

#### MassMutual@WORK

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#### **Washoe County Deferred Compensation Plan**

Current Period: January 1, 2018 – March 31, 2018 Prior Period: October 1, 2017 – December 31, 2017

#### **Executive Summary**

| P | lan | S | tai | iisi | tics |
|---|-----|---|-----|------|------|
|   |     |   |     |      |      |

|                                 | 12/31/2017    | 3/31/2018     | Plan Trend |
|---------------------------------|---------------|---------------|------------|
| Total Plan Assets               | \$159,983,259 | \$159,698,386 | ▼ 0%       |
| Total Outstanding Loan Balances | \$2,461,556   | \$2,490,287   | ▲ 1%       |
| Participant Contributions       |               |               |            |
| Participant                     | \$2,279,195   | \$3,008,282   | ▲ 32%      |
| Rollover                        | \$305,971     | \$590,311     | ▲ 93%      |
| Transferred Assets              | \$0           | \$4,118       | ▲ 100%     |
| Distributions                   |               |               |            |
| Withdrawals                     | (\$1,251,057) | (\$1,036,039) | ▼ 17%      |
| Terminations                    | (\$1,167,630) | (\$3,125,422) | ▲ 168%     |
| Loans                           | (\$288,716)   | (\$473,840)   | ▲ 64%      |
| Expenses*                       | (\$3,567)     | (\$38,595)    | ▲ 982%     |
| Investment Income               | \$5,152,676   | \$687,838     | ▼ 87%      |

#### **Notes**

61971-2 Washoe County Deferred Compensation Plan For Advisor and Plan Sponsor use only. Not for use with Plan Participants.

<sup>\*</sup>The expenses shown reflect expenses deducted from plan assets. Expenses billed directly to the plan sponsor or expenses related to the expense ratio of investments under the plan are not reflected. The Contribution data displays the combined dollar value of Contributions & Loan Repayments, if applicable.

## **Executive Summary**

#### **Participant Activity**

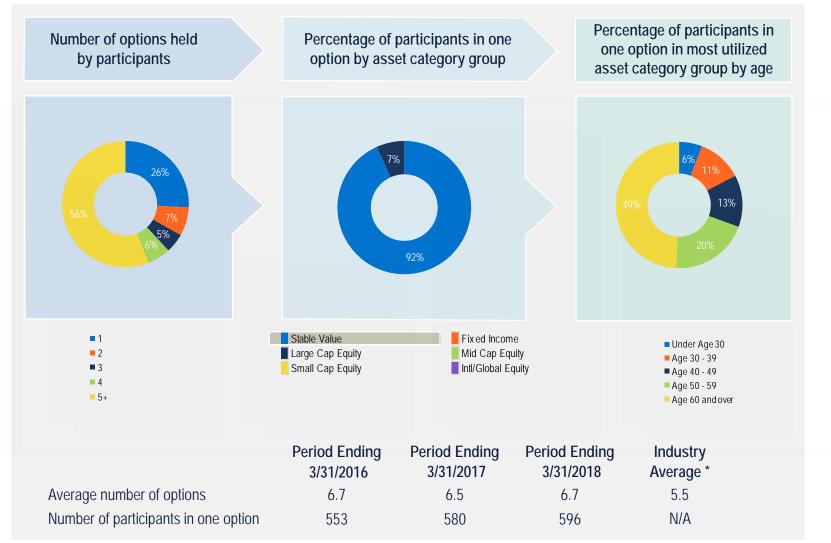
|                                     | 12/31/2017 | 3/31/2018 | Plan Trend    |
|-------------------------------------|------------|-----------|---------------|
| Total Participants                  | 2,265      | 2,307     | ▲ 2%          |
| Average Account Balance             | \$70,633   | \$69,223  | ▼ 2%          |
| Average Number of Investments       | 6.5        | 6.7       | ▲ 3%          |
| Number of Outstanding Loans         | 274        | 269       | ▼ 2%          |
| Percent of Participants With a Loan | 12%        | 12%       | <b>◄ ►</b> 0% |
| Average Loan Balance                | \$8,984    | \$9,258   | ▲ 3%          |
| Total Calls to 800#                 | 14         | 27        | ▲ 93%         |
| Total Visits to Website             | 4,713      | 6,105     | ▲ 30%         |

**Notes** Terminations = termination and retirement

Withdrawals = in-service withdrawal, death benefits, minimum distribution, installment payment and loan default

### **Participant Diversification**

January 01, 2018 through March 31, 2018



<sup>\*</sup>Source: Hewitt Associates 2016 Universe Benchmarks Report

<sup>61971-2</sup> Washoe County Deferred Compensation Plan For Advisor and Plan Sponsor use only. Not for use with Plan Participants.

