
| 1995 | -9,594,157 | 20,406,963 | -9,090,464 | -29,316,133 | 7,106,815 | -12,272,700 | -20,669,700 | 1,436,900 | 0 | 200,236,344 |
| 1996 | -9,927,324 | 22,704,464 | -9,402,334 | -29,953,194 | 7,720,386 | -14,085,700 | -23,727,100 | 1,569,000 | 0 | 236,660,771 |
| 1997 | -9,951,786 | 21,774,329 | -9,826,795 | -30,750,871 | 7,037,591 | -13,777,900 | -23,497,600 | 1,514,100 | 0 | 218,542,467 |
| 1998 | -10,221,900 | 22,217,782 | -9,751,600 | -30,973,969 | 7,012,445 | -13,998,200 | -23,372,200 | 1,513,600 | 0 | 219,977,865 |
| 1999 | -10,131,700 | 22,116,818 | -9,989,700 | -31,115,490 | 8,379,470 | -13,984,300 | -23,499,300 | 1,546,200 | 0 | 223,355,378 |
| 2000 | -10,078,500 | 22,670,159 | -9,087,800 | -30,737,590 | 10,080,730 | -16,251,400 | -27,210,100 | 1,621,200 | 0 | 248,944,407 |
| 2001 | -10,374,200 | 23,658,760 | -9,585,600 | -31,452,499 | 9,392,779 | -15,010,000 | -25,072,200 | 1,663,100 | 0 | 250,196,510 |
| 2002 | -10,441,000 | 24,598,903 | -9,313,200 | -31,166,558 | 10,365,791 | -15,931,800 | -26,676,600 | 1,740,500 | 0 | 269,055,320 |
| 2003 | -10,360,800 | 24,314,460 | -9,114,400 | -31,103,087 | 10,380,772 | -15,923,900 | -26,668,000 | 1,756,900 | 0 | 266,273,812 |
| 2004 | -10,330,700 | 25,231,966 | -9,215,000 | -31,173,266 | 11,425,189 | -16,758,200 | -28,023,300 | 1,852,700 | 0 | 288,309,219 |
| 2005 | -10,346,400 | 25,974,592 | -9,352,400 | -31,104,247 | 11,969,400 | -17,006,700 | -28,418,100 | 1,927,300 | 0 | 301,930,079 |
| 2006 | -10,541,400 | 27,091,694 | -9,557,100 | -31,605,518 | 12,389,200 | -17,206,900 | -28,824,600 | 1,979,200 | 0 | 313,498,916 |
| 2007 | -10,762,400 | 28,331,900 | -9,950,000 | -32,078,064 | 12,635,452 | -17,170,300 | -28,712,400 | 2,043,500 | 0 | 327,772,667 |
| 2008 | -10,920,000 | 29,473,531 | -9,641,500 | -32,490,556 | 13,171,849 | -17,369,700 | -29,155,000 | 2,109,500 | 0 | 344,595,916 |
| 2009 | -10,872,200 | 29,460,846 | -10,047,900 | -32,506,294 | 13,199,568 | -17,267,300 | -28,984,700 | 2,135,000 | 0 | 344,931,777 |
| 2010 | -11,291,400 | 32,470,840 | -10,336,700 | -33,337,984 | 14,641,431 | -16,973,900 | -30,354,900 | 2,273,900 | 0 | 392,197,900 |
| 2011 | -10,341,500 | 28,368,905 | -9,238,900 | -30,442,493 | 13,342,502 | -15,253,300 | -28,676,000 | 2,198,400 | 0 | 350,379,910 |
| 2012 | -10,350,700 | 28,979,480 | -9,091,500 | -29,961,167 | 14,416,038 | -16,239,300 | -30,303,900 | 2,248,500 | 0 | 366,966,749 |
| 2013 | -10,223,900 | 29,132,949 | -8,669,400 | -30,373,590 | 14,584,726 | -16,162,000 | -30,121,300 | 2,298,400 | 0 | 372,703,241 |
| 2014 | -10,312,900 | 29,776,184 | -9,078,300 | -29,807,820 | 15,157,529 | -16,564,000 | -30,916,600 | 2,330,700 | 0 | 383,545,251 |
| 2015 | -10,635,300 | 31,483,124 | -9,464,000 | -31,499,544 | 15,312,341 | -16,439,700 | -30,642,200 | 2,380,400 | 0 | 398,914,173 |
