## LECG

Actuarial Study of the Self-Insurance Programs of

## RIVERSIDE COMMUNITY COLLEGE DISTRICT



## Riverside Community College District

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## Riverside Community College District

Section I - Background and Objections

## Background

The Riverside Community College District ("RCCD") is a two-year public college district and is a member of the Alliance of Schools for Cooperative Insurance Programs ("ASCIP"). RCCD retains risk exposures for medical benefits, workers compensation, general liability, automobile liability and property.

RCCD is self-insured for medical claims from its Preferred Provider Organization (PPO) benefit program administered by the Orange County Foundation for Medical Care. Stop-loss insurance is purchased for claims in excess of $\$ 250,000$ (effective July 1, 2010). A history of self-insured medical reimbursements is shown in Appendix A, Exhibit HC-1. RCCD purchases stop-loss insurance from Canada Life Assurance Company. Based on our discussions with RCCD and review of the underlying data, we have no concerns regarding collectability of stop loss at this time.

RCCD is self-insured for workers compensation. Currently, RCCD retains the first \$500,000 per occurrence (effective July 1, 2010). A history of self-insured retentions ("SIR") is shown in Appendix B, Exhibit WC-1. RCCD purchases excess insurance attaching at the SIR. Claims are administered by the firm of York Insurance Services Group ("York").

For liability, RCCD purchases insurance from ASCIP and maintains a $\$ 100,000$ per occurrence deductible; claims are administered by RCCD.

RCCD provides a prescription drug benefit through CareMark; however, the payment history suggests an almost immediate payment of claims. As a result, prescription drug benefits are excluded from the IBNR for self-insured medical benefits. In addition, prescription drug benefits are excluded from the projection of medical claims presented in Table II-5 as well as all other exhibits included in this report.

Although RCCD has property liability exposure, there were no outstanding claims in the information provided, and therefore, property is not part of the IBNR presented in this report.

## Riverside Community College District

Section I - Background and Objections

## Objectives

The specific objectives of this study are to:

1. Estimate Outstanding Losses - Estimate outstanding losses and remaining unreported claims as of June 30, 2010.

The estimated outstanding losses are the accrual cost of unpaid claims valued as of June 30, 2010. The estimated outstanding losses include case reserves, the development on known claims, Incurred But Not Reported (IBNR) claims, and allocated loss adjustment expenses (ALAE). Losses are adjusted for administrative expenses and anticipated stop-loss recoveries. ALAE are the direct expenses for settling specific claims. The amounts reflect the specific and annual aggregate limits retained by RCCD.
2. Projection of Self-Funded Medical Claims - Provide an actuarial projection of selffunded medical claim and associated expense payments under the PPO. Projected selffunded medical claims are adjusted for anticipated stop-loss recoveries.
3. Affirm Government Accounting Standards Board Statement Number 10 ("GASB

10"). Issue a statement affirming that the work performed and the conclusions contained in this report are consistent with GASB 10.

## Riverside Community College District

Section II - Conclusions

## Conclusions

We have reached the following conclusions:

## 1. Estimate Outstanding Losses

We estimate Incurred But Not Reported (IBNR) reserves as of June 30, 2010 as shown in Table II-1.

Table II-1: Estimated IBNR Reserve (As of June 30, 2010)

| Program | Estimated <br> IBNR Reserve |
| :--- | :---: |
| (A) Self-Funded Medical | $\$ 653,943$ |
| (B) Workers Compensation | $\$ 1,275,094$ |
| (C) Liability | $\$ 176,016$ |
| (D) Total | $\$ 2,105,053$ |

For informational purposes, we show estimated outstanding losses (including ALAE) as of June 30, 2010 in Table II-2. Case reserves do not exist for medical claims, thus the only reserve for self-funded medical is the IBNR.

Table II-2: Estimated Outstanding Losses - Expected Confidence Level (As of June 30, 2010)

| Program <br> (1) | Limited Case <br> Reserves <br> (2) | Estimated <br> Outstanding Losses <br> (3) | Estimated <br> IBNR Reserve <br> (4) |
| :--- | :---: | :---: | :---: |
| (A) Self-Funded Medical | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\$ 653,943$ |
| (B) Workers Compensation | $\$ 1,286,622$ | $\$ 2,561,716$ | $\$ 1,275,094$ |
| (C) Liability | $\$ 526,830$ | $\$ 702,846$ | $\$ 176,016$ |
| (D) Total | $\mathbf{\$ 1 , 8 1 3 , 4 5 2}$ | $\$ 3,264,562$ | $\$ 2,105,053$ |

Note: (A) is extracted from Appendix A, Exhibit HC-2, column (2).
(B) is extracted from Appendix B, Exhibit WC-10, columns (3), (6) and (7).
(C) is extracted from Appendix C, Exhibit LI-10, columns (3), (6) and (7).

## Riverside Community College District

Section II - Conclusions

The estimated IBNR reserve shown in Table II-3, column (2) for self-funded medical claims, and the estimated outstanding losses shown in Table II-4, column (2) for workers compensation and liability claims are at the expected confidence level, which means that actual loss experience may emerge higher or lower than the amount shown with equal likelihood.

For self-insured medical claims it may be prudent for RCCD to bolster its reserves with a Contingency Reserve. The contingency reserve reflects 2 months of weighted average paid claims in addition to the IBNR. This would entail RCCD reserving an additional \$51,776 to pay claims that have occurred on or before June 30, 2010, for a total reserve of \$705,719.

Table II-3: Estimated IBNR Reserve - Self-Funded Medical (As of June 30, 2010)
\(\left.$$
\begin{array}{||c|c|c|c||}\hline \hline \text { Program } & \begin{array}{c}\text { IBNR } \\
\text { (1) }\end{array} & \$ 653,943 & \begin{array}{c}\text { Contingency } \\
\text { Reserve } \\
\text { (3) }\end{array}
$$ <br>
\hline (A) Self-Funded Medical \& \$ 51,776 \& Total Reserve <br>

(4)\end{array}\right]\)| $\$ 705,719$ |
| :---: |

Note: (2) is from Table II-1.
$(3)=2$ months of weighted average loss [extracted from Appendix A, Exhibit HC-6, item (11)] trended $10 \%$.
$(4)=(2)+(3)$.

It is recommended that RCCD earmark funds of at least $\$ 3,264,562$ to pay Workers Compensation and Liability claims that have occurred on or before June 30, 2010. This figure represents the expected (or 50\%) confidence level of estimated outstanding losses.

For informational purposes, we show the estimated outstanding losses at higher levels of confidence in the table below. The higher the level of confidence, the greater the likelihood RCCD will have earmarked sufficient funds to pay the remaining claim balances for claims that occurred on or before June 30, 2010. In particular, if RCCD earmarks funds of at least $\$ 4,080,703$, there is a $75 \%$ likelihood RCCD will have sufficient funds to pay remaining claim balances for claims that occurred on or before June 30, 2010. Similarly, earmarked funds of at least $\$ 5,158,008$ means RCCD will have a $90 \%$ likelihood of having sufficient funds.

Table II-4: Estimated Outstanding Losses (As of June 30, 2010) at Various Levels of Confidence

| Program <br> (1) | Expected Confidence <br> Level <br> (2) | $\mathbf{7 5 \%}$ Confidence <br> Level <br> (3) | $\mathbf{9 0 \%}$ Confidence <br> Level <br> (4) |
| :--- | :---: | :---: | :---: |
| (A) Workers Compensation | $\$ 2,561,716$ | $\$ 3,202,145$ | $\$ 4,047,511$ |
| (B) Liability | $\$ 702,846$ | $\$ 878,558$ | $\$ 1,110,497$ |
| (C) Total | $\$ 3,264,562$ | $\$ 4,080,703$ | $\mathbf{\$ 5 , 1 5 8 , 0 0 8}$ |

## Riverside Community College District

Section II - Conclusions

Note: (2) is extracted from Table II-2, column (3).
$(3)=(2) \times 1.25$ based on a lognormal distribution and a coefficient of variation $=0.30$.
$(4)=(2) \times 1.58$ based on a lognormal distribution and a coefficient of variation $=0.30$.

## 2. Projection of Self-Funded Medical Claims

Table II-5 displays an actuarial projection of the self-funded medical claim and associated expense payments under the self-funded medical plan. Projected claims shown below reflect RCCD payments during the course of the next three fiscal years. These amounts reflect payments on past IBNR.

Table II-5: Projected Self-Funded Medical Claim and Expense Payments

| Payments <br> $\mathbf{( 1 )}$ | June 30, 2011 <br> (2) | June 30, 2012 <br> $\mathbf{( 3 )}$ | June 30, 2013 <br> (4) |
| :--- | :---: | :---: | :---: |
| (A) Projected Losses <br> (Net of Stop Loss) | $\$ 3,513,920$ | $\$ 3,768,173$ | $\$ 4,133,851$ |
| (B) Administrative Expenses | $\$ 108,260$ | $\$ 113,673$ | $\$ 119,356$ |
| (C) Stop Loss Expenses | $\$ 265,654$ | $\$ 278,936$ | $\$ 292,883$ |
| (D) Total Payments | $\$ \mathbf{\$ 3 8 7 , 8 3 3}$ | $\$ 4,160,782$ | $\$ 4,546,090$ |

Note: (A) is extracted from Appendix A, Exhibit HC-3, columns (4)-(6).
(B) is extracted from Appendix A, Exhibit HC-3, columns (9)-(11).
(C) is extracted from Appendix A, Exhibit HC-3, columns (14)-(16).

The corresponding IBNR reserves projected as of June 30, 2011, June 30, 2012 and June 30, 2013 are shown in Table II-6.

Table II-6: Projected IBNR

| Projected IBNR <br> (1) | June 30, 2011 <br> (2) | June 30, 2012 <br> (3) | June 30, 2013 <br> $(4)$ |
| :--- | :---: | :---: | :---: |
| (A) Reserve | $\$ 623,966$ | $\$ 683,034$ | $\$ 745,567$ |

Note: (A) is extracted from Appendix A, Exhibit HC-5, columns (8)-(10).

## 3. Affirm GASB 10

We affirm that the conclusions shown above in Table II-1 through Table II-6 were derived using generally accepted actuarial methods and assumptions. Therefore, our conclusions are consistent with GASB 10. The actuarial methods and assumptions used to derive these conclusions are documented in the exhibits shown in Appendix D and E of this report.

## Riverside Community College District

Section III - Actuarial Certification

## Actuarial Certification

Riverside Community College District ("RCCD") retained LECG to perform an actuarial valuation of its self-insured medical benefits, workers compensation, and general liability programs for the purpose of estimating plan costs and determining reserve amounts in accordance with generally accepted actuarial principles and practices.

The findings and conclusions shown in this report are derived from actuarial assumptions, accounting policies and methods adopted by RCCD. LECG did not independently study historic information to develop assumptions.

In our opinion, the actuarial assumptions and methods represent reasonable expectations of anticipated plan experience. To fulfill the applicable accounting requirements, each actuarial assumption should be management's "best estimate solely with respect to that individual assumption."

The undersigned is familiar with IBNR evaluations and meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinions contained herein. To the best of our knowledge, there are no existing conflicts of interest that would impede or influence our ability to complete this engagement.


Robert L. Cohen, FSA, EA, MAAA, CFA
Senior Manager, Compensation and Benefits
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## Appendix A

MEDICAL BENEFITS EXHIBITS

## Riverside Community College District

Appendix A - Healthcare Exhibits

Paid Claims by Month

| Month | Paid Amount | Month | Paid Amount |
| :---: | :---: | :---: | :---: |
| Jul-08 | 220,148 | Jul-09 | 260,521 |
| Aug-08 | 206,252 | Aug-09 | 121,009 |
| Sep-08 | 170,010 | Sep-09 | 126,130 |
| Oct-08 | 397,009 | Oct-09 | 235,877 |
| Nov-08 | 318,545 | Nov-09 | 240,069 |
| Dec-08 | 203,342 | Dec-09 | 199,470 |
| Jan-09 | 454,123 | Jan-10 | 224,319 |
| Feb-09 | 355,501 | Feb-10 | 328,798 |
| Mar-09 | 150,360 | Mar-10 | 456,189 |
| Apr-09 | 263,365 | Apr-10 | 691,218 |
| May-09 | 134,785 | May-10 | 239,731 |
| Jun-09 | 169,883 | Jun-10 | 253,709 |
| $n$ Year Total | 3,043,325 | n Year Total | 3,377,040 |

Stop Loss Premium, Recoveries and Claims Administration Expenses

| Fiscal Year | Stop Loss <br> Premiums | Stop Loss Recoveries | Administration Expenses |
| :---: | :---: | :---: | :---: |
| 04/05 | 237,943 | 15,629 | 70,436 |
| 05/06 | 47,537 | 20,427 | 77,100 |
| 06/07 | 132,655 | 0 | 70,842 |
| 07/08 | 153,075 | 19,722 | 90,187 |
| 08/09 | 202,416 | 19,475 | 90,137 |
| 09/10 | 265,654 |  | 108,260 |

## Riverside Community College District

Appendix A - Healthcare Exhibits

| Incurred Month <br> (1) | Estimated IBNR Reserve (2) |
| :---: | :---: |
| Jul-08 | 0 |
| Aug-08 | 2 |
| Sep-08 | 3 |
| Oct-08 | 248 |
| Nov-08 | 384 |
| Dec-08 | 718 |
| Jan-09 | 662 |
| Feb-09 | 314 |
| Mar-09 | 787 |
| Apr-09 | 722 |
| May-09 | 831 |
| Jun-09 | 1,054 |
| Jul-09 | 1,181 |
| Aug-09 | 1,565 |
| Sep-09 | 5,425 |
| Oct-09 | 6,649 |
| Nov-09 | 6,116 |
| Dec-09 | 11,757 |
| Jan-10 | 15,508 |
| Feb-10 | 29,140 |
| Mar-10 | 155,069 |
| Apr-10 | 37,997 |
| May-10 | 119,954 |
| Jun-10 | 262,106 |
| Total | 658,192 |
| Total (Net of Stop Loss) | 653,943 |

