

Historic Investment Rates of Return

Table: Historic Annual Investment Rates of Return

| Fiscal Year | CalPERS Annual Return | CalPERS Actuarial Assumption | CalSTRS Annual Return | CalSTRS Actuarial Assumption |
|-------------|-----------------------|------------------------------|-----------------------|------------------------------|
| 1992-93 | 14.5% | 8.75% | 13.8% | 8.50% |
| 1993-94 | 2.0% | 8.75% | 0.6% | 8.50% |
| 1994-95 | 16.3% | 8.50% | 16.4% | 8.00% |
| 1995-96 | 15.3% | 8.50% | 13.2% | 8.00% |
| 1996-97 | 20.1% | 8.50% | 17.4% | 8.00% |
| 1997-98 | 19.5% | 8.25% | 17.1% | 8.00% |
| 1998-99 | 12.5% | 8.25% | 13.4% | 8.00% |
| 1999-00 | 10.5% | 8.25% | 12.7% | 8.00% |
| 2000-01 | -7.2% | 8.25% | -9.1% | 8.00% |
| 2001-02 | -6.1% | 8.25% | -6.0% | 8.00% |
| 2002-03 | 3.7% | 8.25% | 3.4% | 8.00% |
| 2003-04 | 16.6% | 7.75% | 17.4% | 8.00% |
| 2004-05 | 12.3% | 7.75% | 11.1% | 8.00% |
| 2005-06 | 11.8% | 7.75% | 13.2% | 8.00% |
| 2006-07 | 19.1% | 7.75% | 21.0% | 8.00% |
| 2007-08 | -5.1% | 7.75% | -3.7% | 8.00% |
| 2008-09 | -24.0% | 7.75% | -25.0% | 8.00% |
| 2009-10 | 13.3% | 7.75% | 12.2% | 8.00% |
| 2010-11 | 21.7% | 7.75% | 23.1% | 7.75% |
| 2011-12 | 0.1% | 7.50% | 1.8% | 7.50% |
| 2012-13 | 13.2% | 7.50% | 13.8% | 7.50% |
| 2013-14 | 18.4% | 7.50% | 18.7% | 7.50% |
| 2014-15 | 2.4% | 7.50% | 4.8% | 7.50% |
| 2015-16 | 0.6% | 7.50% | 1.6% | 7.50% |

| | | |
|---------|------|-------|
| 2016-17 | 11.2 | 7.375 |
| 2017-18 | 8.6 | 7.25% |
| 2018-19 | ? | 7.00% |

11 YEAR AVERAGE

5.49%

Amortization Schedule and Alternatives

| Date | Current Amortization Schedule | | Alternate Schedules | | | |
|-------------------|-------------------------------|-----------|----------------------|-----------|----------------------|-----------|
| | Balance | Payment | 20 Year Amortization | | 15 Year Amortization | |
| | Balance | Payment | Balance | Payment | Balance | Payment |
| 6/30/2019 | 3,902,884 | 250,446 | 3,902,884 | 291,698 | 3,902,884 | 354,893 |
| 6/30/2020 | 3,926,478 | 280,906 | 3,883,756 | 300,084 | 3,818,311 | 365,096 |
| 6/30/2021 | 3,920,237 | 313,308 | 3,854,557 | 308,712 | 3,717,039 | 375,593 |
| 6/30/2022 | 3,879,987 | 337,848 | 3,814,306 | 317,587 | 3,597,555 | 386,391 |
| 6/30/2023 | 3,811,406 | 348,397 | 3,761,945 | 326,718 | 3,458,225 | 397,500 |
| 6/30/2024 | 3,726,928 | 358,413 | 3,696,332 | 336,111 | 3,297,290 | 408,928 |
| 6/30/2025 | 3,625,952 | 368,717 | 3,616,234 | 345,774 | 3,112,851 | 420,684 |
| 6/30/2026 | 3,506,984 | 379,318 | 3,520,322 | 355,715 | 2,902,866 | 432,779 |
| 6/30/2027 | 3,368,413 | 390,223 | 3,407,161 | 365,942 | 2,665,131 | 445,221 |
| 6/30/2028 | 3,208,501 | 401,442 | 3,275,205 | 376,463 | 2,397,275 | 458,021 |
| 6/30/2029 | 3,025,377 | 412,984 | 3,122,787 | 387,286 | 2,096,743 | 471,190 |
| 6/30/2030 | 2,817,025 | 424,857 | 2,948,110 | 398,420 | 1,760,785 | 484,736 |
| 6/30/2031 | 2,581,270 | 437,072 | 2,749,237 | 409,875 | 1,386,442 | 498,672 |
| 6/30/2032 | 2,315,774 | 429,855 | 2,524,084 | 421,659 | 970,526 | 513,009 |
| 6/30/2033 | 2,038,502 | 421,863 | 2,270,404 | 433,782 | 509,608 | 527,758 |
| 6/30/2034 | 1,749,406 | 405,872 | 1,985,777 | 446,253 | | |
| 6/30/2035 | 1,455,910 | 379,295 | 1,667,599 | 459,083 | | |
| 6/30/2036 | 1,168,660 | 350,855 | 1,313,067 | 472,281 | | |
| 6/30/2037 | 890,037 | 180,957 | 919,162 | 485,859 | | |
| 6/30/2038 | 767,163 | 167,968 | 482,638 | 499,828 | | |
| 6/30/2039 | 648,832 | 162,362 | | | | |
| 6/30/2040 | 527,728 | 167,029 | | | | |
| 6/30/2041 | 393,010 | 134,311 | | | | |
| 6/30/2042 | 282,409 | 126,557 | | | | |
| 6/30/2043 | 171,819 | 101,031 | | | | |
| 6/30/2044 | 79,647 | 56,010 | | | | |
| 6/30/2045 | 27,417 | 19,128 | | | | |
| 6/30/2046 | 9,595 | 9,937 | | | | |
| 6/30/2047 | | | | | | |
| 6/30/2048 | | | | | | |
| Totals | | 7,816,960 | | 7,739,128 | | 6,540,471 |
| Interest Paid | | 3,914,076 | | 3,836,244 | | 2,637,587 |
| Estimated Savings | | | | 77,833 | | 1,276,490 |

* This schedule does not reflect the impact of adopted discount rate changes that will become effective beyond June 30, 2017. For Projected Employer Contributions, please see page 5.