| 2016 | -10,464,300 | 31,077,125 | -9,021,500 | -30,806,476 | 16,119,649 | -17,178,700 | -31,971,900 | 2,394,200 | 0 | 405,494,625 |
| 2017 | -10,658,600 | 31,764,500 | -9,090,000 | -31,360,973 | 15,584,154 | -16,738,700 | -30,948,000 | 2,394,800 | 0 | 404,225,313 |
| 2018 | -10,491,700 | 31,305,042 | -8,958,100 | -31,183,551 | 16,036,799 | -16,966,500 | -31,634,100 | 2,403,500 | 0 | 406,462,185 |
| 2019 | -10,490,800 | 31,438,448 | -9,142,200 | -31,353,330 | 15,927,660 | -16,899,700 | -31,314,000 | 2,414,200 | 0 | 406,459,127 |
| 2020 | -10,743,100 | 32,787,720 | -9,134,400 | -31,350,106 | 16,016,775 | -16,771,700 | -31,061,000 | 2,450,200 | 0 | 418,660,119 |
| 2021 | -10,336,200 | 30,918,987 | -8,790,100 | -30,810,624 | 16,088,912 | -17,137,000 | -31,573,600 | 2,415,300 | 0 | 402,903,506 |
| 2022 | -10,777,300 | 33,196,749 | -9,190,400 | -31,779,923 | 16,427,826 | -17,076,600 | -31,524,500 | 2,471,300 | 0 | 424,652,916 |
| 2023 | -10,473,600 | 31,670,846 | -9,138,700 | -31,388,191 | 15,994,144 | -16,892,800 | -31,112,900 | 2,435,500 | 0 | 406,195,392 |
| 2024 | -10,666,700 | 32,766,513 | -9,455,500 | -31,459,899 | 16,356,055 | -16,991,600 | -31,377,800 | 2,467,100 | 0 | 417,284,310 |
| 2025 | -10,620,900 | 32,606,363 | -9,149,700 | -31,441,467 | 16,182,447 | -16,893,500 | -31,064,100 | 2,467,600 | 0 | 414,778,026 |
| 2026 | -10,492,000 | 32,355,198 | -9,000,000 | -31,386,677 | 16,596,820 | -17,055,000 | -31,591,500 | 2,483,000 | 0 | 420,328,900 |
| 2027 | -10,599,000 | 32,657,800 | -9,497,000 | -31,602,000 | 16,516,066 | -16,909,000 | -31,494,500 | 2,477,000 | 0 | 416,374,499 |
| 2028 | -10,565,000 | 32,592,064 | -9,129,000 | -31,436,000 | 16,283,673 | -17,082,000 | -31,536,500 | 2,482,000 | 0 | 418,291,545 |
| 2029 | -10,657,000 | 32,987,402 | -9,090,000 | -31,589,000 | 15,881,895 | -16,812,000 | -31,226,500 | 2,487,000 | 0 | 419,322,596 |
| 2030 | -10,367,000 | 31,902,212 | -9,033,000 | -31,344,000 | 16,052,613 | -17,145,000 | -31,744,500 | 2,483,000 | 0 | 415,947,982 |
| 2031 | -10,768,000 | 33,532,335 | -9,313,000 | -31,768,000 | 15,792,446 | -16,840,000 | -31,224,500 | 2,498,000 | 0 | 420,008,228 |
| 2032 | -10,341,000 | 31,724,119 | -9,151,000 | -31,186,000 | 15,820,848 | -17,106,000 | -31,640,500 | 2,488,000 | 0 | 412,540,159 |
| 2033 | -10,817,000 | 33,529,603 | -9,479,000 | -31,879,000 | 15,877,013 | -17,148,000 | -31,740,500 | 2,508,000 | 0 | 422,556,836 |
| 2034 | -10,491,000 | 31,612,820 | -8,912,000 | -31,425,000 | 14,843,967 | -16,743,000 | -30,801,500 | 2,460,000 | 0 | 397,035,321 |
| 2035 | -10,533,000 | 32,812,379 | -9,108,000 | -31,156,000 | 16,186,000 | -17,593,000 | -32,744,500 | 2,553,000 | 0 | 440,314,072 |