## Riverside Community College District

Appendix A - Healthcare Exhibits

Data Valued As of June 30, 2010

Projected Losses Paid During the Twelve Months Ending

| Plan <br> (1) | June 30, 2011 |  |  | June 30, 2012 <br> (5) | June 30, 2013 <br> (6) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Actual <br> (2) | Projected <br> (3) | Total <br> (4) |  |  |
| PPO | 571,293 | 2,942,627 | 3,513,920 | 3,768,173 | 4,133,851 |
|  | Projected Administrative Expenses Paid During the Twelve Months Ending |  |  |  |  |
|  | June 30, 2011 |  |  |  |  |
| Plan | Actual | Projected | Total | June 30, 2012 | June 30, 2013 |
| (1) | (7) | (8) | (9) | (10) | (11) |
| PPO | 36,087 | 72,173 | 108,260 | 113,673 | 119,356 |

Projected Stop Loss and Capitation Expenses Paid During the Twelve Months Ending

| Plan <br> (1) | June 30, 2011 |  |  | June 30, 2012 <br> (15) | June 30, 2013 <br> (16) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Actual (12) | $\begin{aligned} & \text { Projected } \\ & (13) \end{aligned}$ | Total <br> (14) |  |  |
| PPO - Stop Loss | 88,551 | 177,102 | 265,654 | 278,936 | 292,883 |
| Total | 695,931 | 3,191,903 | 3,887,833 | 4,160,782 | 4,546,090 |

Notes:
(2), (7) and (12): Per Riverside, thru June 30, 2010
(3): (4) - (2)
(4) - (6): Exhibit HC-5, Columns (5), (6) and (7). Paid PPO claims are reduced $0.6456 \%$ for expected stop-loss recoveries.
(8): Exhibit HC-4 (2) x Exhibit HC-4 (4) x 8
(9): $\quad(7)+(8)$
(10): Exhibit HC-4 (15) x Exhibit HC-4 (17) x 12
(11): Exhibit HC-4 (27) $\times$ Exhibit $\mathrm{HC}-4$ (29) $\times 12$
(13): Exhibit HC-4 (2) $\times$ Exhibit $\mathrm{HC}-4$ (6) $\times 8$
(14): $\quad(12)+(13)$
(15): Exhibit HC-4 (15) x Exhibit $\mathrm{HC}-4$ (19) $\times 12$
(16): Exhibit HC-4 (27) x Exhibit HC-4 (31) x 12

Data Valued As of June 30, 2010
Projection Assumptions
Enroll

| Plan(1) | Selected Average |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Enroll. <br> (2) | PMPM <br> (3) | PMPM <br> (4) | \% of Paid <br> (5) | Stop Loss PMPM (6) | Capitation PMPM | Stop-Loss Recovery <br> (8) |  |  |  |  |  |
| PPO | 286 | 987 | 31.54 | N/A | 77.40 | N/A | 0.6456\% |  |  |  |  |  |
|  | Fiscal 2011 (7/1/10-6/30/11) |  |  |  |  |  |  |  |  |  |  |  |
|  | Trend |  |  |  |  |  | Average |  |  |  |  |  |
| Plan <br> (1) | Enroll. <br> (9) | Claim PMPM (10) | Admin. PMPM (11) | pense \% of Paid (12) | Stop Loss PMPM (13) | Capitation PMPM (14) | Enroll. <br> (15) | Claim PMPM (16) | Admin. PMPM (17) | $\%$ of Paid (18) | Stop Loss PMPM (19) | Capitation PMPM (20) |
| PPO | 0.00\% | 10.00\% | 5.00\% | N/A | 5.00\% | N/A | 286 | 1,086 | 33.12 | N/A | 81.28 | N/A |
|  | Fiscal 2012 (7/1/11-6/30/12) |  |  |  |  |  |  |  |  |  |  |  |
|  | Trend |  |  |  |  |  | Average |  |  |  |  |  |
| Plan (1) | Enroll. <br> (21) | Claim PMPM (22) | Admin. PMPM (23) | pense \% of Paid (24) | Stop Loss PMPM (25) | Capitation PMPM (26) | Enroll. (27) | Claim PMPM (28) | $\begin{aligned} & \text { Admin } \\ & \text { PMPM } \\ & (29) \end{aligned}$ | \% of Paid (30) | Stop Loss PMPM (31) | Capitation PMPM (32) |
| PPO | 0.00\% | 10.00\% | 5.00\% | N/A | 5.00\% | N/A | 286 | 1,195 | 34.78 | N/A | 85.34 | N/A |
|  | Fiscal 2013 (7/1/12-6/30/13) |  |  |  |  |  |  |  |  |  |  |  |
|  | Trend |  |  |  |  |  | Average |  |  |  |  |  |
|  |  | Claim | Admin. Expense |  | $\begin{aligned} & \text { Stop Loss } \\ & \text { PMPM } \end{aligned}$ <br> (37) | $\begin{array}{r} \hline \text { Capitation } \\ \text { PMPM } \end{array}$(38) | Enroll. (39) | Claim | Admin. Expense |  | Stop Loss | Capitation |
| Plan <br> (1) | Enroll. <br> (33) | $\begin{aligned} & \text { PMPM } \\ & \text { (34) } \end{aligned}$ | PMPM (35) | \% of Paid <br> (36) |  |  |  | PMPM <br> (40) | PMPM <br> (41) | $\%$ of Paid <br> (42) | PMPM <br> (43) | PMPM <br> (44) |
| PPO | 0.00\% | 9.00\% | 5.00\% | N/A | 5.00\% | N/A 286 |  | 1,302 | 36.52 | N/A | 89.61 | N/A |

Notes:
(2), (4) - (6): Per Riverside data, Judgmental
(3): Exhibit HC-5, (11)
(7): N/A
(8): Judgmentally selected
(9) - (14): Judgmentally selected
(21) - (26): Judgmentally selected
(27) - (32): (2) - (7) Trended to June 30, 2010
(33) - (38): Judgmentally selected
(39) - (44): (2) - (7) Trended to June 30, 2011
(15) - (20): (2) - (7) Trended to June 30, 2012

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| Incurred |  | Average | Ulitimate | Expected Paid During 12 mo. Ending |  |  | Expected Reserves as of |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month (1) | Enrollment <br> (2) | Loss (3) | Losses <br> (4) | $6 / 30 / 2011$ <br> (5) | $6 / 30 / 2012$ <br> (6) | $\begin{gathered} 6 / 30 / 2013 \\ (7) \end{gathered}$ | $6 / 30 / 2011$ <br> (8) | $6 / 30 / 2012$ <br> (9) | $\begin{gathered} \text { 6/30/2013 } \\ (10) \end{gathered}$ |
| Jul-08 |  |  | 193,705 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aug-08 |  |  | 152,646 | 2 | 0 | 0 | 0 | 0 | 0 |
| Sep-08 |  |  | 180,462 | 3 | 0 | 0 | 0 | 0 | 0 |
| Oct-08 |  |  | 151,705 | 248 | 0 | 0 | 0 | 0 | 0 |
| Nov-08 |  |  | 219,294 | 384 | 0 | 0 | 0 | 0 | 0 |
| Dec-08 |  |  | 409,709 | 718 | 0 | 0 | 0 | 0 | 0 |
| Jan-09 |  |  | 377,480 | 662 | 0 | 0 | 0 | 0 | 0 |
| Feb-09 |  |  | 178,962 | 314 | 0 | 0 | 0 | 0 | 0 |
| Mar-09 |  |  | 183,613 | 787 | 0 | 0 | 0 | 0 | 0 |
| Apr-09 |  |  | 168,349 | 722 | 0 | 0 | 0 | 0 | 0 |
| May-09 |  |  | 186,352 | 831 | 0 | 0 | 0 | 0 | 0 |
| Jun-09 |  |  | 199,745 | 1,054 | 0 | 0 | 0 | 0 | 0 |
| Jul-09 |  |  | 117,275 | 1,181 | 0 | 0 | 0 | 0 | 0 |
| Aug-09 |  |  | 134,243 | 1,563 | 2 | 0 | 2 | 0 | 0 |
| Sep-09 |  |  | 288,596 | 5,420 | 5 | 0 | 5 | 0 | 0 |
| Oct-09 |  |  | 284,369 | 6,184 | 465 | 0 | 465 | 0 | 0 |
| Nov-09 |  |  | 210,307 | 5,747 | 369 | 0 | 369 | 0 | 0 |
| Dec-09 |  |  | 244,788 | 11,328 | 429 | 0 | 429 | 0 | 0 |
| Jan-10 |  |  | 222,378 | 15,119 | 390 | 0 | 390 | 0 | 0 |
| Feb-10 |  |  | 273,454 | 28,661 | 479 | 0 | 479 | 0 | 0 |
| Mar-10 |  |  | 1,100,552 | 150,349 | 4,720 | 0 | 4,720 | 0 | 0 |
| Apr-10 |  |  | 184,659 | 37,205 | 792 | 0 | 792 | 0 | 0 |
| May-10 |  |  | 291,832 | 122,653 | 1,302 | 0 | 1,302 | 0 | 0 |
| Jun-10 |  |  | 283,126 | 261,273 | 1,495 | 0 | 1,495 | 0 | 0 |
| Jul-10 | 286 | 987 | 282,413 | 279,569 | 2,844 | 0 | 2,844 | 0 | 0 |
| Aug-10 | 286 | 987 | 282,413 | 279,120 | 3,289 | 5 | 3,293 | 5 | 0 |
| Sep-10 | 286 | 987 | 282,413 | 277,104 | 5,304 | 5 | 5,309 | 5 | 0 |
| Oct-10 | 286 | 987 | 282,413 | 275,810 | 6,142 | 461 | 6,603 | 461 | 0 |
| Nov-10 | 286 | 987 | 282,413 | 274,200 | 7,717 | 495 | 8,212 | 495 | 0 |
| Dec-10 | 286 | 987 | 282,413 | 268,848 | 13,069 | 495 | 13,564 | 495 | 0 |
| Jan-11 | 286 | 987 | 282,413 | 262,718 | 19,200 | 495 | 19,695 | 495 | 0 |
| Feb-11 | 286 | 987 | 282,413 | 252,318 | 29,599 | 495 | 30,094 | 495 | 0 |
| Mar-11 | 286 | 1,086 | 310,654 | 266,883 | 42,439 | 1,332 | 43,772 | 1,332 | 0 |
| Apr-11 | 286 | 1,086 | 310,654 | 246,732 | 62,590 | 1,332 | 63,922 | 1,332 | 0 |
| May-11 | 286 | 1,086 | 310,654 | 178,704 | 130,564 | 1,385 | 131,950 | 1,385 | 0 |
| Jun-11 | 286 | 1,086 | 310,654 | 22,338 | 286,676 | 1,640 | 288,316 | 1,640 | 0 |
| Jul-11 | 286 | 1,086 | 310,654 | 0 | 307,526 | 3,128 | 0 | 3,128 | 0 |
| Aug-11 | 286 | 1,086 | 310,654 | 0 | 307,032 | 3,618 | 0 | 3,623 | 5 |
| Sep-11 | 286 | 1,086 | 310,654 | 0 | 304,814 | 5,835 | 0 | 5,840 | 5 |
| Oct-11 | 286 | 1,086 | 310,654 | 0 | 303,391 | 6,756 | 0 | 7,263 | 508 |
| Nov-11 | 286 | 1,086 | 310,654 | 0 | 301,620 | 8,489 | 0 | 9,034 | 544 |
| Dec-11 | 286 | 1,086 | 310,654 | 0 | 295,733 | 14,376 | 0 | 14,921 | 544 |
| Jan-12 | 286 | 1,086 | 310,654 | 0 | 288,990 | 21,120 | 0 | 21,665 | 544 |
| Feb-12 | 286 | 1,086 | 310,654 | 0 | 277,550 | 32,559 | 0 | 33,104 | 544 |
| Mar-12 | 286 | 1,195 | 341,720 | 0 | 293,571 | 46,683 | 0 | 48,149 | 1,466 |
| Apr-12 | 286 | 1,195 | 341,720 | 0 | 271,405 | 68,849 | 0 | 70,314 | 1,466 |
| May-12 | 286 | 1,195 | 341,720 | 0 | 196,575 | 143,621 | 0 | 145,145 | 1,524 |
| Jun-12 | 286 | 1,195 | 341,720 | 0 | 24,572 | 315,344 | 0 | 317,148 | 1,804 |
| Jul-12 | 286 | 1,195 | 341,720 | 0 | 0 | 338,279 | 0 | 0 | 3,441 |
| Aug-12 | 286 | 1,195 | 341,720 | 0 | 0 | 337,735 | 0 | 0 | 3,985 |
| Sep-12 | 286 | 1,195 | 341,720 | 0 | 0 | 335,296 | 0 | 0 | 6,424 |
| Oct-12 | 286 | 1,195 | 341,720 | 0 | 0 | 333,730 | 0 | 0 | 7,990 |
| Nov-12 | 286 | 1,195 | 341,720 | 0 | 0 | 331,783 | 0 | 0 | 9,937 |
| Dec-12 | 286 | 1,195 | 341,720 | 0 | 0 | 325,307 | 0 | 0 | 16,413 |
| Jan-13 | 286 | 1,195 | 341,720 | 0 | 0 | 317,889 | 0 | 0 | 23,831 |
| Feb-13 | 286 | 1,195 | 341,720 | 0 | 0 | 305,305 | 0 | 0 | 36,414 |
| Mar-13 | 286 | 1,302 | 372,474 | 0 | 0 | 319,992 | 0 | 0 | 52,482 |
| Apr-13 | 286 | 1,302 | 372,474 | 0 | 0 | 295,832 | 0 | 0 | 76,643 |
| May-13 | 286 | 1,302 | 372,474 | 0 | 0 | 214,267 | 0 | 0 | 158,208 |
| Jun-13 | 286 | 1,302 | 372,474 | 0 | 0 | 26,783 | 0 | 0 | 345,691 |
| Jul-13 | 286 | 1,302 | 372,474 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aug-13 | 286 | 1,302 | 372,474 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sep-13 | 286 | 1,302 | 372,474 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oct-13 | 286 | 1,302 | 372,474 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nov-13 | 286 | 1,302 | 372,474 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dec-13 | 286 | 1,302 | 372,474 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jan-14 | 286 | 1,302 | 372,474 | 0 | 0 | 0 | 0 | 0 | 0 |
| Feb-14 | 286 | 1,302 | 372,474 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total |  |  |  | 3,536,754 | 3,792,659 | 4,160,714 | 628,020 | 687,472 | 750,412 |
| Total (Net of Stop Loss) |  |  |  | 3,513,920 | 3,768,173 | 4,133,851 | 623,966 | 683,034 | 745,567 |
| Notes: |  |  |  |  |  |  |  |  |  |
| (2), (3): | Exhibit HC-3 |  |  |  |  |  |  |  |  |
|  | Exhibit HC-6 |  |  |  |  |  |  |  |  |
| (5) - (10): | Exhibit HC-7, pag | and 6, loss de | ment factors | ied to (4) |  |  |  |  |  |