## 457 Plan Balances by Investment

| Asset Allocation                    |   |             |               |                |             |               |            |                      |                          |             |
|-------------------------------------|---|-------------|---------------|----------------|-------------|---------------|------------|----------------------|--------------------------|-------------|
|                                     | Plan Activity January 01, 2018 through March 31, 2018 |             |               |                |             |               |            |                      |                          |             |
| Investment Options                  | Balances as of 12/31/2017                             | Percentage* | Contributions | Other Activity | Transfers   | Distributions | Expenses** | Investment<br>Income | Balances as of 3/31/2018 | Percentage* |
| SF GIA 61971                        | \$70,439,086  | 44.03%      | \$1,030,238   | \$166,159      | \$1,497,018 | (\$1,973,803) | (\$16,359) | \$603,893            | \$71,746,231             | 44.93%      |
| Hartford Total Return Bond HLS Fund | \$3,733,330   | 2.33%       | \$78,975      | \$6,305        | (\$122,930) | (\$127,777)   | (\$851)    | (\$50,738)           | \$3,516,314              | 2.20%       |
| PIMCO High Yield Fund               | \$2,345,621   | 1.47%       | \$47,098      | \$4,229        | (\$62,654)  | (\$149,304)   | (\$536)    | (\$30,506)           | \$2,153,947              | 1.35%       |
| PIMCO Foreign Bond Fund             | \$863,182   | 0.54%       | \$33,905      | \$2,268        | \$3,858     | (\$36,024)    | (\$244)    | \$11,487             | \$878,431                | 0.55%       |
| American Funds Balanced Fund        | \$5,555,750   | 3.47%       | \$218,861     | \$21,054       | (\$2,621)   | (\$99,425)    | (\$1,435)  | (\$67,022)           | \$5,625,161              | 3.52%       |
| American Century Equity Income Fund | \$7,907,182   | 4.94%       | \$175,312     | \$28,345       | (\$485,917) | (\$210,096)   | (\$1,791)  | (\$234,236)          | \$7,178,799              | 4.50%       |
| Wells Fargo Disciplined US Core     | \$13,283,116  | 8.30%       | \$163,351     | \$42,651       | (\$344,376) | (\$441,404)   | (\$3,166)  | (\$216,540)          | \$12,483,633             | 7.82%       |
| Vanguard Institutional Index Fund   | \$11,443,764  | 7.15%       | \$358,308     | \$42,233       | (\$1,030)   | (\$438,566)   | (\$2,906)  | (\$85,880)           | \$11,315,923             | 7.09%       |
| American Funds Grth Fund of America | \$13,530,089  | 8.46%       | \$268,427     | \$41,860       | (\$48,152)  | (\$282,903)   | (\$3,413)  | \$403,165            | \$13,909,074             | 8.71%       |
| Hotchkis and Wiley Mid Cap Val Fd   | \$3,365,377   | 2.10%       | \$62,389      | \$15,228       | (\$190,743) | (\$100,057)   | (\$770)    | (\$63,528)           | \$3,087,896              | 1.93%       |
| Vanguard Mid Cap Index Fund         | \$2,476,412   | 1.55%       | \$139,725     | \$6,740        | (\$21,052)  | (\$114,877)   | (\$613)    | (\$1,285)            | \$2,485,051              | 1.56%       |
| Hartford MidCap HLS Fund            | \$8,704,355   | 5.44%       | \$191,663     | \$24,133       | \$16,345    | (\$219,145)   | (\$2,241)  | \$298,361            | \$9,013,471              | 5.64%       |
| AMG Managers Skyline Special Eq Fd  | \$3,005,593   | 1.88%       | \$54,914      | \$13,727       | (\$132,897) | (\$72,983)    | (\$809)    | (\$39,788)           | \$2,827,756              | 1.77%       |
| Vanguard Small Cap Index Fund       | \$2,604,097   | 1.63%       | \$133,811     | \$5,448        | \$9,481     | (\$100,159)   | (\$653)    | (\$3,710)            | \$2,648,315              | 1.66%       |
| Wells Fargo Small Company Growth Fd | \$2,516,049   | 1.57%       | \$56,336      | \$8,585        | \$37,899    | (\$42,526)    | (\$667)    | \$120,413            | \$2,696,090              | 1.69%       |
| Amer Funds EuroPacific Growth Fund  | \$5,003,950   | 3.13%       | \$120,522     | \$29,660       | (\$53,420)  | (\$169,404)   | (\$1,302)  | \$52,411             | \$4,982,417              | 3.12%       |
| DFA Intl Small Cap Value Prtfl Fd   | \$1,718,930   | 1.07%       | \$47,857      | \$4,011        | (\$46,940)  | (\$29,327)    | (\$431)    | (\$38,896)           | \$1,655,204              | 1.04%       |
| Lazard Emerging Markets Fund        | \$1,487,376   | 0.93%       | \$52,711      | \$4,145        | (\$51,867)  | (\$27,522)    | (\$407)    | \$30,237             | \$1,494,673              | 0.94%       |
| Total                               | \$159,983,261   | 100%        | \$3,234,402   | \$466,781      |             | (\$4,635,301) | (\$38,595) | \$687,838            | \$159,698,385            | 100%        |