a) Includes the costs of electric capacity and energy used by pumping plants, exclusive of associated power transmission and station service charges; the value of electric capacity and energy produced by power recovery plants (treated as negative costs); the payments to sinking fund reserves that will finance periodic replacement of electro-mechanical equipment; and the plant capacity and energy costs associated with surplus water service prior to May 1,1973.

b) Power costs for the period 1968 through 1984 are for an interim facility.

c) The estimated costs of Del Valle Pumping Plant are combined with those of South Bay Pumping Plant to simplify the cost allocations.



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# TABLE 27: PROJECT OPERATING COSTS

(in thousands of dollars)

| FEATURE | CALENDAR YEAR | | | | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1962-1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991-2035 | |
| BY PROJECT FACILITY | | | | | | | | | | | |
| Feather River Facilities | 84,799 | - 1,106 | - 8,319 | - 9,398 | -13,873 | -14,962 | -15,143 | -15,208 | -15,191 | - 682,496 | - 690,897 |
| North Bay Aqueduct | 1,502 | 178 | 206 | 208 | 230 | 479 | 466 | 543 | 579 | 45,148 | 49,539 |
| Delta Facilities | 0 | 272 | 206 | 303 | 333 | 262 | 256 | 256 | 257 | 11,528 | 13,673 |
| South Bay Aqueduct | 27,179 | 4,576 | 5,873 | 6,130 | 6,032 | 6,039 | 6,074 | 6,156 | 6,293 | 371,982 | 446,334 |
| GOVERNOR EDMUND G. BROWN CALIFORNIA AQUEDUCT: | | | | | | | | | | | |
| Main Line - Delta to A. D. Edmonston | 270,094 | 86,781 | 108,896 | 111,002 | 109,609 | 108,513 | 108,679 | 113,002 | 121,295 | 8,683,773 | 9,821,644 |
| Main Line - A. D. Edmonston to Perris | 146,130 | 64,257 | 88,570 | 95,611 | 92,410 | 85,441 | 83,296 | 90,611 | 93,319 | 7,920,119 | 8,759,764 |
| West Branch | 32,039 | - 126 | 3,707 | - 9,079 | -14,220 | -16,518 | -14,698 | -21,483 | -18,383 | -1,156,578 | -1,215,339 |
| Coastal Branch | 14,077 | 1,936 | 2,051 | 2,058 | 2,132 | 2,151 | 2,187 | 2,166 | 2,188 | 144,750 | 175,696 |
| Additional Conservation Facilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 174,399 | 174,399 |
| Off-Aqueduct Power Generating Facilities | 0 | 8,348 | 29,412 | 46,135 | 53,723 | 66,633 | 67,079 | 68,035 | 67,131 | 1,406,322 | 1,812,818 |
| Water Quality Monitoring | 30,153 | 3,359 | 3,117 | 3,546 | 3,637 | 3,627 | 3,621 | 3,626 | 3,631 | 178,466 | 236,783 |
| Davis-Grunsky Act Program | 1,075 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 6,750 | 9,025 |
| TOTAL OPERATING COSTS | 607,048 | 168,625 | 233,869 | 246,666 | 240,163 | 241,815 | 241,967 | 247,854 | 261,269 | 17,104,163 | 19,593,439 |
| BY COMPOSITION: | | | | | | | | | | | |
| Salaries & Expenses of Headquarters Personnel | 206,358 | 25,399 | 26,598 | 27,444 | 27,578 | 28,030 | 27,971 | 27,971 | 27,971 | 1,167,538 | 1,592,858 |
| Salaries & Expenses of Field Personnel | 313,486 | 47,231 | 53,712 | 52,460 | 48,102 | 47,093 | 47,333 | 47,241 | 47,378 | 2,319,101 | 3,023,137 |
| Pumping Power | | | | | | | | | | | |
| Used by Pumping Plants | 167,213 | 108,312 | 166,913 | 185,904 | 185,519 | 177,928 | 178,986 | 186,890 | 203,394 | 16,469,107 | 18,030,166 |
| Produced by Recovery Plants | -43,143 | -30,371 | -52,082 | -76,023 | -85,262 | -88,553 | -90,419 | -94,115 | -96,664 | -5,259,558 | -5,916,190 |
| Deposits to Replacement Reserves | 28,009 | 9,780 | 9,423 | 11,025 | 10,932 | 10,805 | 10,983 | 11,734 | 11,930 | 990,173 | 1,104,794 |
| Off-Aqueduct Power Generating Facilities Requirement | | 8,348 | 29,412 | 46,135 | 53,723 | 66,633 | 67,079 | 68,035 | 67,131 | 1,406,322 | 1,812,818 |
| Oroville-Thermalito Insurance Premiums | 4,418 | 337 | 328 | 300 | 300 | 300 | 300 | 300 | 300 | 13,500 | 20,383 |
| Less: Portion of Costs Incurred During Construction | 69,293 | 411 | 435 | 579 | 729 | 421 | 266 | 202 | 171 | 2,020 | 74,527 |
| TOTAL OPERATING COSTS | 607,048 | 168,625 | 233,869 | 246,666 | 240,163 | 241,815 | 241,967 | 247,854 | 261,269 | 17,104,163 | 19,593,439 |
| BY PROJECT PURPOSE: | | | | | | | | | | | |
| Water Supply & Power Generation | 556,437 | 159,037 | 221,764 | 235,404 | 230,753 | 232,471 | 232,507 | 238,516 | 251,606 | 16,427,817 | 18,786,312 |
| Recreation and Fish & Wildlife Enhancement | 14,603 | 3,421 | 4,310 | 4,411 | 4,285 | 4,206 | 4,318 | 4,194 | 4,519 | 237,677 | 285,944 |
| Flood Control | 650 | 28 | 149 | 159 | 164 | 164 | 164 | 164 | 165 | 7,958 | 9,765 |
| Miscellaneous Purposes: | | | | | | | | | | | |
| Federal Share, San Luis and Delta Facilities | 32,751 | 5,745 | 7,216 | 6,367 | 4,631 | 4,644 | 4,648 | 4,650 | 4,649 | 415,861 | 491,162 |
| Other (Davis-Grunsky, Drainage, City of Los Angeles) | 2,607 | 394 | 430 | 325 | 330 | 330 | 330 | 330 | 330 | 14,850 | 20,256 |
| TOTAL OPERATING COSTS | 607,048 | 168,625 | 233,869 | 246,666 | 240,163 | 241,815 | 241,967 | 247,854 | 261,269 | 17,104,163 | 19,593,439 |