Riverside Community College District
Appendix A - Healthcare Exhibits


# Data Valued As of June 30, 2010 

## Selection of Ultimate Losses

| Incurred <br> Month <br> (1) | Age (month) (2) | Enrollment <br> (3) | Paid Losses <br> (4) | Cumulative Development Factor (5) | Selection of Ultimate Losses |  |  |  |  |  | Selected Ultimate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Dollars |  |  | Weights |  |  |  |
|  |  |  |  |  | Paid | Paid |  | Paid | Paid |  |  |
|  |  |  |  |  | Development | BF | Expected | Development | BF | Expected | Losses |
|  |  |  |  |  | (6) | (7) | (8) | (9) | (10) |  | (12) |
| Jul-08 | 24 | 270 | 193,705 | 1.000 | 193,705 | 193,705 | 266,614 | 1.000 | - |  | 193,705 |
| Aug-08 | 23 | 268 | 152,644 | 1.000 | 152,646 | 152,648 | 264,639 | 1.000 | - |  | 152,646 |
| Sep-08 | 22 | 268 | 180,459 | 1.000 | 180,462 | 180,464 | 264,639 | 1.000 | - |  | 180,462 |
| Oct-08 | 21 | 286 | 151,457 | 1.002 | 151,705 | 151,919 | 282,413 | 1.000 | - | - | 151,705 |
| Nov-08 | 20 | 287 | 218,910 | 1.002 | 219,294 | 219,407 | 283,400 | 1.000 | - | - | 219,294 |
| Dec-08 | 19 | 285 | 408,991 | 1.002 | 409,709 | 409,484 | 281,425 | 1.000 | - | - | 409,709 |
| Jan-09 | 18 | 286 | 376,818 | 1.002 | 377,480 | 377,313 | 282,413 | 1.000 | - | - | 377,480 |
| Feb-09 | 17 | 286 | 178,649 | 1.002 | 178,962 | 179,144 | 282,413 | 1.000 | - | - | 178,962 |
| Mar-09 | 16 | 286 | 182,826 | 1.004 | 183,613 | 184,037 | 282,413 | 1.000 | - | - | 183,613 |
| Apr-09 | 15 | 288 | 167,627 | 1.004 | 168,349 | 168,846 | 284,388 | 1.000 | - | - | 168,349 |
| May-09 | 14 | 287 | 185,521 | 1.004 | 186,352 | 186,785 | 283,400 | 1.000 | - | - | 186,352 |
| Jun-09 | 13 | 288 | 198,690 | 1.005 | 199,745 | 200,192 | 284,388 | 1.000 | - | - | 199,745 |
| Jul-09 | 12 | 286 | 116,094 | 1.010 | 117,275 | 118,938 | 282,413 | 1.000 | - | - | 117,275 |
| Aug-09 | 11 | 289 | 132,677 | 1.012 | 134,243 | 136,005 | 285,375 | 1.000 | - | - | 134,243 |
| Sep-09 | 10 | 286 | 283,171 | 1.019 | 288,596 | 288,480 | 282,413 | 1.000 | - | - | 288,596 |
| Oct-09 | 9 | 296 | 277,720 | 1.024 | 284,369 | 284,554 | 292,287 | 1.000 | - | - | 284,369 |
| Nov-09 | 8 | 294 | 204,191 | 1.030 | 210,307 | 212,633 | 290,313 | 1.000 | - | - | 210,307 |
| Dec-09 | 7 | 293 | 233,031 | 1.050 | 244,788 | 246,927 | 289,325 | 1.000 | - | - | 244,788 |
| Jan-10 | 6 | 294 | 206,870 | 1.075 | 222,378 | 227,116 | 290,313 | 1.000 | - | - | 222,378 |
| Feb-10 | 5 | 292 | 244,314 | 1.119 | 273,454 | 275,040 | 288,338 | 1.000 | - | - | 273,454 |
| Mar-10 | 4 | 290 | 945,483 | 1.164 | 1,100,552 | 985,831 | 286,363 | 1.000 | - | - | 1,100,552 |
| Apr-10 | 3 | 286 | 146,662 | 1.259 | 184,659 | 204,774 | 282,413 | 1.000 | - | - | 184,659 |
| May-10 | 2 | 286 | 171,877 | 1.738 | 298,786 | 291,832 | 282,413 | - | 1.000 | - | 291,832 |
| Jun-10 | 1 | 286 | 21,021 | 13.907 | 292,335 | 283,126 | 282,413 | - | 1.000 | - | 283,126 |
| Total |  | 6,863 | 5,579,409 |  | 6,253,764 | 6,159,199 | 6,776,921 |  |  |  | 6,237,601 |

Notes:
(3), (4): $\quad$ Per Riverside
(5): Exhibit HC-7, pages 5 and 6
(7): Bornhuetter-Ferguson Method: (4) $+[1-1 /(5)] \times(8)$
(8): [Exhibit HC-5, (11)] $\times(3)$
(9) - (11): Judgmentally selected
(12): Sumproduct $\{(6):(8),(9):(11)\}$

Data Valued As of June 30, 2010
Cumulative Paid Claims By Month Incurred
Does Not Reflect Stop Loss Recoveries

| Claim <br> Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | $\begin{aligned} & \text { Age } \\ & 8 \end{aligned}$ | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Feb-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mar-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apr-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jun-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jul-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aug-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sep-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oct-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nov-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dec-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jan-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,757 |
| Feb-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Mar-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 708 | 912 | 1,032 |
| Apr-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,051 | 1,051 | 1,235 | 1,566 |
| May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 3,082 | 3,158 | 3,408 | 3,584 |
| Jun-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9,313 | 17,601 | 18,616 | 19,285 | 19,285 | 19,295 |
| Jul-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,032 | 18,891 | 19,163 | 19,359 | 19,655 | 19,655 | 19,655 |
| Aug-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,538 | 20,796 | 21,327 | 21,759 | 22,321 | 22,321 | 22,506 | 22,506 |
| Sep-07 | 0 | 0 | 0 | 0 | 0 | 0 | 6,076 | 13,443 | 14,566 | 15,584 | 15,734 | 17,316 | 18,620 | 18,655 | 18,943 |
| Oct-07 | 0 | 0 | 0 | 0 | 0 | 14,284 | 17,225 | 18,349 | 19,177 | 13,397 | 13,420 | 13,833 | 14,182 | 14,147 | 14,138 |
| Nov-07 | 0 | 0 | 0 | 0 | 32,108 | 37,210 | 39,864 | 40,491 | 40,914 | 41,278 | 42,070 | 43,685 | 43,753 | 43,623 | 44,265 |
| Dec-07 | 0 | 0 | 0 | 53,854 | 64,791 | 70,193 | 71,968 | 73,236 | 73,371 | 72,047 | 72,047 | 72,543 | 72,513 | 72,909 | 72,986 |
| Jan-08 | 0 | 0 | 102,098 | 126,645 | 133,006 | 135,849 | 137,150 | 144,310 | 145,512 | 146,075 | 146,429 | 146,438 | 146,961 | 147,377 | 147,377 |
| Feb-08 | 0 | 32,245 | 136,990 | 167,278 | 190,436 | 193,048 | 210,988 | 215,704 | 217,046 | 218,519 | 218,793 | 220,216 | 221,985 | 221,985 | 221,935 |
| Mar-08 | 75 | 29,041 | 277,226 | 300,788 | 311,528 | 312,970 | 315,285 | 316,376 | 317,843 | 317,833 | 318,610 | 321,094 | 320,887 | 320,887 | 320,939 |
| Apr-08 | 0 | 43,960 | 99,175 | 142,872 | 147,527 | 153,942 | 155,982 | 157,532 | 158,821 | 160,002 | 160,702 | 160,433 | 160,545 | 160,545 | 160,480 |
| May-08 | 248 | 47,540 | 119,173 | 197,868 | 213,428 | 214,575 | 222,107 | 222,773 | 227,742 | 228,558 | 228,580 | 235,075 | 238,724 | 239,658 | 239,701 |
| Jun-08 | 282 | 93,238 | 167,756 | 182,587 | 448,274 | 507,850 | 509,607 | 511,819 | 513,906 | 516,291 | 516,724 | 517,179 | 517,030 | 517,030 | 517,030 |
| Jul-08 | 0 | 19,028 | 93,150 | 154,066 | 173,135 | 175,720 | 184,284 | 186,045 | 186,784 | 193,267 | 193,379 | 193,581 | 193,672 | 193,672 | 193,672 |
| Aug-08 | 0 | 37,656 | 84,804 | 120,032 | 138,532 | 143,080 | 144,553 | 146,634 | 147,304 | 149,814 | 151,128 | 152,612 | 152,632 | 152,632 | 152,644 |
| Sep-08 | 11,792 | 26,609 | 133,256 | 160,912 | 163,275 | 169,254 | 170,119 | 171,355 | 172,071 | 180,606 | 183,018 | 183,018 | 183,018 | 183,375 | 183,651 |
| Oct-08 | 0 | 69,272 | 104,852 | 140,533 | 143,112 | 145,685 | 147,874 | 149,160 | 150,159 | 150,907 | 150,907 | 151,422 | 151,586 | 151,738 | 151,738 |
| Nov-08 | 15,273 | 127,520 | 178,288 | 189,607 | 193,602 | 204,034 | 210,578 | 215,718 | 219,766 | 220,637 | 220,783 | 220,043 | 220,280 | 220,347 | 220,347 |
| Dec-08 | 4,141 | 318,474 | 358,640 | 365,507 | 374,747 | 377,344 | 384,620 | 385,557 | 385,880 | 386,897 | 394,414 | 395,557 | 408,930 | 408,961 | 408,961 |
| Jan-09 | 24,816 | 290,472 | 334,227 | 358,695 | 360,990 | 366,463 | 371,636 | 372,692 | 374,135 | 374,711 | 375,179 | 375,351 | 376,291 | 376,305 | 376,371 |
| Feb-09 | 17,248 | 83,155 | 153,841 | 162,609 | 168,307 | 173,140 | 175,148 | 175,541 | 175,639 | 176,148 | 176,200 | 177,155 | 177,853 | 178,673 | 178,649 |
| Mar-09 | 18,306 | 112,652 | 135,933 | 149,729 | 163,864 | 166,347 | 175,595 | 176,545 | 178,138 | 180,994 | 181,584 | 182,733 | 182,811 | 182,811 | 182,826 |
| Apr-09 | 36,179 | 99,881 | 118,963 | 134,268 | 138,540 | 154,057 | 158,494 | 159,072 | 159,972 | 160,868 | 166,662 | 166,873 | 167,680 | 167,627 | 167,627 |
| May-09 | 18,153 | 93,042 | 147,659 | 155,809 | 166,273 | 174,817 | 175,923 | 177,855 | 178,904 | 182,934 | 184,333 | 184,452 | 185,262 | 185,521 | 185,587 |
| Jun-09 | 27,162 | 140,113 | 169,156 | 177,121 | 187,769 | 189,403 | 191,244 | 191,815 | 195,887 | 197,240 | 198,432 | 198,666 | 198,690 | 198,853 | 198,846 |
| Jul-09 | 40,890 | 74,425 | 91,255 | 106,400 | 110,137 | 113,585 | 115,867 | 116,270 | 116,643 | 114,779 | 116,046 | 116,094 | 116,762 | 116,753 | 116,765 |
| Aug-09 | 38,299 | 88,592 | 109,636 | 113,930 | 121,722 | 125,552 | 126,491 | 131,182 | 131,719 | 132,488 | 132,677 | 132,765 | 136,415 | 136,415 | 137,624 |
| Sep-09 | 13,229 | 159,755 | 191,225 | 228,764 | 236,074 | 275,518 | 276,826 | 281,722 | 282,854 | 283,171 | 283,232 | 283,421 | 283,714 | 283,806 |  |
| Oct-09 | 20,783 | 205,746 | 235,932 | 250,730 | 254,580 | 256,133 | 274,318 | 275,679 | 277,720 | 278,615 | 278,736 | 278,752 | 367,290 |  |  |
| Nov-09 | 7,911 | 106,090 | 176,727 | 190,988 | 196,092 | 198,413 | 202,608 | 204,191 | 205,139 | 205,212 | 205,356 | 205,434 |  |  |  |
| Dec-09 | 1,133 | 100,365 | 199,881 | 213,847 | 228,752 | 230,365 | 233,031 | 265,595 | 266,074 | 266,285 | 266,345 |  |  |  |  |
| Jan-10 | 16,323 | 145,017 | 181,065 | 193,101 | 198,621 | 206,870 | 213,480 | 214,723 | 217,288 | 217,670 |  |  |  |  |  |
| Feb-10 | 25,727 | 187,088 | 209,799 | 238,910 | 244,314 | 246,996 | 247,408 | 248,507 | 249,526 |  |  |  |  |  |  |
| Mar-10 | 227,680 | 822,887 | 923,207 | 945,483 | 966,378 | 976,100 | 978,985 | 979,949 |  |  |  |  |  |  |  |
| Apr-10 | 31,853 | 105,318 | 146,662 | 151,600 | 156,889 | 157,929 | 159,180 |  |  |  |  |  |  |  |  |
| May-10 | 23,371 | 171,877 | 345,745 | 356,199 | 361,112 | 366,916 |  |  |  |  |  |  |  |  |  |
| Jun-10 | 21,021 | 182,244 | 253,853 | 272,324 | 280,158 |  |  |  |  |  |  |  |  |  |  |
| Jul-10 | 27,126 | 248,737 | 262,966 | 268,396 |  |  |  |  |  |  |  |  |  |  |  |
| Aug-10 | 30,746 | 122,195 | 135,515 |  |  |  |  |  |  |  |  |  |  |  |  |
| Sep-10 | 27,616 | 90,155 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oct-10 | 19,125 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Data Valued As of June 30, 2010
Cumulative Paid Claims By Month Incurred
Does Not Reflect Stop Loss Recoveries