<sup>\*</sup>Due to rounding, percentages may not total 100 percent.

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<sup>\*\*</sup>The expenses shown reflect expenses deducted from plan assets. Does not include expenses billed directly to the plan sponsor or expenses related to the expense ratio of investments under the plan.

<sup>61971-2</sup> Washoe County Deferred Compensation Plan

## 401(a) Plan Balances by Investment

| Asset Allocation                    |                              |             |               |   |             |               |            |                      |                          |           |
|-------------------------------------|------------------------------|-------------|---------------|---|-------------|---------------|------------|----------------------|--------------------------|-----------|
|                                     |                              |             |               | Plan Activity January 01, 2018 through March 31, 2018 |             |               |            |                      |                          |           |
| Investment Options                  | Balances as of<br>12/31/2017 | Percentage* | Contributions | Other Activity  | Transfers   | Distributions | Expenses** | Investment<br>Income | Balances as of 3/31/2018 | Percentag |
| Guaranteed Interest OF 41564        | \$0                          | 0.00%       | (\$50)        | \$0   | \$52        | \$0           | \$0        | (\$2)                | \$0                      | 0.00%     |
| SF GIA 61971                        | \$3,509,838                  | 31.25%      | \$37,247      | \$9,975   | \$329,207   | (\$24,187)    | (\$804)    | \$31,350             | \$3,892,626              | 34.44%    |
| Hartford Total Return Bond HLS Fund | \$570,767                    | 5.08%       | \$5,128       | \$439   | (\$119,061) | (\$17,058)    | (\$110)    | (\$8,490)            | \$431,615                | 3.82%     |
| PIMCO High Yield Fund               | \$186,124                    | 1.66%       | \$2,409       | \$428   | (\$23,125)  | (\$3,869)     | (\$39)     | (\$2,532)            | \$159,396                | 1.41%     |
| PIMCO Foreign Bond Fund             | \$122,592                    | 1.09%       | \$1,261       | \$133   | (\$15,408)  | (\$7,766)     | (\$25)     | \$1,412              | \$102,199                | 0.90%     |
| American Funds Balanced Fund        | \$479,272                    | 4.27%       | \$8,610       | \$710   | \$10,780    | (\$1,382)     | (\$109)    | (\$6,177)            | \$491,704                | 4.35%     |
| American Century Equity Income Fund | \$809,339                    | 7.21%       | \$8,072       | \$977   | (\$71,242)  | (\$3,182)     | (\$167)    | (\$23,576)           | \$720,220                | 6.37%     |
| Wells Fargo Disciplined US Core     | \$896,273                    | 7.98%       | \$7,621       | \$1,475   | (\$25,422)  | (\$11,271)    | (\$238)    | (\$14,481)           | \$853,957                | 7.55%     |
| Vanguard Institutional Index Fund   | \$1,039,155                  | 9.25%       | \$22,308      | \$2,472   | \$45,661    | (\$6,887)     | (\$239)    | (\$10,705)           | \$1,091,764              | 9.66%     |
| American Funds Grth Fund of America | \$711,403                    | 6.33%       | \$9,116       | \$1,895   | \$26,094    | (\$2,531)     | (\$168)    | \$19,705             | \$765,514                | 6.77%     |
| Hotchkis and Wiley Mid Cap Val Fd   | \$319,945                    | 2.85%       | \$3,712       | \$1,213   | (\$48,669)  | (\$4,380)     | (\$64)     | (\$5,420)            | \$266,336                | 2.36%     |
| Vanguard Mid Cap Index Fund         | \$222,214                    | 1.98%       | \$8,949       | \$634   | (\$6,989)   | (\$2,593)     | (\$49)     | (\$451)              | \$221,714                | 1.96%     |
| Hartford MidCap HLS Fund            | \$721,120                    | 6.42%       | \$7,435       | \$774   | \$4,921     | (\$6,991)     | (\$200)    | \$24,561             | \$751,621                | 6.65%     |
| AMG Managers Skyline Special Eq Fd  | \$336,077                    | 2.99%       | \$2,784       | \$485   | (\$48,439)  | (\$643)       | (\$69)     | (\$3,924)            | \$286,272                | 2.53%     |
| Vanguard Small Cap Index Fund       | \$225,062                    | 2.00%       | \$6,583       | \$710   | (\$12,100)  | (\$2,570)     | (\$49)     | (\$812)              | \$216,826                | 1.92%     |
| Wells Fargo Small Company Growth Fd | \$292,718                    | 2.61%       | \$3,221       | \$566   | (\$20,259)  | (\$3,954)     | (\$84)     | \$12,998             | \$285,206                | 2.52%     |
| Amer Funds EuroPacific Growth Fund  | \$436,034                    | 3.88%       | \$4,077       | \$886   | (\$8,066)   | (\$7,794)     | (\$124)    | \$3,981              | \$428,993                | 3.80%     |
| DFA Intl Small Cap Value Prtfl Fd   | \$185,076                    | 1.65%       | \$2,637       | \$238   | (\$8,077)   | (\$1,945)     | (\$40)     | (\$4,257)            | \$173,632                | 1.54%     |
| Lazard Emerging Markets Fund        | \$169,227                    | 1.51%       | \$2,676       | \$251   | (\$9,858)   | (\$1,338)     | (\$38)     | \$3,374              | \$164,294                | 1.45%     |
| Total                               | \$11,232,235                 | 100%        | \$143,795     | \$24,259  |             | (\$110,341)   | (\$2,613)  | \$16,555             | \$11,303,890             | 100%      |