# 132-83 PROJECT OPERATING COSTS (TABLE 27)

## 1985 COSTS BY PLANT ($1,000)

D. Knock 9-23-83
M. Duett 9-23-83

| | | VARMIN COSTS | | VAR. OMP+R ADJUST. FOR FUTURE G.W. PROGRAM * | VAR. OMP+R ADJUST. FOR ADDED POWER SALES * | Total |
|---|---|---|---|---|---|---|
| | | VAR. OMP+R | MIN. OMP+R | | | |
| Small Hydro * | | — | -1434 | — | — | -1434 |
| Hyatt-Thermo | 2200 2300 2400 | -23460 | 209 | — | — | -23,251 |
| San Luis | 5600 | -3219 | 0 | — | — | -3,219 |
| Alamo | 7210 | -1668 | 0 | +210 | — | -1,458 |
| Devil Cyn. | 8010 | -25351 | 0 | +3485 | — | -21,866 |
| Warne | 8370 | -9665 | 582 | — | — | -9,083 |
| Castaic | 8390 | -16214 | 502 | — | — | -15,712 |
| Recovery Total | | -75577 | -141 | +3695 | — | -76,023 |
| Hyatt-Thermo | 2200 2300 2400 | — | — | — | — | — |
| Cordelia | 4210 | 18 | 8 | — | 2 | 28 |
| Delta | 5400 | 16136 | 1502 | -623 | 2,248 | 19,263 |
| So. Bay Del Valle | 4600 5000 | 2390 | 281 | -168 | 333 | 2,836 |
| San Luis | 5600 | 2950 | 596 | — | 411 | 3,957 |
| Dos Amigos | 5300 | 7238 | 747 | -307 | 1,008 | 8,686 |
| Los Perillas Badger Hill | 8510 | 746 | 90 | — | 104 | 940 |
| Buena Vista | 6810 | 8469 | 1019 | -536 | 1,180 | 10,132 |
| Wheeler R. | 6910 | 9532 | 1110 | -655 | 1,328 | 11,315 |
| Wind Gap | 7010 | 20051 | 2328 | -1400 | 2,793 | 23,772 |
| AD Edmon. | 7150 | 69138 | 12367 | -4865 | 9,629 | 86,269 |
| Pear | 7640 | 11986 | 1430 | -1615 | 1,670 | 13,471 |
| Oso | 8310 | 3654 | 1072 | — | 509 | 5,235 |
| Pumping Total | | 152,308 | 22,550 | -10,169 | 21,215 | 185,904 |

* See backup data for Table 27.