| Claim Month | 16 | 17 | 18 | 19 | 20 | 21 | $\begin{aligned} & \text { Age } \\ & 22 \end{aligned}$ | 23 | 24 | 25 | 26 | 27 | 28 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Feb-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 0 |
| Mar-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apr-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jun-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Jul-06 | 0 | 0 | 0 | 0 | 0 | 637 | 637 | 637 | 637 | 637 | 637 | 637 | 637 |
| Aug-06 | 0 | 0 | 0 | 0 | 0 | 411 | 411 | 411 | 411 | 411 | 411 | 411 | 411 |
| Sep-06 | 0 | 0 | 0 | 150 | 150 | 150 | 150 | 150 | 452 | 452 | 452 | 452 | 452 |
| Oct-06 | 0 | 0 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| Nov-06 | 0 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Dec-06 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 25 |
| Jan-07 | 3,771 | 3,771 | 3,771 | 3,771 | 3,771 | 3,771 | 3,871 | 3,871 | 3,871 | 3,871 | 3,871 | 3,871 | 3,871 |
| Feb-07 | 23 | 1,367 | 1,470 | 1,478 | 1,478 | 1,478 | 1,478 | 1,478 | 1,478 | 1,478 | 1,478 | 1,478 | 1,478 |
| Mar-07 | 1,032 | 1,044 | 1,044 | 1,044 | 1,044 | 1,044 | 1,044 | 1,044 | 1,044 | 1,044 | 1,044 | 1,044 | 1,044 |
| Apr-07 | 1,566 | 1,566 | 1,589 | 1,727 | 1,727 | 1,601 | 1,751 | 1,751 | 1,751 | 1,751 | 1,751 | 1,751 | 1,751 |
| May-07 | 3,973 | 3,973 | 3,995 | 3,995 | 3,995 | 3,995 | 3,995 | 3,995 | 3,995 | 4,541 | 4,541 | 4,541 | 4,541 |
| Jun-07 | 19,301 | 19,301 | 19,329 | 18,360 | 18,360 | 18,360 | 18,360 | 18,360 | 18,360 | 18,360 | 18,360 | 18,360 | 18,360 |
| Jul-07 | 19,655 | 19,655 | 19,655 | 19,655 | 19,655 | 19,655 | 19,655 | 19,655 | 19,655 | 19,655 | 19,655 | 19,655 | 19,655 |
| Aug-07 | 22,766 | 22,747 | 22,747 | 22,747 | 22,747 | 22,747 | 22,747 | 22,747 | 22,747 | 22,747 | 21,377 | 21,377 | 17,233 |
| Sep-07 | 18,943 | 19,613 | 19,659 | 19,659 | 19,669 | 19,669 | 19,669 | 19,669 | 19,669 | 19,669 | 19,669 | 19,669 | 18,857 |
| Oct-07 | 14,243 | 15,104 | 15,554 | 15,565 | 15,565 | 15,565 | 15,587 | 15,587 | 15,587 | 15,587 | 15,587 | 15,587 | 15,587 |
| Nov-07 | 44,329 | 44,329 | 44,329 | 44,329 | 44,102 | 44,102 | 44,949 | 44,949 | 44,949 | 44,949 | 44,949 | 44,949 | 44,949 |
| Dec-07 | 75,878 | 76,180 | 76,180 | 76,180 | 76,180 | 76,180 | 76,180 | 75,994 | 75,994 | 75,994 | 75,994 | 75,994 | 75,994 |
| Jan-08 | 147,501 | 147,603 | 147,366 | 150,359 | 150,395 | 150,395 | 150,395 | 150,395 | 150,395 | 150,395 | 150,395 | 150,395 | 150,414 |
| Feb-08 | 221,946 | 221,884 | 221,884 | 221,884 | 221,900 | 221,900 | 221,900 | 221,900 | 221,900 | 221,987 | 221,987 | 221,952 | 221,952 |
| Mar-08 | 321,059 | 321,059 | 321,069 | 321,084 | 321,084 | 321,084 | 321,084 | 321,084 | 321,156 | 321,156 | 321,156 | 321,064 | 321,064 |
| Apr-08 | 160,308 | 160,318 | 160,406 | 160,406 | 160,406 | 160,406 | 160,406 | 160,406 | 160,406 | 160,172 | 159,872 | 159,872 | 159,872 |
| May-08 | 239,745 | 240,193 | 240,193 | 240,193 | 240,193 | 240,193 | 240,193 | 240,280 | 240,280 | 240,280 | 240,280 | 240,280 | 240,280 |
| Jun-08 | 516,904 | 516,904 | 516,904 | 516,904 | 516,904 | 516,904 | 516,904 | 516,886 | 516,871 | 516,635 | 516,504 | 516,504 | 516,504 |
| Jul-08 | 193,672 | 193,672 | 193,672 | 193,695 | 193,705 | 193,705 | 193,705 | 193,705 | 193,705 | 193,705 | 193,705 | 193,705 | 193,705 |
| Aug-08 | 152,644 | 152,644 | 152,644 | 152,644 | 152,644 | 152,644 | 152,644 | 152,644 | 152,644 | 152,644 | 152,644 | 152,644 |  |
| Sep-08 | 183,651 | 188,505 | 188,505 | 188,505 | 180,235 | 180,459 | 180,459 | 180,459 | 180,459 | 180,459 | 180,459 |  |  |
| Oct-08 | 151,738 | 151,776 | 151,776 | 151,233 | 151,457 | 151,457 | 151,493 | 151,519 | 151,540 | 151,540 |  |  |  |
| Nov-08 | 220,347 | 220,347 | 218,980 | 218,893 | 218,910 | 218,950 | 218,950 | 218,950 | 219,425 |  |  |  |  |
| Dec-08 | 409,052 | 408,991 | 408,991 | 408,991 | 408,991 | 409,003 | 409,003 | 409,003 |  |  |  |  |  |
| Jan-09 | 376,030 | 376,818 | 376,818 | 377,044 | 377,905 | 377,978 | 378,181 |  |  |  |  |  |  |
| Feb-09 | 178,649 | 178,649 | 178,649 | 178,649 | 178,649 | 178,649 |  |  |  |  |  |  |  |
| Mar-09 | 182,826 | 182,826 | 182,405 | 182,405 | 182,470 |  |  |  |  |  |  |  |  |
| Apr-09 | 167,627 | 167,627 | 167,677 | 167,677 |  |  |  |  |  |  |  |  |  |
| May-09 | 185,606 | 185,606 | 185,627 |  |  |  |  |  |  |  |  |  |  |
| Jun-09 | 198,858 | 198,858 |  |  |  |  |  |  |  |  |  |  |  |
| Jul-09 | 117,577 |  |  |  |  |  |  |  |  |  |  |  |  |

LECG

Riverside Community College District
Appendix A - Healthcare Exhibits

Paid Claims By Month Incurred
Exhibit HC-8 (page 3)


| Incurred Month | Age |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| Feb-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | (69) |
| Mar-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apr-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jun-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Jul-06 | 0 | 0 | 0 | 0 | 0 | 0 | 637 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aug-06 | 0 | 0 | 0 | 0 | 0 | 0 | 411 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sep-06 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 302 | 0 | 0 | 0 | 0 |
| Oct-06 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nov-06 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dec-06 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Jan-07 | 3,757 | 15 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| Feb-07 | 23 | 0 | 1,344 | 103 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mar-07 | 120 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apr-07 | 330 | 0 | 0 | 23 | 138 | 0 | (125) | 150 | 0 | 0 | 0 | 0 | 0 | 0 |
| May-07 | 176 | 390 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 546 | 0 | 0 | 0 |
| Jun-07 | 10 | 6 | 0 | 28 | (969) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jul-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aug-07 | 0 | 260 | (18) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $(1,371)$ | 0 | $(4,144)$ |
| Sep-07 | 288 | 0 | 670 | 46 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (812) |
| Oct-07 | (9) | 105 | 862 | 450 | 10 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nov-07 | 642 | 64 | 0 | 0 | 0 | (227) | 0 | 847 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dec-07 | 77 | 2,892 | 302 | 0 | 0 | 0 | 0 | 0 | (185) | 0 | 0 | 0 | 0 | 0 |
| Jan-08 | 0 | 124 | 102 | (238) | 2,993 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| Feb-08 | (49) | 11 | (62) | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 86 | 0 | (35) | 0 |
| Mar-08 | 53 | 120 | 0 | 10 | 15 | 0 | 0 | 0 | 0 | 72 | 0 | 0 | (92) | 0 |
| Apr-08 | (64) | (173) | 10 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | (233) | (300) | 0 | 0 |
| May-08 | 43 | 44 | 448 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 0 | 0 | (0) | 0 |
| Jun-08 | 0 | (126) | 0 | 0 | 0 | 0 | 0 | 0 | (18) | (15) | (236) | (131) | 0 | 0 |
| Jul-08 | 0 | 0 | 0 | 0 | 23 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aug-08 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Sep-08 | 276 | 0 | 4,854 | 0 | 0 | $(8,270)$ | 225 | 0 | 0 | 0 | 0 | 0 |  |  |
| Oct-08 | 0 | 0 | 39 | 0 | (544) | 225 | 0 | 35 | 26 | 21 | 0 |  |  |  |
| Nov-08 | 0 | 0 | 0 | $(1,367)$ | (87) | 17 | 40 | 0 | 0 | 475 |  |  |  |  |
| Dec-08 | 0 | 91 | (60) | 0 | 0 | 0 | 12 | 0 | 0 |  |  |  |  |  |
| Jan-09 | 66 | (340) | 788 | 0 | 226 | 860 | 73 | 203 |  |  |  |  |  |  |
| Feb-09 | (24) | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |
| Mar-09 | 15 | 0 | 0 | (421) | 0 | 65 |  |  |  |  |  |  |  |  |
| Apr-09 | 0 | 0 | 0 | 50 | 0 |  |  |  |  |  |  |  |  |  |
| May-09 | 66 | 19 | 0 | 21 |  |  |  |  |  |  |  |  |  |  |
| Jun-09 | (7) | 11 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| Jul-09 | 13 | 811 |  |  |  |  |  |  |  |  |  |  |  |  |
| Aug-09 | 1,209 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sep-09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oct-09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov-09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec-09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Feb-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mar-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apr-10May-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jun-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jul-10Aug-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sep-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oct-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Appendix B

## WORKERS COMPENSATION EXHIBITS

Data Valued as of June 30, 2010


Amounts are gross of recoveries but net of excess insurance

* the District was commercially insured for claim periods prior to 1997/98.
(6), (7) and (8) are net of specific excess reinsurance, but gross of aggregate reinsurance

Data was provided by York.

| Summary of Percent Losses Paid, Losses Reported and Claims Reported |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Months of | Percent Losses | Percent <br> Losses | Percent Claims | Months of | Percent Losses | Percent <br> Losses | Percent Claims |
| Development <br> (1) | Paid <br> (2) | Reported <br> (3) | Reported <br> (4) | Development <br> (5) | Paid <br> (6) | Reported <br> (7) | Reported <br> (8) |
| 360.0 | 100.0\% | 100.0\% | 100.0\% | 360.0 | 100.0\% | 100.0\% | 100.0\% |
| 348.0 | 100.0\% | 100.0\% | 100.0\% | 348.0 | 100.0\% | 100.0\% | 100.0\% |
| 336.0 | 100.0\% | 100.0\% | 100.0\% | 336.0 | 100.0\% | 100.0\% | 100.0\% |
| 324.0 | 100.0\% | 100.0\% | 100.0\% | 324.0 | 100.0\% | 100.0\% | 100.0\% |
| 312.0 | 100.0\% | 100.0\% | 100.0\% | 312.0 | 100.0\% | 100.0\% | 100.0\% |
| 300.0 | 100.0\% | 100.0\% | 100.0\% | 300.0 | 100.0\% | 100.0\% | 100.0\% |
| 288.0 | 100.0\% | 100.0\% | 100.0\% | 288.0 | 100.0\% | 100.0\% | 100.0\% |
| 276.0 | 100.0\% | 100.0\% | 100.0\% | 276.0 | 100.0\% | 100.0\% | 100.0\% |
| 264.0 | 100.0\% | 100.0\% | 100.0\% | 264.0 | 100.0\% | 100.0\% | 100.0\% |
| 252.0 | 99.9\% | 100.0\% | 100.0\% | 252.0 | 99.9\% | 100.0\% | 100.0\% |
| 240.0 | 99.9\% | 100.0\% | 100.0\% | 240.0 | 99.9\% | 100.0\% | 100.0\% |
| 228.0 | 99.9\% | 100.0\% | 100.0\% | 228.0 | 99.9\% | 100.0\% | 100.0\% |
| 216.0 | 99.8\% | 100.0\% | 100.0\% | 216.0 | 99.8\% | 100.0\% | 100.0\% |
| 204.0 | 99.8\% | 100.0\% | 100.0\% | 204.0 | 99.8\% | 100.0\% | 100.0\% |
| 192.0 | 99.7\% | 100.0\% | 100.0\% | 192.0 | 99.7\% | 100.0\% | 100.0\% |
| 180.0 | 99.5\% | 99.9\% | 100.0\% | 180.0 | 99.5\% | 99.9\% | 100.0\% |
| 168.0 | 99.3\% | 99.5\% | 100.0\% | 168.0 | 99.3\% | 99.5\% | 100.0\% |
| 156.0 | 98.8\% | 99.4\% | 100.0\% | 156.0 | 98.8\% | 99.4\% | 100.0\% |
| 144.0 | 98.2\% | 99.3\% | 100.0\% | 144.0 | 98.2\% | 99.3\% | 100.0\% |
| 132.0 | 97.5\% | 99.1\% | 100.0\% | 132.0 | 97.5\% | 99.1\% | 100.0\% |
| 120.0 | 96.4\% | 98.8\% | 100.0\% | 120.0 | 96.4\% | 98.8\% | 100.0\% |
| 108.0 | 95.1\% | 98.3\% | 100.0\% | 108.0 | 95.1\% | 98.3\% | 100.0\% |
| 96.0 | 93.2\% | 97.7\% | 100.0\% | 96.0 | 93.2\% | 97.7\% | 100.0\% |
| 84.0 | 90.8\% | 96.7\% | 100.0\% | 84.0 | 90.8\% | 96.7\% | 100.0\% |
| 72.0 | 87.7\% | 95.2\% | 100.0\% | 72.0 | 87.7\% | 95.2\% | 100.0\% |
| 60.0 | 83.5\% | 93.1\% | 100.0\% | 60.0 | 83.5\% | 93.1\% | 100.0\% |
| 48.0 | 77.3\% | 89.9\% | 100.0\% | 48.0 | 77.3\% | 89.9\% | 100.0\% |
| 36.0 | 68.7\% | 83.7\% | 99.8\% | 36.0 | 68.7\% | 83.7\% | 99.8\% |
| 24.0 | 47.4\% | 66.9\% | 99.2\% | 24.0 | 47.4\% | 66.9\% | 99.2\% |
| 12.0 | 15.8\% | 38.2\% | 92.2\% | 12.0 | 15.8\% | 38.2\% | 92.2\% |