<sup>\*</sup>Due to rounding, percentages may not total 100 percent.

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<sup>\*\*</sup>The expenses shown reflect expenses deducted from plan assets. Does not include expenses billed directly to the plan sponsor or expenses related to the expense ratio of investments under the plan.

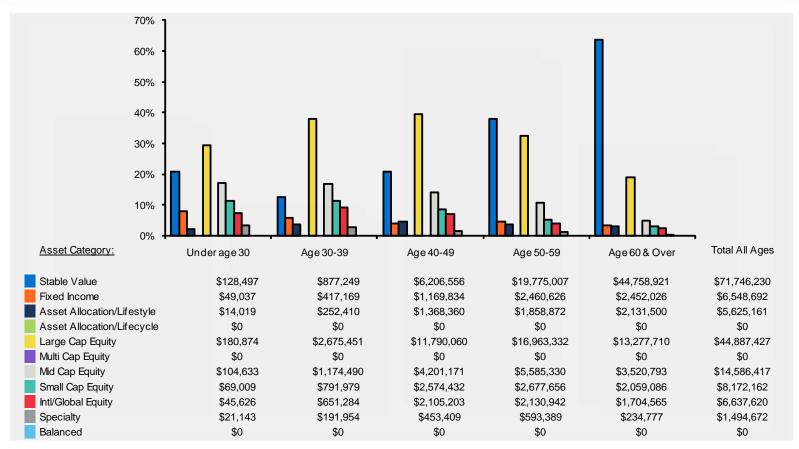
<sup>61971-1</sup> Washoe County 401(a) Plan

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## **Balances by Age**

as of March 31, 2018

| Age                     | Under age 30 | Age 30-39   | Age 40-49    | Age 50-59    | Age 60 and Over | Total         |
|-------------------------|--------------|-------------|--------------|--------------|-----------------|---------------|
| Number of Participants  | 107          | 387         | 600          | 597          | 616             | 2,307         |
| Group Balance           | \$612,839    | \$7,031,987 | \$29,869,026 | \$52,045,155 | \$70,139,379    | \$159,698,386 |
| Average Account Balance | \$5,727      | \$18,171    | \$49,782     | \$87,178     | \$113,863       | \$69,223      |