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132-83 PROJECT OPERATING COSTS (TABLE 27)

1984 COSTS BY PLANT ($1,000)

M. Duett 9-23-83
D. Knock 9-26-83

| Plant | Reach Code | VARMIN COSTS Var. OMP+R | VARMIN COSTS Min OMP+R | VAR. OMP&R ADJUST. FOR ADDED POWER SALES * | Total |
|---|---|---|---|---|---|
| Small Hydro * | | — | — | — | — |
| Hyatt. Thermo | 2200 2300 2400 | -24,393 | 203 | — | -24,190 |
| San Luis | 5600 | -2,823 | 0 | — | -2,823 |
| Alamo | 7210 | 0 | 0 | — | 0 |
| Devil Cyn. | 8010 | -12,220 | 20 | — | -12,200 |
| Warne | 8370 | -5,299 | 581 | — | -4,718 |
| Castaic | 8390 | -8,653 | 502 | — | -8,151 |
| Recovery Total | | -53,388 | 1,306 | — | -52,082 |
| Hyatt-Thermo | 2200 2300 2400 | 0 | — | — | — |
| Cordelia | 4210 | 15 | 8 | 10 | 33 |
| Delta | 5400 | 11,269 | 1,805 | 7,749 | 20,823 |
| So. Bay Del Valle | 4600 5000 | 2,291 | 422 | 1,575 | 4,288 |
| San Luis | 5600 | 2,995 | 807 | 2,060 | 5,862 |
| Dos Amigos | 5300 | 5,112 | 896 | 3,515 | 9,523 |
| Los Perillas Badger Hill | 8510 | 714 | 136 | 491 | 1,341 |
| Buena Vista | 6810 | 4,801 | 1,009 | 3,301 | 9,111 |
| Wheeler R. | 6910 | 4,888 | 1,020 | 3,361 | 9,269 |
| Wind Gap | 7010 | 10,435 | 2,160 | 7,175 | 19,770 |
| AD Edmon. | 7150 | 35,619 | 11,729 | 24,492 | 71,840 |
| Pear | 7640 | 5,645 | 1,241 | 3,882 | 10,768 |
| Oso | 8310 | 1,919 | 1,046 | 1,320 | 4,285 |
| Pumping Total | | 85,703 | 22,279 | 58,931 | 166,913 |

~~* Small Hydro generation values from keypunch sheet in~~

* See backup data for Table 27.

C-111283

C-111283

132-83 PROJECT OPERATING COSTS (TABLE 27)

1983 COSTS BY PLANT ($1,000)

D. Knock 9/26/83

| Plant | Reach Code | VARMIN COSTS Var. OMP&R | VARMIN COSTS Min OMP&R | VAR. OMP&R ADJUST. FOR ADDED POWER SALES * | Total |
|---|---|---|---|---|---|
| Small Hydro* | | — | | | |
| Hyatt-Thermo | 2200 2300 2400 | -15694* | 196 ✓ | — | -15498 |
| San Luis | 5600 | -70 | 0 | — | -70 |
| Alamo | 7210 | 0 ✓ | 0 | — | 0 |
| Devil Cyn. | 8010 | -12,867 ✓ | 30 ✓ | — | -12837 |
| Warne | 8370 | -1,166 ✓ | 384 ✓ | — | -782 |
| Castaic | 8390 | -1,515 ✓ | 331 ✓ | — | -1184 |
| Recovery Total | | -31,312 | 941 | — | -30371 |
| Hyatt-Thermo | 2200 2300 2400 | — | — | — | — |
| Cordelia | 4210 | 15 ✓ | 11 ✓ | 9 | 35 |
| Delta | 5400 | 9,085 ✓ | 1,698 ✓ | 5696 | 16479 |
| So. Bay Del Valle | 4600 5000 | 1,717 ✓ | 361 ✓ | 1076 | 3154 |
| San Luis | 5600 | — | — | — | — |
| Dos Amigos | 5300 | 3,829 ✓ | 772 ✓ | 2401 | 7002 |
| Los Perillas Badger Hill | 8510 | 559 ✓ | 122 ✓ | 350 | 1031 |
| Buena Vista | 6810 | 3,244 ✓ | 778 ✓ | 2034 | 6056 |
| Wheeler R. | 6910 | 3,199 ✓ | 765 ✓ | 2006 | 5970 |
| Wind Gap | 7010 | 6,669 ✓ | 1,591 ✓ | 4181 | 12441 |
| AD Edmon. | 7150 | 22,708 ✓ | 7,907 ✓ | 14238 | 44853 |
| Pear | 7640 | 5,500 ✓ | 1,211 ✓ | 3448 | 10159 |
| Oso | 8310 | 367 ✓ | 535 ✓ | 230 | 1132 |
| Pumping Total | | 56,892 | 15,751 | 35,669 ✓ | 108,312 ✓ |

* See backup for Table 27.

~~* Small Hydro generation values from keypunch sheet in backup data for Table 27.~~

✓ From M. Wofford 9-26-83
10511 MWH x $ 18.69 / MWH = $ 196,472
Station Service

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