Riverside Community College District
Appendix B - Workers Compensation Exhibits


Developed Limited Paid Losses and Limited Reported Incurred Losses
I. Developed Limited Paid Losses

| Claim Period (1) | Months of Development 6/30/10 <br> (2) | Limited Paid Losses 6/30/10 (3) | Percent Losses Paid (4) | Developed Limited Paid Losses (3)/(4) (5) |
| :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 276 | \$0 | 100.0\% | \$0 |
| 1988/89 | 264 | 0 | 100.0\% | 0 |
| 1989/90 | 252 | 0 | 99.9\% | 0 |
| 1990/91 | 240 | 0 | 99.9\% | 0 |
| 1991/92 | 228 | 0 | 99.9\% | 0 |
| 1992/93 | 216 | 0 | 99.8\% | 0 |
| 1993/94 | 204 | 0 | 99.8\% | 0 |
| 1994/95 | 192 | 0 | 99.7\% | 0 |
| 1995/96 | 180 | 0 | 99.5\% | 0 |
| 1996/97 | 168 | 0 | 99.3\% | 0 |
| 1997/98 | 156 | 529,248 | 98.8\% | 535,676 |
| 1998/99 | 144 | 264,391 | 98.2\% | 269,238 |
| 1999/00 | 132 | 703,903 | 97.5\% | 721,951 |
| 2000/01 | 120 | 238,145 | 96.4\% | 247,039 |
| 2001/02 | 108 | 663,673 | 95.1\% | 697,869 |
| 2002/03 | 96 | 380,173 | 93.2\% | 407,911 |
| 2003/04 | 84 | 601,679 | 90.8\% | 637,311 |
| 2004/05 | 72 | 473,906 | 87.7\% | 540,372 |
| 2005/06 | 60 | 710,698 | 83.5\% | 851,135 |
| 2006/07 | 48 | 263,096 | 77.3\% | 340,356 |
| 2007/08 | 36 | 304,762 | 68.7\% | 443,613 |
| 2008/09 | 24 | 92,290 | 47.4\% | 194,704 |
| 2009/10 | 12 | 182,954 | 15.8\% | 1,157,935 |

Developed Limited Paid Losses and Limited Reported Incurred Losses
II. Developed Limited Reported Incurred Losses

| Claim Period (1) | Months of Development 6/30/10 <br> (2) | Limited Reported Incurred Losses 6/30/10 <br> (3) | Percent <br> Losses <br> Reported <br> (4) | Developed Limited Reported Incurred Losses (3)/(4) (5) |
| :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 276 | \$0 | 100.0\% | \$0 |
| 1988/89 | 264 | 0 | 100.0\% | 0 |
| 1989/90 | 252 | 0 | 100.0\% | 0 |
| 1990/91 | 240 | 0 | 100.0\% | 0 |
| 1991/92 | 228 | 0 | 100.0\% | 0 |
| 1992/93 | 216 | 0 | 100.0\% | 0 |
| 1993/94 | 204 | 0 | 100.0\% | 0 |
| 1994/95 | 192 | 0 | 100.0\% | 0 |
| 1995/96 | 180 | 0 | 99.9\% | 0 |
| 1996/97 | 168 | 0 | 99.5\% | 0 |
| 1997/98 | 156 | 594,550 | 99.4\% | 598,139 |
| 1998/99 | 144 | 342,577 | 99.3\% | 344,992 |
| 1999/00 | 132 | 743,104 | 99.1\% | 749,853 |
| 2000/01 | 120 | 307,156 | 98.8\% | 310,887 |
| 2001/02 | 108 | 742,808 | 98.3\% | 755,654 |
| 2002/03 | 96 | 403,295 | 97.7\% | 412,789 |
| 2003/04 | 84 | 615,482 | 96.7\% | 627,954 |
| 2004/05 | 72 | 614,740 | 95.2\% | 645,735 |
| 2005/06 | 60 | 811,628 | 93.1\% | 871,781 |
| 2006/07 | 48 | 337,935 | 89.9\% | 375,901 |
| 2007/08 | 36 | 445,599 | 83.7\% | 532,377 |
| 2008/09 | 24 | 170,213 | 66.9\% | 254,429 |
| 2009/10 | 12 | 566,453 | 38.2\% | 1,482,861 |

Footnotes:
Sections I and II, (3) are from Exhibit WC-1

Sections I and II, (4) are from Exhibit WC-2.
The claim(s) indicated by a "*" have been limited in development:
(a) through (g) was provided by York.

| Claim <br> Number <br> (a) | Date of Loss (b) | Claim Period (c) | Specific Self-Insured Retention <br> (d) | Limited <br> Paid Losses 6/30/10 <br> (e) | Limited <br> Case <br> Reserves 6/30/10 <br> (f) | Limited Reported Incurred Losses 6/30/10 <br> (g) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0633000042 | 4/14/2006 | 2005/06 | \$350,000 | 224,310 | \$45,440 | 269,750 |
| 0433000034 | 12/1/2003 | 2003/04 | 250,000 | 250,000 * | 0 | 250,000 * |
| 0533000031 | 3/2/2005 | 2004/05 | 350,000 | 177,889 | 49,456 | 227,344 |
| 0433000022 | 11/5/2003 | 2003/04 | 250,000 | 195,773 | 0 | 195,773 |
| 0233000026 | 11/30/2001 | 2001/02 | 250,000 | 184,617 | 0 | 184,617 |
| 9833000061 | 2/24/1998 | 1997/98 | 250,000 | 112,732 | 65,302 | 178,034 |
| 9833000007 | 8/5/1997 | 1997/98 | 250,000 | 175,665 | 0 | 175,665 |
| 0033000012 | 9/10/1999 | 1999/00 | 250,000 | 158,923 | 0 | 158,923 |
| 0533000007 | 9/3/2004 | 2004/05 | 350,000 | 108,213 | 45,801 | 154,014 |
| 9933000055 | 4/14/1999 | 1998/99 | 250,000 | 95,523 | 56,743 | 152,266 |
| 0533000043 | 5/6/2005 | 2004/05 | 350,000 | 100,945 | 45,577 | 146,522 |
| 0033000048 | 4/26/2000 | 1999/00 | 250,000 | 89,806 | 37,633 | 127,439 |
| 0333000046 | 4/4/2003 | 2002/03 | 250,000 | 116,018 | 0 | 116,018 |
| 0233000031 | 1/23/2002 | 2001/02 | 250,000 | 66,342 | 40,379 | 106,721 |
| 0233000029 | 11/15/2001 | 2001/02 | 250,000 | 67,373 | 38,755 | 106,128 |
| 0133000036 | 4/27/2001 | 2000/01 | 250,000 | 45,874 | 59,940 | 105,814 |
| 0633000012 | 9/20/2005 | 2005/06 | 350,000 | 102,081 | 0 | 102,081 |
| 0733000059 | 6/4/2007 | 2006/07 | 350,000 | 47,280 | 53,331 | 100,611 |

## Riverside Community College District

Appendix B - Workers Compensation Exhibits

| Claim Period (1) | Months of Development 6/30/10 <br> (2) | Percent <br> Losses <br> Paid <br> (3) | Percent <br> Losses Reported <br> (4) | Percent <br> Losses Reserved 6/30/10 <br> ((4)-(3))/ (100.0\%-(3)) (5) | Limited <br> Paid Losses 6/30/10 <br> (6) | Limited Case Reserves 6/30/10 (7) | Developed Limited Case Reserves (6)+(7)/(5) (8) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 276 | 100.0\% | 100.0\% | 100.0\% | \$0 | \$0 | \$0 |
| 1988/89 | 264 | 100.0\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1989/90 | 252 | 99.9\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1990/91 | 240 | 99.9\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1991/92 | 228 | 99.9\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1992/93 | 216 | 99.8\% | 100.0\% | 99.8\% | 0 | 0 | 0 |
| 1993/94 | 204 | 99.8\% | 100.0\% | 99.3\% | 0 | 0 | 0 |
| 1994/95 | 192 | 99.7\% | 100.0\% | 96.7\% | 0 | 0 | 0 |
| 1995/96 | 180 | 99.5\% | 99.9\% | 84.7\% | 0 | 0 | 0 |
| 1996/97 | 168 | 99.3\% | 99.5\% | 28.6\% | 0 | 0 | 0 |
| 1997/98 | 156 | 98.8\% | 99.4\% | 50.0\% | 529,248 | 65,302 | 659,852 |
| 1998/99 | 144 | 98.2\% | 99.3\% | 61.1\% | 264,391 | 78,186 | 392,332 |
| 1999/00 | 132 | 97.5\% | 99.1\% | 64.0\% | 703,903 | 39,202 | 765,155 |
| 2000/01 | 120 | 96.4\% | 98.8\% | 66.7\% | 238,145 | 69,011 | 341,662 |
| 2001/02 | 108 | 95.1\% | 98.3\% | 65.3\% | 663,673 | 79,135 | 784,848 |
| 2002/03 | 96 | 93.2\% | 97.7\% | 66.2\% | 380,173 | 23,121 | 415,112 |
| 2003/04 | 84 | 90.8\% | 96.7\% | 64.1\% | 601,679 | 13,803 | 623,202 |
| 2004/05 | 72 | 87.7\% | 95.2\% | 61.0\% | 473,906 | 140,834 | 704,874 |
| 2005/06 | 60 | 83.5\% | 93.1\% | 58.2\% | 710,698 | 100,930 | 884,171 |
| 2006/07 | 48 | 77.3\% | 89.9\% | 55.5\% | 263,096 | 74,839 | 397,925 |
| 2007/08 | 36 | 68.7\% | 83.7\% | 47.9\% | 304,762 | 140,837 | 598,642 |
| 2008/09 | 24 | 47.4\% | 66.9\% | 37.1\% | 92,290 | 77,923 | 302,482 |
| 2009/10 | 12 | 15.8\% | 38.2\% | 26.6\% | 182,954 | 383,499 | 1,624,500 |

## Riverside Community College District

Appendix B - Workers Compensation Exhibits

|  | Preliminary Projected Ultimate Limited Losses to Claim Period 2009/10 |
| :---: | :---: | :---: | :---: | :---: |

## Riverside Community College District

Appendix B - Workers Compensation Exhibits

Preliminary Projected Ultimate Limited Losses to Claim Period 2009/10

Footnotes:
(2) and (3) are from Exhibit WC-3.
(4) is from Exhibit WC-4.
(5) is based on (2) to (4), weighted as follows:

Subject to a minimum of Exhibit WC-1, (8) and minimum 15\% of case reserves as IBNR, unless all claims are closed.

| Claim Period | Developed Limited Paid Losses | Developed Limited Reported Incurred Losses | Developed <br> Limited <br> Case <br> Reserves |
| :---: | :---: | :---: | :---: |
| to 1995/96 | 0.0\% | 0.0\% | 100.0\% |
| 1996/97 | 0.0\% | 0.0\% | 100.0\% |
| 1997/98 | 0.0\% | 0.0\% | 100.0\% |
| 1998/99 | 0.0\% | 0.0\% | 100.0\% |
| 1999/00 | 0.0\% | 0.0\% | 100.0\% |
| 2000/01 | 0.0\% | 0.0\% | 100.0\% |
| 2001/02 | 0.0\% | 0.0\% | 100.0\% |
| 2002/03 | 0.0\% | 10.0\% | 90.0\% |
| 2003/04 | 0.0\% | 20.0\% | 80.0\% |
| 2004/05 | 0.0\% | 30.0\% | 70.0\% |
| 2005/06 | 10.0\% | 40.0\% | 50.0\% |
| 2006/07 | 20.0\% | 40.0\% | 40.0\% |
| 2007/08 | 20.0\% | 40.0\% | 40.0\% |
| 2008/09 | 30.0\% | 40.0\% | 30.0\% |
| 2009/10 | 30.0\% | 40.0\% | 30.0\% |

## Riverside Community College District

Appendix B - Workers Compensation Exhibits

Bornhuetter - Ferguson Analysis
I. A-priori Loss Rate

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

|  | Limited |  |  |  | B-F | B-F <br> Ultimate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A-priori |  | Unpaid | Limited |
|  | Paid | Percent | Loss Rate |  | Losses | Paid |
| Claim | Losses | Losses | per \$100 of | Payroll | (100.0\%-(3)) | Losses |
| Period | 6/30/10 | Paid | Payroll | (000) | $\mathrm{X}(4) \times(5) \times 10$ | (2)+(6) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 2005/06 | \$710,698 | 83.5\% | \$0.59 | \$102,932 | \$100,806 | \$811,504 |
| 2006/07 | 263,096 | 77.3\% | 0.61 | 104,120 | 143,793 | 406,888 |
| 2007/08 | 304,762 | 68.7\% | 0.62 | 112,006 | 218,618 | 523,380 |
| 2008/09 | 92,290 | 47.4\% | 0.64 | 116,872 | 392,935 | 485,225 |
| 2009/10 | 182,954 | 15.8\% | 0.66 | 117,202 | 646,540 | 829,494 |

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

|  | Limited | Projected |  |  | B-F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | B-F | Ultimate |
|  | Reported |  | A-priori |  | Unreported | Limited |
|  | Incurred | Percent | Loss Rate |  | Losses | Reported |
| Claim | Losses | Losses | per \$100 of | Payroll | (100.0\%-(3)) | Losses |
| Period | 6/30/10 | Reported | Payroll | (000) | X(4)X(5)X10 | (2)+(6) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 2005/06 | \$811,628 | 93.1\% | \$0.59 | \$102,932 | \$42,155 | \$853,783 |
| 2006/07 | 337,935 | 89.9\% | 0.61 | 104,120 | 63,978 | 401,913 |
| 2007/08 | 445,599 | 83.7\% | 0.62 | 112,006 | 113,849 | 559,448 |
| 2008/09 | 170,213 | 66.9\% | 0.64 | 116,872 | 247,265 | 417,478 |
| 2009/10 | 566,453 | 38.2\% | 0.66 | 117,202 | 474,539 | 1,040,992 |

Section I, (2) is from Exhibit WC-5.