#### **Total Investment Balance**

as of March 31, 2018

|                                     |              |             | PARTICIPANTS |             |          |   |  |                                  |
|-------------------------------------|--------------|-------------|--------------|-------------|----------|---|--|----------------------------------|
| Investment Options                  | Active       | Beneficiary | Retired      | Terminated  | QDRO     | Participants in<br>Option as of<br>12/31/2017 | Participants in<br>Option as of<br>3/31/2018 | Investment Selection Percentage* |
| SF GIA 61971                        | \$34,789,614 | \$402,121   | \$33,736,768 | \$2,728,129 | \$89,600 | 1,638   | 1,683  | 31.6%                            |
| Hartford Total Return Bond HLS Fund | \$2,188,799  | \$76        | \$1,097,054  | \$227,638   | \$2,748  | 650   | 676  | 2.4%                             |
| PIMCO High Yield Fund               | \$1,439,238  | \$0         | \$570,527    | \$135,991   | \$8,192  | 567   | 572  | 1.7%                             |
| PIMCO Foreign Bond Fund             | \$643,823    | \$0         | \$147,540    | \$87,068    | \$0      | 397   | 419  | 1.1%                             |
| American Funds Balanced Fund        | \$4,086,607  | \$55,195    | \$1,144,092  | \$327,852   | \$11,415 | 509   | 511  | 5.2%                             |
| American Century Equity Income Fund | \$5,435,079  | \$40,191    | \$1,424,416  | \$261,592   | \$17,521 | 991   | 980  | 4.9%                             |
| Wells Fargo Disciplined US Core     | \$9,044,201  | \$214,511   | \$2,438,741  | \$765,057   | \$21,123 | 1,036   | 1,068  | 7.2%                             |
| Vanguard Institutional Index Fund   | \$8,850,283  | \$63,860    | \$1,915,747  | \$480,490   | \$5,542  | 1,074   | 1,118  | 10.6%                            |
| American Funds Grth Fund of America | \$10,492,418 | \$20,017    | \$2,613,460  | \$760,605   | \$22,574 | 1,210   | 1,250  | 9.3%                             |
| Hotchkis and Wiley Mid Cap Val Fd   | \$2,075,287  | \$0         | \$826,538    | \$179,467   | \$6,604  | 711   | 744  | 2.2%                             |
| Vanguard Mid Cap Index Fund         | \$2,063,858  | \$0         | \$299,747    | \$120,013   | \$1,434  | 730   | 777  | 3.2%                             |
| Hartford MidCap HLS Fund            | \$6,711,378  | \$0         | \$1,751,954  | \$536,601   | \$13,538 | 1,211   | 1,264  | 5.8%                             |
| AMG Managers Skyline Special Eq Fd  | \$2,085,929  | \$0         | \$573,251    | \$163,463   | \$5,113  | 723   | 756  | 2.1%                             |
| Vanguard Small Cap Index Fund       | \$2,100,983  | \$0         | \$433,648    | \$109,657   | \$4,027  | 742   | 782  | 2.7%                             |
| Wells Fargo Small Company Growth Fd | \$2,142,742  | \$0         | \$346,263    | \$203,240   | \$3,845  | 734   | 758  | 2.1%                             |
| Amer Funds EuroPacific Growth Fund  | \$3,772,085  | \$18,240    | \$909,327    | \$275,539   | \$7,225  | 867   | 889  | 4.6%                             |
| DFA Intl Small Cap Value Prtfl Fd   | \$1,357,770  | \$0         | \$183,417    | \$106,056   | \$7,961  | 540   | 556  | 1.7%                             |

Total Participants 2307: 1714 Active, 6 Beneficiary, 435 Retired, 145 Terminated, 7 QDRO

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<sup>\*</sup>The investment selection percentages reflect participants with an active status. Due to rounding the percentages may not total 100%. Contracts with multiple plans may result in participants maintaining balances in more than one plan.

<sup>61971-2</sup> Washoe County Deferred Compensation Plan

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#### **Total Investment Balance**

as of March 31, 2018

| Participant Demographics     |               |             |              |             |           |   |  |                                     |
|------------------------------|---------------|-------------|--------------|-------------|-----------|---|--|-------------------------------------|
|                              |               |             | PARTICIPANTS |             |           |   |  |                                     |
| Investment Options           | Active        | Beneficiary | Retired      | Terminated  | QDRO      | Participants in<br>Option as of<br>12/31/2017 | Participants in<br>Option as of<br>3/31/2018 | Investment Selection<br>Percentage* |
| Lazard Emerging Markets Fund | \$1,173,085   | \$0         | \$213,680    | \$100,231   | \$7,677   | 547   | 583  | 1.6%                                |
| Total                        | \$100,453,177 | \$814,211   | \$50,626,170 | \$7,568,688 | \$236,140 |   |  | 100%                                |