Section I, (3), Section II, (5) and Section III, (5) were provided by the District.
Section I, (5) is based on a $2.5 \%$ trend.

Section I, (7) is based on Section I, (6) and the following weights:

| Claim Period | Weight |
| :---: | :---: |
| 2005/06 | 20.0\% |
| 2006/07 | 20.0\% |
| 2007/08 | 20.0\% |
| 2008/09 | 20.0\% |
| 2009/10 | 20.0\% |
| Similar | 0.0\% |
|  | \$0.72 |

based on other California self-insured educational entities of similar characteristics.
Sections II and III, (2) are from Exhibit WC-1.
Sections II and III, (3) are from Exhibit WC-2.
Sections II and III, (4) are from Section I, (8).
Frequency Times Severity Analysis
I. Projected Ultimate Claims

| Claim Period <br> (1) | Months of Development 6/30/10 <br> (2) | Reported Claims 6/30/10 <br> (3) | Percent <br> Claims Reported <br> (4) | Projected <br> Ultimate Claims (3)/(4) (5) |
| :---: | :---: | :---: | :---: | :---: |
| 2005/06 | 60 | 60 | 100.0\% | 60 |
| 2006/07 | 48 | 60 | 100.0\% | 60 |
| 2007/08 | 36 | 67 | 99.8\% | 67 |
| 2008/09 | 24 | 55 | 99.2\% | 55 |
| 2009/10 | 12 | 49 | 92.2\% | 53 |

mency Times Severity


Section I, (3) is from Exhibit WC-1.
Section I, (4) is from Exhibit WC-2.

Section II, (2) is from Exhibit WC-5.
Section II, (3) is from Section I, (5).
Section II, (5) is based on a $5.6 \%$ trend.
Section II, (7) is based on (6) and the following weights:

| Claim <br> Period | Weight |
| :---: | :---: |
| 2005/06 | 20.0\% |
| 2006/07 | 20.0\% |
| 2007/08 | 20.0\% |
| 2008/09 | 20.0\% |
| 2009/10 | 20.0\% |

# Riverside Community College District 

Appendix B - Workers Compensation Exhibits

| Claim Period (1) | Developed Limited Paid Losses (2) | Developed Limited Reported Incurred Losses <br> (3) | Developed Limited Case Reserves (4) | B-F <br> Paid <br> Method Ultimate Losses <br> (5) | B-F <br> Reported Method Ultimate Losses <br> (6) | Frequency <br> Times Severity <br> (7) | Projected Ultimate Limited Losses (8) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | \$0 | \$0 | \$0 |  |  |  | \$0 |
| 1988/89 | 0 | 0 | 0 |  |  |  | 0 |
| 1989/90 | 0 | 0 | 0 |  |  |  | 0 |
| 1990/91 | 0 | 0 | 0 |  |  |  | 0 |
| 1991/92 | 0 | 0 | 0 |  |  |  | 0 |
| 1992/93 | 0 | 0 | 0 |  |  |  | 0 |
| 1993/94 | 0 | 0 | 0 |  |  |  | 0 |
| 1994/95 | 0 | 0 | 0 |  |  |  | 0 |
| 1995/96 | 0 | 0 | 0 |  |  |  | 0 |
| 1996/97 | 0 | 0 | 0 |  |  |  | 0 |
| 1997/98 | 535,676 | 598,139 | 659,852 |  |  |  | 659,852 |
| 1998/99 | 269,238 | 344,992 | 392,332 |  |  |  | 392,332 |
| 1999/00 | 721,951 | 749,853 | 765,155 |  |  |  | 765,155 |
| 2000/01 | 247,039 | 310,887 | 341,662 |  |  |  | 341,662 |
| 2001/02 | 697,869 | 755,654 | 784,848 |  |  |  | 781,929 |
| 2002/03 | 407,911 | 412,789 | 415,112 |  |  |  | 414,647 |
| 2003/04 | 637,311 | 627,954 | 623,202 |  |  |  | 624,627 |
| 2004/05 | 540,372 | 645,735 | 704,874 |  |  |  | 681,218 |
| 2005/06 | 851,135 | 871,781 | 884,171 | 811,504 | 853,783 | 640,419 | 875,911 |
| 2006/07 | 340,356 | 375,901 | 397,925 | 406,888 | 401,913 | 676,122 | 377,601 |
| 2007/08 | 443,613 | 532,377 | 598,642 | 523,380 | 559,448 | 797,095 | 532,254 |
| 2008/09 | 194,704 | 254,429 | 302,482 | 485,225 | 417,478 | 690,810 | 296,284 |
| 2009/10 | 1,157,935 | 1,482,861 | 1,624,500 | 829,494 | 1,040,992 | 702,802 | 1,227,156 |

## Riverside Community College District

Appendix B - Workers Compensation Exhibits

Footnotes:
(2) and (3) are from Exhibit WC-3.
(4) is from Exhibit WC-4.
(5) and (6) are from Exhibit WC-6.
(7) is from Exhibit WC-7
(8) is based on (2) to (7), weighted as follows:

Subject to a minimum of Exhibit WC-1, (8) and minimum 15\% of case reserves as IBNR, unless all claims are closed.
Claim
Period

| Developed |
| :---: |
| Limited |
| Paid |
| Losses |

.--------------------1
$0.0 \%$
$0.0 \%$
$0.0 \%$
$0.0 \%$
$0.0 \%$
$0.0 \%$
$0.0 \%$
$0.0 \%$
$0.0 \%$
$0.0 \%$
$10.0 \%$
$20.0 \%$
$30.0 \%$
$20.0 \%$
$20.0 \%$

| Developed |  | B-F |
| :---: | :---: | :---: |
| Limited | Developed | Paid |
| Reported | Limited | Method |
| Incurred | Case | Ultimate |
| Losses | Reserves | Losses |
| 0.0\% | 100.0\% | 0.0\% |
| 0.0\% | 100.0\% | 0.0\% |
| 0.0\% | 100.0\% | 0.0\% |
| 0.0\% | 100.0\% | 0.0\% |
| 0.0\% | 100.0\% | 0.0\% |
| 0.0\% | 100.0\% | 0.0\% |
| 10.0\% | 90.0\% | 0.0\% |
| 20.0\% | 80.0\% | 0.0\% |
| 30.0\% | 70.0\% | 0.0\% |
| 40.0\% | 60.0\% | 0.0\% |
| 40.0\% | 50.0\% | 0.0\% |
| 40.0\% | 40.0\% | 0.0\% |
| 30.0\% | 40.0\% | 0.0\% |
| 30.0\% | 30.0\% | 10.0\% |
| 20.0\% | 20.0\% | 20.0\% |


| $\begin{gathered} \text { B-F } \\ \text { Reported } \end{gathered}$ |  |
| :---: | :---: |
|  |  |
| Method | Frequency |
| Ultimate | Times |
| Losses | Severity |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 10.0\% | 0.0\% |
| 20.0\% | 0.0\% |

Projected Ultimate Limited Losses for 2010/11 and Subsequent

| Claim Period (1) | Projected <br> Ultimate Limited Losses (2) | Payroll (000) (3) | Limited Loss Rate per \$100 of Payroll (2)/(3)/10 <br> (4) | Loss Rate Trend (2010/11 $=1.000$ ) <br> (5) | Trended Limited Loss Rate per \$100 of Payroll (4) $X(5)$ (6) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2005/06 | \$875,911 | \$102,932 | \$0.85 | 1.131 | \$0.96 |
| 2006/07 | 377,601 | 104,120 | 0.36 | 1.104 | 0.40 |
| 2007/08 | 532,254 | 112,006 | 0.48 | 1.077 | 0.51 |
| 2008/09 | 296,284 | 116,872 | 0.25 | 1.051 | 0.27 |
| 2009/10 | 1,227,156 | 117,202 | 1.05 | 1.025 | 1.07 |
| Total | \$3,309,207 | \$553,133 | \$0.60 |  | \$0.64 |


(2) is from Exhibit WC-8
(3) was provided by the District
(5) is based on a $2.5 \%$ trend
(7) for $2010 / 11$ is based on (6) and the following weights

(7) for 2011/12 and subsequent are based on 2010/11 plus a $2.5 \%$ trend
(8) is based on (3) for 2009/10 and a $2 \%$ trend.
(10) is based on a $2.5 \%$ interest rate and the payout pattern in Exhibit WC-2.

Riverside Community College District
Appendix B - Workers Compensation Exhibits

(2), (3) and (4) are based on data received from Hazelrigg and compiled by RCS.
(5) is from Exhibit WC-8.

Estimated Outstanding Losses as of June 30, 2010

|  | Present Value of Estimated Outstanding Losses as of June 30, 2010 |
| :---: | :---: | :---: | :---: | :---: |

Projected Losses Paid July 1, 2010 to June 30, 2015
I. Projected Losses Paid July 1, 2010 to June 30, 2011

| Claim Period <br> (1) | Months of Development 6/30/10 <br> (2) | Percent Losses Paid (3) | Months of Development 6/30/11 <br> (4) | Percent Losses Paid (5) | Percent Outstanding Losses Paid $7 / 1 / 10$ to $6 / 30 / 11$ $((5)-(3)) /$ $(100.0 \%-(3))$ $(6)$ | Estimated Outstanding Losses 6/30/10 <br> (7) | Projected Losses Paid (6) $\mathrm{X}(7)$ (8) | Estimated Outstanding Losses 6/30/11 (7)-(8) (9) | Present <br> Value <br> Factor <br> (10) | Present <br> Value of Estimated Outstanding Losses 6/30/11 (9) $X(10)$ (11) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 276.0 | 100.0\% | 288.0 | 100.0\% | 25.0\% * | \$0 | \$0 | \$0 | 1.00 | \$0 |
| 1988/89 | 264.0 | 100.0\% | 276.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1989/90 | 252.0 | 99.9\% | 264.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 0.95 | 0 |
| 1990/91 | 240.0 | 99.9\% | 252.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1991/92 | 228.0 | 99.9\% | 240.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1992/93 | 216.0 | 99.8\% | 228.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1993/94 | 204.0 | 99.8\% | 216.0 | 99.8\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1994/95 | 192.0 | 99.7\% | 204.0 | 99.8\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1995/96 | 180.0 | 99.5\% | 192.0 | 99.7\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1996/97 | 168.0 | 99.3\% | 180.0 | 99.5\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1997/98 | 156.0 | 98.8\% | 168.0 | 99.3\% | 25.0\% * | 130,604 | 32,651 | 97,953 | 0.94 | 91,684 |
| 1998/99 | 144.0 | 98.2\% | 156.0 | 98.8\% | 25.0\% * | 127,941 | 31,985 | 95,956 | 0.94 | 90,582 |
| 1999/00 | 132.0 | 97.5\% | 144.0 | 98.2\% | 25.0\% * | 61,253 | 15,313 | 45,940 | 0.94 | 43,321 |
| 2000/01 | 120.0 | 96.4\% | 132.0 | 97.5\% | 25.0\% * | 103,517 | 25,879 | 77,638 | 0.94 | 72,902 |
| 2001/02 | 108.0 | 95.1\% | 120.0 | 96.4\% | 25.0\% * | 118,256 | 29,564 | 88,692 | 0.94 | 83,193 |
| 2002/03 | 96.0 | 93.2\% | 108.0 | 95.1\% | 25.0\% * | 34,474 | 8,619 | 25,855 | 0.93 | 24,149 |
| 2003/04 | 84.0 | 90.8\% | 96.0 | 93.2\% | 25.0\% * | 22,949 | 5,737 | 17,212 | 0.93 | 16,059 |
| 2004/05 | 72.0 | 87.7\% | 84.0 | 90.8\% | 25.0\% * | 207,312 | 51,828 | 155,484 | 0.93 | 144,600 |
| 2005/06 | 60.0 | 83.5\% | 72.0 | 87.7\% | 25.0\% * | 165,214 | 41,304 | 123,910 | 0.93 | 114,988 |
| 2006/07 | 48.0 | 77.3\% | 60.0 | 83.5\% | 25.0\% * | 114,506 | 28,627 | 85,879 | 0.93 | 79,524 |
| 2007/08 | 36.0 | 68.7\% | 48.0 | 77.3\% | 25.0\% * | 227,492 | 56,873 | 170,619 | 0.93 | 158,164 |
| 2008/09 | 24.0 | 47.4\% | 36.0 | 68.7\% | 25.0\% * | 203,995 | 50,999 | 152,996 | 0.93 | 141,827 |
| 2009/10 | 12.0 | 15.8\% | 24.0 | 47.4\% | 25.0\% * | 1,044,203 | 261,051 | 783,152 | 0.94 | 734,597 |
| 2010/11 | 0.0 | 0.0\% | 12.0 | 15.8\% | 15.8\% * | 765,094 | 120,885 | 644,209 | 0.94 | 606,845 |
| Total |  |  |  |  |  | \$3,326,810 | \$761,315 | \$2,565,495 |  | \$2,402,435 |

Projected Losses Paid July 1, 2010 to June 30, 2015
II. Projected Losses Paid July 1, 2011 to June 30, 2012

| Claim Period <br> (1) | Months of Development 6/30/11 <br> (2) | Percent <br> Losses Paid (3) | Months of Development 6/30/12 <br> (4) | Percent <br> Losses Paid (5) | Percent Outstanding Losses Paid $7 / 1 / 111$ to $6 / 3012$ $((5)-(3)) /$ $(100.0 \%-(3))$ <br> (6) | Estimated Outstanding Losses 6/30/11 <br> (7) | Projected Losses Paid (6) $X(7)$ (8) | Estimated Outstanding Losses 6/30/12 (7)-(8) (9) | Present <br> Value <br> Factor <br> (10) | Present <br> Value of Estimated Outstanding Losses 6/30/12 (9) $\times(10)$ (11) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 288.0 | 100.0\% | 300.0 | 100.0\% | 25.0\% * | \$0 | \$0 | \$0 | 1.00 | \$0 |
| 1988/89 | 276.0 | 100.0\% | 288.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1989/90 | 264.0 | 100.0\% | 276.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1990/91 | 252.0 | 99.9\% | 264.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 0.95 | 0 |
| 1991/92 | 240.0 | 99.9\% | 252.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1992/93 | 228.0 | 99.9\% | 240.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1993/94 | 216.0 | 99.8\% | 228.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1994/95 | 204.0 | 99.8\% | 216.0 | 99.8\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1995/96 | 192.0 | 99.7\% | 204.0 | 99.8\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1996/97 | 180.0 | 99.5\% | 192.0 | 99.7\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1997/98 | 168.0 | 99.3\% | 180.0 | 99.5\% | 25.0\% * | 97,953 | 24,488 | 73,465 | 0.94 | 68,763 |
| 1998/99 | 156.0 | 98.8\% | 168.0 | 99.3\% | 25.0\% * | 95,956 | 23,989 | 71,967 | 0.94 | 67,361 |
| 1999/00 | 144.0 | 98.2\% | 156.0 | 98.8\% | 25.0\% * | 45,940 | 11,485 | 34,455 | 0.94 | 32,526 |
| 2000/01 | 132.0 | 97.5\% | 144.0 | 98.2\% | 25.0\% * | 77,638 | 19,410 | 58,228 | 0.94 | 54,909 |
| 2001/02 | 120.0 | 96.4\% | 132.0 | 97.5\% | 25.0\% * | 88,692 | 22,173 | 66,519 | 0.94 | 62,461 |
| 2002/03 | 108.0 | 95.1\% | 120.0 | 96.4\% | 25.0\% * | 25,855 | 6,464 | 19,391 | 0.94 | 18,189 |
| 2003/04 | 96.0 | 93.2\% | 108.0 | 95.1\% | 25.0\% * | 17,212 | 4,303 | 12,909 | 0.93 | 12,057 |
| 2004/05 | 84.0 | 90.8\% | 96.0 | 93.2\% | 25.0\% * | 155,484 | 38,871 | 116,613 | 0.93 | 108,800 |
| 2005/06 | 72.0 | 87.7\% | 84.0 | 90.8\% | 25.0\% * | 123,910 | 30,978 | 92,932 | 0.93 | 86,427 |
| 2006/07 | 60.0 | 83.5\% | 72.0 | 87.7\% | 25.0\% * | 85,879 | 21,470 | 64,409 | 0.93 | 59,772 |
| 2007/08 | 48.0 | 77.3\% | 60.0 | 83.5\% | 25.0\% * | 170,619 | 42,655 | 127,964 | 0.93 | 118,495 |
| 2008/09 | 36.0 | 68.7\% | 48.0 | 77.3\% | 25.0\% * | 152,996 | 38,249 | 114,747 | 0.93 | 106,370 |
| 2009/10 | 24.0 | 47.4\% | 36.0 | 68.7\% | 25.0\% * | 783,152 | 195,788 | 587,364 | 0.93 | 544,486 |
| 2010/11 | 12.0 | 15.8\% | 24.0 | 47.4\% | 25.0\% * | 644,209 | 161,052 | 483,157 | 0.94 | 453,201 |
| 2011/12 | 0.0 | 0.0\% | 12.0 | 15.8\% | 15.8\% * | 804,784 | 127,156 | 677,628 | 0.94 | 638,326 |
| Total |  |  |  |  |  | \$3,370,279 | \$768,531 | \$2,601,748 |  | \$2,432,143 |

Projected Losses Paid July 1, 2010 to June 30, 2015
III. Projected Losses Paid July 1, 2012 to June 30, 2013

| Claim Period <br> (1) | Months of Development 6/30/12 <br> (2) | Percent <br> Losses Paid (3) | Months of Development 6/30/13 <br> (4) | Percent <br> Losses Paid (5) | Percent Outstanding Losses Paid $7 / 1 / 12$ to $6 / 30 / 13$ $((5)-(3)) /$ $(100.0 \%-(3))$ <br> (6) | Estimated Outstanding Losses 6/30/12 <br> (7) | Projected Losses Paid (6) $X(7)$ (8) | Estimated Outstanding Losses 6/30/13 (7)-(8) (9) | Present <br> Value <br> Factor <br> (10) | Present <br> Value of Estimated Outstanding Losses 6/30/13 (9) $\times(10)$ (11) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 300.0 | 100.0\% | 312.0 | 100.0\% | 25.0\% * | \$0 | \$0 | \$0 | 1.00 | \$0 |
| 1988/89 | 288.0 | 100.0\% | 300.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1989/90 | 276.0 | 100.0\% | 288.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1990/91 | 264.0 | 100.0\% | 276.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1991/92 | 252.0 | 99.9\% | 264.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 0.95 | 0 |
| 1992/93 | 240.0 | 99.9\% | 252.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1993/94 | 228.0 | 99.9\% | 240.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1994/95 | 216.0 | 99.8\% | 228.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1995/96 | 204.0 | 99.8\% | 216.0 | 99.8\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1996/97 | 192.0 | 99.7\% | 204.0 | 99.8\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1997/98 | 180.0 | 99.5\% | 192.0 | 99.7\% | 25.0\% * | 73,465 | 18,366 | 55,099 | 0.94 | 51,573 |
| 1998/99 | 168.0 | 99.3\% | 180.0 | 99.5\% | 25.0\% * | 71,967 | 17,992 | 53,975 | 0.94 | 50,521 |
| 1999/00 | 156.0 | 98.8\% | 168.0 | 99.3\% | 25.0\% * | 34,455 | 8,614 | 25,841 | 0.94 | 24,187 |
| 2000/01 | 144.0 | 98.2\% | 156.0 | 98.8\% | 25.0\% * | 58,228 | 14,557 | 43,671 | 0.94 | 41,225 |
| 2001/02 | 132.0 | 97.5\% | 144.0 | 98.2\% | 25.0\% * | 66,519 | 16,630 | 49,889 | 0.94 | 47,045 |
| 2002/03 | 120.0 | 96.4\% | 132.0 | 97.5\% | 25.0\% * | 19,391 | 4,848 | 14,543 | 0.94 | 13,656 |
| 2003/04 | 108.0 | 95.1\% | 120.0 | 96.4\% | 25.0\% * | 12,909 | 3,227 | 9,682 | 0.94 | 9,082 |
| 2004/05 | 96.0 | 93.2\% | 108.0 | 95.1\% | 25.0\% * | 116,613 | 29,153 | 87,460 | 0.93 | 81,688 |
| 2005/06 | 84.0 | 90.8\% | 96.0 | 93.2\% | 25.0\% * | 92,932 | 23,233 | 69,699 | 0.93 | 65,029 |
| 2006/07 | 72.0 | 87.7\% | 84.0 | 90.8\% | 25.0\% * | 64,409 | 16,102 | 48,307 | 0.93 | 44,926 |
| 2007/08 | 60.0 | 83.5\% | 72.0 | 87.7\% | 25.0\% * | 127,964 | 31,991 | 95,973 | 0.93 | 89,063 |
| 2008/09 | 48.0 | 77.3\% | 60.0 | 83.5\% | 25.0\% * | 114,747 | 28,687 | 86,060 | 0.93 | 79,692 |
| 2009/10 | 36.0 | 68.7\% | 48.0 | 77.3\% | 25.0\% * | 587,364 | 146,841 | 440,523 | 0.93 | 408,365 |
| 2010/11 | 24.0 | 47.4\% | 36.0 | 68.7\% | 25.0\% * | 483,157 | 120,789 | 362,368 | 0.93 | 335,915 |
| 2011/12 | 12.0 | 15.8\% | 24.0 | 47.4\% | 25.0\% * | 677,628 | 169,407 | 508,221 | 0.94 | 476,711 |
| 2012/13 | 0.0 | 0.0\% | 12.0 | 15.8\% | 15.8\% * | 833,317 | 131,664 | 701,653 | 0.94 | 660,957 |
| Total |  |  |  |  |  | \$3,435,065 | \$782,101 | \$2,652,964 |  | \$2,479,635 |

IV. Projected Losses Paid July 1, 2013 to June 30, 2014

| Claim Period (1) | Months of Development 6/30/13 <br> (2) | Percent <br> Losses Paid (3) | Months of Development 6/30/14 <br> (4) | Percent Losses Paid (5) | Percent Outstanding Losses Paid 7/1/13 to 6/30/14 ((5)-(3))/ (100.0\%-(3)) (6) | Estimated Outstanding Losses 6/30/13 <br> (7) | Projected Losses Paid (6) $\mathrm{X}(7)$ (8) | Estimated Outstanding Losses 6/30/14 (7)-(8) (9) | Present <br> Value <br> Factor <br> (10) | Present <br> Value of Estimated Outstanding Losses 6/30/14 (9) $\times(10)$ (11) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 312.0 | 100.0\% | 324.0 | 100.0\% | 25.0\% * | \$0 | \$0 | \$0 | 1.00 | \$0 |
| 1988/89 | 300.0 | 100.0\% | 312.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1989/90 | 288.0 | 100.0\% | 300.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1990/91 | 276.0 | 100.0\% | 288.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1991/92 | 264.0 | 100.0\% | 276.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 1.00 | 0 |
| 1992/93 | 252.0 | 99.9\% | 264.0 | 100.0\% | 25.0\% * | 0 | 0 | 0 | 0.95 | 0 |
| 1993/94 | 240.0 | 99.9\% | 252.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1994/95 | 228.0 | 99.9\% | 240.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1995/96 | 216.0 | 99.8\% | 228.0 | 99.9\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1996/97 | 204.0 | 99.8\% | 216.0 | 99.8\% | 25.0\% * | 0 | 0 | 0 | 0.94 | 0 |
| 1997/98 | 192.0 | 99.7\% | 204.0 | 99.8\% | 25.0\% * | 55,099 | 13,775 | 41,324 | 0.94 | 38,721 |
| 1998/99 | 180.0 | 99.5\% | 192.0 | 99.7\% | 25.0\% * | 53,975 | 13,494 | 40,481 | 0.94 | 37,890 |
| 1999/00 | 168.0 | 99.3\% | 180.0 | 99.5\% | 25.0\% * | 25,841 | 6,460 | 19,381 | 0.94 | 18,141 |
| 2000/01 | 156.0 | 98.8\% | 168.0 | 99.3\% | 25.0\% * | 43,671 | 10,918 | 32,753 | 0.94 | 30,657 |
| 2001/02 | 144.0 | 98.2\% | 156.0 | 98.8\% | 25.0\% * | 49,889 | 12,472 | 37,417 | 0.94 | 35,322 |
| 2002/03 | 132.0 | 97.5\% | 144.0 | 98.2\% | 25.0\% * | 14,543 | 3,636 | 10,907 | 0.94 | 10,285 |
| 2003/04 | 120.0 | 96.4\% | 132.0 | 97.5\% | 25.0\% * | 9,682 | 2,421 | 7,261 | 0.94 | 6,818 |
| 2004/05 | 108.0 | 95.1\% | 120.0 | 96.4\% | 25.0\% * | 87,460 | 21,865 | 65,595 | 0.94 | 61,528 |
| 2005/06 | 96.0 | 93.2\% | 108.0 | 95.1\% | 25.0\% * | 69,699 | 17,425 | 52,274 | 0.93 | 48,824 |
| 2006/07 | 84.0 | 90.8\% | 96.0 | 93.2\% | 25.0\% * | 48,307 | 12,077 | 36,230 | 0.93 | 33,803 |
| 2007/08 | 72.0 | 87.7\% | 84.0 | 90.8\% | 25.0\% * | 95,973 | 23,993 | 71,980 | 0.93 | 66,941 |
| 2008/09 | 60.0 | 83.5\% | 72.0 | 87.7\% | 25.0\% * | 86,060 | 21,515 | 64,545 | 0.93 | 59,898 |
| 2009/10 | 48.0 | 77.3\% | 60.0 | 83.5\% | 25.0\% * | 440,523 | 110,131 | 330,392 | 0.93 | 305,943 |
| 2010/11 | 36.0 | 68.7\% | 48.0 | 77.3\% | 25.0\% * | 362,368 | 90,592 | 271,776 | 0.93 | 251,936 |
| 2011/12 | 24.0 | 47.4\% | 36.0 | 68.7\% | 25.0\% * | 508,221 | 127,055 | 381,166 | 0.93 | 353,341 |
| 2012/13 | 12.0 | 15.8\% | 24.0 | 47.4\% | 25.0\% * | 701,653 | 175,413 | 526,240 | 0.94 | 493,613 |
| 2013/14 | 0.0 | 0.0\% | 12.0 | 15.8\% | 15.8\% * | 875,356 | 138,306 | 737,050 | 0.94 | 694,301 |
| Total |  |  |  |  |  | \$3,528,320 | \$801,548 | \$2,726,772 |  | \$2,547,962 |

Projected Losses Paid July 1, 2010 to June 30, 2015

Projected Losses Paid July 1, 2010 to June 30, 2015
V. Projected Losses Paid July 1, 2014 to June 30, 2015


## Projected Losses Paid July 1, 2010 to June 30, 2015

Footnotes:
Sections I, II, III, IV and V, (3) and (5) are from Exhibit WC-2.
Section I, (7) to 2009/10 is from Exhibit WC-10. The amount for 2010/11 is from Exhibit WC-9
Section II, (7) to 2010/11 is from Section I, (9). The amount for 2011/12 is from Exhibit WC-9
Section III, (7) to 2011/12 is from Section II, (9). The amount for 2012/13 is from Exhibit WC-9
Section IV, (7) to 2012/13 is from Section III, (9). The amount for 2013/14 is from Exhibit WC-9.
Section V, (7) to 2013/14 is from Section IV, (9). The amount for 2014/15 is from Exhibit WC-9.
Sections I, II, III, IV and V, (10) are based on a $2.5 \%$ interest rate and the payout pattern in Exhibit WC-2.

*     - Limited to a maximum of $25 \%$ per actuarial judgment.