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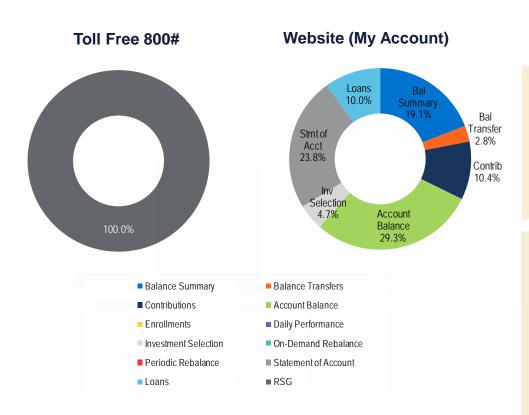
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<sup>61971-2</sup> Washoe County Deferred Compensation Plan

### **Participant Interactions**

January 01, 2018 through March 31, 2018





#### Highlights - Website

| My Account | 1230 |
|------------|------|
| Research   | 58   |

#### Highlights - Retirement Services Call Center

| RSG-Retirement Options | 98 |
|------------------------|----|
| Loans                  | 70 |
| Withdrawals            | 66 |
| Transaction Performed  | 43 |
| Participant Indicative | 40 |
|                        |    |

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## **Loan Summary**

| Loan Data  |                         |                         |                                  |                   |
|--|-------------------------|-------------------------|----------------------------------|-------------------|
|  | Your Plan<br>12/31/2017 | Your Plan<br>03/31/2018 | MassMutual Average<br>12/31/2017 | Industry Averages |
| Number of loans allowed                            | 1                       | 1                       | 2.0                              | 1.1*              |
| Average number of loans per participant with loans | ans 1.0                 | 1.0                     | 1.2                              | Not available     |
| Percentage of participants with loans              | 12.1%                   | 11.7%                   | 11.0%                            | 14.6%*            |
| Average loan balance                               | \$8,984                 | \$9,258                 | \$7,719                          | \$6,216*          |
| Percentage of plan assets loaned                   | 1.5%                    | 1.6%                    | 1.4%                             | 0.7%*             |

|  | Your Plan<br>12/31/2017 | Your Plan<br>03/31/2018 |
|--|-------------------------|-------------------------|
| Total number of participants with loans            | 274                     | 270                     |
| Total number of outstanding loans                  | 274                     | 269                     |
| Average account balance of participants with loans | \$58,294                | \$56,265                |
| Total value of outstanding loans                   | \$2,461,556             | \$2,490,287             |

**Current Loan Interest Rate = 6.75%** 

<sup>\*</sup>Source: PSCA's 58th Annual Survey of PS and 401(k) Plans

#### **Disclosures**

Past performance in no guarantee of future results. The information contained in this document represents the views of the MassMutual RetireSMART™ Funds portfolio management team. This material is provided for informational purposes only and is not intended to be investment advice or a recommendation to take any particular investment action. The views contained herein are as of January 26, 2018 and may have changed since that time.

Risk Disclosures for Certain Asset Categories - Please note that your plan may not offer all of the investment types discussed below.

- Risks of investing in bond and debt securities investments include the risk that a bond issuer will default by failing to repay principal and interest in a timely manner (credit risk) and/or the risk that the value of these securities will decline when interest rates increase (interest rate risk).
- Risks of investing in inflation-protected bond investments include credit risk and interest rate risk. Neither the bond investment nor its yield is guaranteed by the U.S. government.
- High-yield bond investments are generally subject to greater market fluctuations and risk of loss of income and principal than lower-yielding debt securities investments.
- Investments that track a benchmark index are professionally managed. However, the benchmark index itself is unmanaged and does not incur fees or expenses and cannot be purchased directly for investment.
- Investments in value stocks may remain undervalued for extended periods of time, and the market may not recognize the intrinsic value of these securities.
- Investments in growth stocks may experience price volatility due to their sensitivity to market fluctuations and dependence on future earnings expectations.
- Investments in companies with small or mid market capitalization ("small caps" or "mid caps") may be subject to special risks given their characteristic narrow markets, limited financial resources, and less liquid stocks, all of which may cause price volatility.
- International/global investing can involve special risks, such as political changes and currency fluctuations. These risks are heightened in emerging market equities. Other trading restrictions may apply. Please see the investment's prospectus for more details.
- A significant percentage of the underlying investments in aggressive asset allocation portfolio investments have a higher than average risk exposure. Investors should consider their risk tolerance carefully before choosing such a strategy.
- An investment with multiple underlying investments may be subject to the expenses of those underlying investments in addition to those of the investment itself.
- Investments may reside in the specialty category due to 1) allowable investment flexibility that precludes classification in standard asset categories and/or 2) investment concentration in a limited group of securities or industry sectors. Investments in this category may be more volatile than less-flexible and/or less-concentrated investments and may be appropriate as only a minor component in an investor's overall portfolio.
- Participants with a large ownership interest in a company or employer stock investment may have the potential to manipulate the value of units of this investment option through their trading practices. As a result, special transfer restrictions may apply. This type of investment option presents a higher degree of risk than diversified investment options under the plan because it invests in the securities of a single company.
- Investments that invest more of their assets in a single issuer or industry sector (such as company stock or sector investments) involve additional risks, including unit price fluctuations, because of the increased concentration of investments.
- A participant will be prohibited from transferring into most mutual funds and similar investments if they have transferred into and out of the same investment within the previous 60 days. Certain stable value, guaranteed interest, fixed income and other investments are not subject to this rule. This rule does not prohibit participants from transferring out of any investment at any time.

Please consider an investment option's objectives, risks, fees and expenses carefully before investing. This and other information can be found in the applicable prospectuses or summary prospectuses, if any, or investment profiles (fact sheets) for the investment options listed, which are available from your plan sponsor, on the plan participant website at <a href="https://www.retiresmart.com">www.retiresmart.com</a> (login required), or by contacting our Participant Information Center at 1-800-743-5274 between 8:00 a.m. and 9:00 p.m. ET, Monday through Friday. Please read them carefully before investing.

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#### **Disclosures**

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You could lose money by investing in the fund. Although the fund seeks to preserve the value of your investment at \$1.00 per share, it cannot guarantee it will do so. The fund may impose a fee upon the sale of your shares or may temporarily suspend your ability to sell shares if the fund's liquidity falls below required minimums because of market conditions or other factors. An investment in the fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The fund's sponsor has no legal obligation to provide financial support to the fund, and you should not expect that the sponsor will provide financial support to the fund at any time."

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You could lose money by investing in the fund. Because the share price of the fund will fluctuate, when you sell your shares they may be worth more or less than what you originally paid for them. The fund may impose a fee upon the sale of your shares or may temporarily suspend your ability to sell shares if the fund's liquidity falls below required minimums because of market conditions or other factors. An investment in the fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The fund's sponsor has no legal obligation to provide financial support to the fund, and you should not expect that the sponsor will provide financial support to the fund at any time.

Generally target retirement date (lifecycle) investment options are designed to be held beyond the presumed retirement date to offer a continuing investment option for the investor in retirement. The year in the investment option name refers to the approximate year an investor in the option would plan to retire and likely would stop making new contributions to the investment option. However, investors may choose a date other than their presumed retirement date to be more conservative or aggressive depending on their own risk tolerance.

Target retirement date (lifecycle) investment options are designed for participants who plan to withdraw the value of their accounts gradually after retirement. Each of these options follows its own asset allocation path ("glide path") to progressively reduce its equity exposure and become more conservative over time. Options may not reach their most conservative allocation until after their target date. Others may reach their most conservative allocation in their target date year. Investors should consider their own personal risk tolerance, circumstances and financial situation.

These options should not be selected solely on a single factor such as age or retirement date. Please consult the prospectus (if applicable) pertaining to the options to determine if their glide path is consistent with your long-term financial plan. Target retirement date investment options' stated asset allocation may be subject to change. Investments in these options are not guaranteed and you may experience losses, including losses near, at, or after the target date. Additionally, there is no guarantee that the options will provide adequate income at and through retirement.

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The net expense ratio includes any investment expense waiver arrangements documented in the investment's prospectus and may be lower than the gross expense ratio due to the indicated expense waivers, which may be subject to expiration. Additional information regarding investment expense waivers specific to each investment is included in this document, if available, including whether the waiver is contractual or voluntary and its date of expiration. All available information about investment expense waivers is current and complete as of the date of this report. If information regarding the waivers is incomplete, it is because our third-party data provider was unable to make the information available. For more information, please see the investment profile or the prospectus that corresponds to the investment, which are both available from MassMutual. Contact your MassMutual professional or call 1-888-309-3539.

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Performance shown is historical and does not guarantee future results. Current performance may be lower or higher than that shown. Performance for other time periods, including since inception performance, is available in the investment profile pertaining to the investment or by calling 1-888-309-3539. Investment return and principal values fluctuate. There are no assurances investment objectives will be achieved. Values at distribution may be more or less than the amount invested.

Average total annual returns show the change in the value of an investment expressed as a percentage on an annual basis and include reinvestment of all dividends and capital gains distributions. Performance is shown net of investment expenses.

Specific details about the performance, and Morningstar Ratings<sup>TM</sup> for each investment option are provided below under the appropriate asset category. Each investment option includes a reference to a benchmark index. Details on the indices and how Morningstar Ratings<sup>TM</sup> are calculated are provided at the end of the attached Peer Analysis report notes.

Investors should consider an investment's objectives, risks, fees and expenses carefully before investing. This and other information can be found in the investment profile or prospectus, available by clicking on the investment name. Read it carefully before investing.

3 Year Risk is the annualized standard deviation of the last 36 monthly returns. Risk measures the volatility of performance. Generally a higher standard deviation (or percentage shown) means greater risk or volatility.

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#### **Washoe County 1st Quarter 2018 Summary Sheet**

| Group Meeting Results          | 1st Quarter 2017 | 2017 YTD Totals | 1st Quarter 2018 | 2018 YTD Totals |
|--------------------------------|------------------|-----------------|------------------|-----------------|
| Meetings                       | 23               | 23              | 18               | 18              |
| Attendees                      | 286              | 286             | 237              | 237             |
| 457 Enrollments                | 42               | 42              | 51               | 51              |
| 401(a) Enrollments             | 2                | 2               | 0                | 0               |
| One on One Counseling Sessions | 187              | 187             | 205              | 205             |

| Rollover Results            | 1st Quarter 2017 | 2017 YTD Totals | 1st Quarter 2018 | 2018 YTD Totals |
|-----------------------------|------------------|-----------------|------------------|-----------------|
| Rollovers In                | 18               | 18              | 18               | 18              |
| Dollars from Rollovers In   | \$788,876.32     | \$788,876.32    | \$569,599.55     | \$569,599.55    |
| Rollovers Out               | 8                | 8               | 24               | 24              |
| Dollars from Rollovers Out  | \$481,498.70     | \$481,498.70    | \$2,409,540.98   | \$2,409,540.98  |
| PERS Purchases              | 20               | 20              | 14               | 14              |
| Dollars from PERS Purchases | \$431,529.81     | \$431,529.81    | \$621,963.97     | \$621,963.97    |

| 401(a) & 457 Loan Results           | 1st Quarter 2017 | 2017 YTD Totals | 1st Quarter 2018 | 2018 YTD Totals |
|-------------------------------------|------------------|-----------------|------------------|-----------------|
| 401(a) Applications Processed       | 1                | 1               | 1                | 1               |
| Dollars from Applications Processed | \$2,000.00       | \$2,000.00      | \$22,000.00      | \$22,000.00     |
| 457 Applications Processed          | 23               | 23              | 27               | 27              |
| Dollars from Applications Processed | \$311,258.29     | \$311,258.29    | \$473,840.00     | \$473,840.00    |

| Hardship Results                   | 1st Quarter 2017 | 2017 YTD Totals | 1st Quarter 2018 | 2018 YTD Totals |
|------------------------------------|------------------|-----------------|------------------|-----------------|
| Hardship Applications Approved     | 1                | 1               | 0                | 0               |
| Dollars from Approved Applications | \$3,842.79       | \$3,842.79      | \$0.00           | \$0.00          |

| 401(a) & 457 Fund & Average Results                  | 1st Quarter 2017 | 1st Quarter 2018 |
|--|------------------|------------------|
| Participants in 457 Plan                             | 2,191            | 2,307            |
| Participants in 401(a) Plan                          | 159              | 160              |
| 457 Assets as of 12-31-2017 Including Loan Assets    | \$147,425,700.42 | \$159,698,386.00 |
| 401(a) Assets as of 12-31-2017 Including Loan Assets | \$10,006,475.79  | \$11,303,889.00  |
| Average 457 Participant Balance                      | \$67,286.95      | \$69,223.00      |
| Average 401(a) Participant Balance                   | \$62,933.81      | \$70,649.00      |

| ROTH Results                     | 1st Quarter 2017 | 1st Quarter 2018 |
|----------------------------------|------------------|------------------|
| Participants with a Roth Balance | 194              | 211              |
| Assets in Roth                   | \$2,222,411.98   | \$2,822,626.78   |