## Appendix C

LIABILITY EXHIBITS
(GENERAL AND AUTOMOBILE COMBINED)

Riverside Community College District
Appendix C - Liability (General and Automobile Combined) Exhibits

Exhibit LI-1


Amounts are gross of recoveries.
(6), (7) and (8) are net of specific excess reinsurance, but gross of aggregate reinsurance.

| Summary of Percent Losses Paid, Losses Reported and Claims Reported |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Months of Development <br> (1) | Percent | Percent | Percent |  | Percent | Percent | Percent |
|  | Losses | Losses | Claims | Months of | Losses | Losses | Claims |
|  | Paid | Reported | Reported | Development | Paid | Reported | Reported |
|  | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 360.0 | 100.0\% | 100.0\% | 100.0\% | 360.0 | 100.0\% | 100.0\% | 100.0\% |
| 348.0 | 100.0\% | 100.0\% | 100.0\% | 348.0 | 100.0\% | 100.0\% | 100.0\% |
| 336.0 | 100.0\% | 100.0\% | 100.0\% | 336.0 | 100.0\% | 100.0\% | 100.0\% |
| 324.0 | 100.0\% | 100.0\% | 100.0\% | 324.0 | 100.0\% | 100.0\% | 100.0\% |
| 312.0 | 100.0\% | 100.0\% | 100.0\% | 312.0 | 100.0\% | 100.0\% | 100.0\% |
| 300.0 | 100.0\% | 100.0\% | 100.0\% | 300.0 | 100.0\% | 100.0\% | 100.0\% |
| 288.0 | 100.0\% | 100.0\% | 100.0\% | 288.0 | 100.0\% | 100.0\% | 100.0\% |
| 276.0 | 100.0\% | 100.0\% | 100.0\% | 276.0 | 100.0\% | 100.0\% | 100.0\% |
| 264.0 | 100.0\% | 100.0\% | 100.0\% | 264.0 | 100.0\% | 100.0\% | 100.0\% |
| 252.0 | 100.0\% | 100.0\% | 100.0\% | 252.0 | 100.0\% | 100.0\% | 100.0\% |
| 240.0 | 100.0\% | 100.0\% | 100.0\% | 240.0 | 100.0\% | 100.0\% | 100.0\% |
| 228.0 | 100.0\% | 100.0\% | 100.0\% | 228.0 | 100.0\% | 100.0\% | 100.0\% |
| 216.0 | 100.0\% | 100.0\% | 100.0\% | 216.0 | 100.0\% | 100.0\% | 100.0\% |
| 204.0 | 100.0\% | 100.0\% | 100.0\% | 204.0 | 100.0\% | 100.0\% | 100.0\% |
| 192.0 | 100.0\% | 100.0\% | 100.0\% | 192.0 | 100.0\% | 100.0\% | 100.0\% |
| 180.0 | 99.9\% | 100.0\% | 100.0\% | 180.0 | 99.9\% | 100.0\% | 100.0\% |
| 168.0 | 99.9\% | 100.0\% | 100.0\% | 168.0 | 99.9\% | 100.0\% | 100.0\% |
| 156.0 | 99.8\% | 100.0\% | 100.0\% | 156.0 | 99.8\% | 100.0\% | 100.0\% |
| 144.0 | 99.6\% | 100.0\% | 100.0\% | 144.0 | 99.6\% | 100.0\% | 100.0\% |
| 132.0 | 99.3\% | 100.0\% | 100.0\% | 132.0 | 99.3\% | 100.0\% | 100.0\% |
| 120.0 | 98.9\% | 100.0\% | 100.0\% | 120.0 | 98.9\% | 100.0\% | 100.0\% |
| 108.0 | 98.2\% | 99.9\% | 100.0\% | 108.0 | 98.2\% | 99.9\% | 100.0\% |
| 96.0 | 97.4\% | 99.7\% | 100.0\% | 96.0 | 97.4\% | 99.7\% | 100.0\% |
| 84.0 | 96.1\% | 99.3\% | 100.0\% | 84.0 | 96.1\% | 99.3\% | 100.0\% |
| 72.0 | 94.7\% | 98.4\% | 99.9\% | 72.0 | 94.7\% | 98.4\% | 99.9\% |
| 60.0 | 92.4\% | 96.7\% | 99.7\% | 60.0 | 92.4\% | 96.7\% | 99.7\% |
| 48.0 | 84.7\% | 94.2\% | 99.3\% | 48.0 | 84.7\% | 94.2\% | 99.3\% |
| 36.0 | 64.2\% | 86.6\% | 98.4\% | 36.0 | 64.2\% | 86.6\% | 98.4\% |
| 24.0 | 23.1\% | 66.8\% | 96.2\% | 24.0 | 23.1\% | 66.8\% | 96.2\% |
| 12.0 | 4.2\% | 32.6\% | 78.6\% | 12.0 | 4.2\% | 32.6\% | 78.6\% |


(2), (3) and (4) are based on other similar programs with which we are familiar.

## Riverside Community College District

Appendix C - Liability (General and Automobile Combined) Exhibits

## Developed Limited Paid Losses and Limited Reported Incurred Losses

I. Developed Limited Paid Losses

| Claim <br> Period <br> (1) | Months of Development 6/30/10 <br> (2) | Limited Paid Losses 6/30/10 <br> (3) | Percent Losses Paid (4) | Developed Limited Paid Losses (3)/(4) (5) |
| :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 276 | \$0 | 100.0\% | \$0 |
| 1988/89 | 264 | 0 | 100.0\% | 0 |
| 1989/90 | 252 | 0 | 100.0\% | 0 |
| 1990/91 | 240 | 0 | 100.0\% | 0 |
| 1991/92 | 228 | 0 | 100.0\% | 0 |
| 1992/93 | 216 | 0 | 100.0\% | 0 |
| 1993/94 | 204 | 0 | 100.0\% | 0 |
| 1994/95 | 192 | 0 | 100.0\% | 0 |
| 1995/96 | 180 | 0 | 99.9\% | 0 |
| 1996/97 | 168 | 0 | 99.9\% | 0 |
| 1997/98 | 156 | 0 | 99.8\% | 0 |
| 1998/99 | 144 | 0 | 99.6\% | 0 |
| 1999/00 | 132 | 0 | 99.3\% | 0 |
| 2000/01 | 120 | 0 | 98.9\% | 0 |
| 2001/02 | 108 | 0 | 98.2\% | 0 |
| 2002/03 | 96 | 0 | 97.4\% | 0 |
| 2003/04 | 84 | 0 | 96.1\% | 0 |
| 2004/05 | 72 | 223,183 | 94.7\% | 235,674 |
| 2005/06 | 60 | 0 | 92.4\% | 0 |
| 2006/07 | 48 | 8,712 | 84.7\% | 10,286 |
| 2007/08 | 36 | 209,379 | 64.2\% | 270,372 |
| 2008/09 | 24 | 59,888 | 23.1\% | 114,290 |
| 2009/10 | 12 | 9,765 | 4.2\% | 212,333 |

## Riverside Community College District

Appendix C - Liability (General and Automobile Combined) Exhibits

Developed Limited Paid Losses and Limited Reported Incurred Losses
II. Developed Limited Reported Incurred Losses

| Claim Period (1) | Months of Development 6/30/10 <br> (2) | Limited Reported Incurred Losses 6/30/10 <br> (3) | Percent <br> Losses Reported <br> (4) | Developed Limited Reported Incurred Losses (3)/(4) (5) |
| :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 276 | \$0 | 100.0\% | \$0 |
| 1988/89 | 264 | 0 | 100.0\% | 0 |
| 1989/90 | 252 | 0 | 100.0\% | 0 |
| 1990/91 | 240 | 0 | 100.0\% | 0 |
| 1991/92 | 228 | 0 | 100.0\% | 0 |
| 1992/93 | 216 | 0 | 100.0\% | 0 |
| 1993/94 | 204 | 0 | 100.0\% | 0 |
| 1994/95 | 192 | 0 | 100.0\% | 0 |
| 1995/96 | 180 | 0 | 100.0\% | 0 |
| 1996/97 | 168 | 0 | 100.0\% | 0 |
| 1997/98 | 156 | 0 | 100.0\% | 0 |
| 1998/99 | 144 | 0 | 100.0\% | 0 |
| 1999/00 | 132 | 0 | 100.0\% | 0 |
| 2000/01 | 120 | 0 | 100.0\% | 0 |
| 2001/02 | 108 | 0 | 99.9\% | 0 |
| 2002/03 | 96 | 0 | 99.7\% | 0 |
| 2003/04 | 84 | 0 | 99.3\% | 0 |
| 2004/05 | 72 | 223,183 | 98.4\% | 226,812 |
| 2005/06 | 60 | 173,154 | 96.7\% | 175,651 |
| 2006/07 | 48 | 8,712 | 94.2\% | 9,248 |
| 2007/08 | 36 | 342,689 | 86.6\% | 380,241 |
| 2008/09 | 24 | 103,301 | 66.8\% | 104,942 |
| 2009/10 | 12 | 186,718 | 32.6\% | 297,294 |

Footnotes:

Sections I and II, (3) are from Exhibit LI-1.
Sections I and II, (4) are from Exhibit LI-2.
The claim(s) indicated by a "*" have been limited in development:
(a) through (g) was provided by the District.

| Claim <br> Number <br> (a) | Date of Loss (b) | Claim Period <br> (c) | Specific Self-Insured Retention (d) | Limited <br> Paid Losses 6/30/10 <br> (e) | Limited <br> Case <br> Reserves 6/30/10 <br> (f) | Limited Reported Incurred Losses 6/30/10 <br> (g) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 02/23/06 | 2005/06 | \$100,000 | \$0 | \$100,000 * | \$100,000 * |
|  | 7/5/05 | 2005/06 | 100,000 | 0 | 58,766 * | 58,766 |
|  | 5/29/08 | 2007/08 | 100,000 | 100,000 * | 0 | 100,000 * |
|  | 3/19/09 | 2008/09 | 100,000 | 56,587 * | 43,413 * | 100,000 * |
|  | 9/1/09 | 2009/10 | 100,000 | 5,047 * | 94,953 * | 100,000 * |
|  | 8/26/09 | 2009/10 | 100,000 | 0 | 55,000 * | 55,000 * |


| Developed Limited Case Reserves |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Claim Period (1) | Months of Development 6/30/10 <br> (2) | Percent <br> Losses Paid (3) | Percent <br> Losses Reported <br> (4) | Percent Losses Reserved $6 / 30 / 10$ $((4)-(3)) /$ $(100.0 \%-(3))$ $(5)$ | Limited <br> Paid <br> Losses <br> 6/30/10 <br> (6) | Limited <br> Case <br> Reserves 6/30/10 <br> (7) | Developed Limited Case Reserves (6) $+(7) /(5)$ (8) |
| 1987/88 | 276 | 100.0\% | 100.0\% | 100.0\% | \$0 | \$0 | \$0 |
| 1988/89 | 264 | 100.0\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1989/90 | 252 | 100.0\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1990/91 | 240 | 100.0\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1991/92 | 228 | 100.0\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1992/93 | 216 | 100.0\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1993/94 | 204 | 100.0\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1994/95 | 192 | 100.0\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1995/96 | 180 | 99.9\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1996/97 | 168 | 99.9\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1997/98 | 156 | 99.8\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1998/99 | 144 | 99.6\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 1999/00 | 132 | 99.3\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 2000/01 | 120 | 98.9\% | 100.0\% | 100.0\% | 0 | 0 | 0 |
| 2001/02 | 108 | 98.2\% | 99.9\% | 94.4\% | 0 | 0 | 0 |
| 2002/03 | 96 | 97.4\% | 99.7\% | 88.5\% | 0 | 0 | 0 |
| 2003/04 | 84 | 96.1\% | 99.3\% | 82.1\% | 0 | 0 | 0 |
| 2004/05 | 72 | 94.7\% | 98.4\% | 69.8\% | 223,183 | 0 | 223,183 |
| 2005/06 | 60 | 92.4\% | 96.7\% | 56.6\% | 0 | 173,154 | 225,431 |
| 2006/07 | 48 | 84.7\% | 94.2\% | 62.1\% | 8,712 | 0 | 8,712 |
| 2007/08 | 36 | 64.2\% | 86.6\% | 62.6\% | 209,379 | 133,310 | 422,437 |
| 2008/09 | 24 | 23.1\% | 66.8\% | 56.8\% | 59,888 | 43,413 | 103,301 |
| 2009/10 | 12 | 4.2\% | 32.6\% | 29.6\% | 9,765 | 176,953 | 295,795 |


| Preliminary Projected Ultimate Limited Losses to 2009/10 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Claim Period (1) | Developed Limited Paid Losses <br> (2) | Developed Limited Reported Incurred Losses (3) | Developed Limited Case Reserves (4) | Preliminary Projected Ultimate Limited Losses (5) |
| 1987/88 | \$0 | \$0 | \$0 | \$0 |
| 1988/89 | 0 | 0 | 0 | 0 |
| 1989/90 | 0 | 0 | 0 | 0 |
| 1990/91 | 0 | 0 | 0 | 0 |
| 1991/92 | 0 | 0 | 0 | 0 |
| 1992/93 | 0 | 0 | 0 | 0 |
| 1993/94 | 0 | 0 | 0 | 0 |
| 1994/95 | 0 | 0 | 0 | 0 |
| 1995/96 | 0 | 0 | 0 | 0 |
| 1996/97 | 0 | 0 | 0 | 0 |
| 1997/98 | 0 | 0 | 0 | 0 |
| 1998/99 | 0 | 0 | 0 | 0 |
| 1999/00 | 0 | 0 | 0 | 0 |
| 2000/01 | 0 | 0 | 0 | 0 |
| 2001/02 | 0 | 0 | 0 | 0 |
| 2002/03 | 0 | 0 | 0 | 0 |
| 2003/04 | 0 | 0 | 0 | 0 |
| 2004/05 | 235,674 | 226,812 | 223,183 | 223,183 |
| 2005/06 | 0 | 175,651 | 225,431 | 205,519 |
| 2006/07 | 10,286 | 9,248 | 8,712 | 8,712 |
| 2007/08 | 270,372 | 380,241 | 422,437 | 375,146 |
| 2008/09 | 114,290 | 104,942 | 103,301 | 109,813 |
| 2009/10 | 212,333 | 297,294 | 295,795 | 271,356 |

Riverside Community College District
Appendix C - Liability (General and Automobile Combined) Exhibits

Preliminary Projected Ultimate Limited Losses to 2009/10
Footnotes:
(2) and (3) are from Exhibit LI-3.
(4) is from Exhibit LI-4.
(5) is based on (2) to (4), weighted as follows:

Subject to a minimum of Exhibit LI-1, (8) and minimum 15\% of case reserves as IBNR, unless all claims are closed.

| Claim Period | Developed Limited Paid Losses | Developed Limited Reported Incurred Losses | Developed Limited Case Reserves |
| :---: | :---: | :---: | :---: |
| to 1995/96 | 0.0\% | 0.0\% | 100.0\% |
| 1996/97 | 0.0\% | 0.0\% | 100.0\% |
| 1997/98 | 0.0\% | 0.0\% | 100.0\% |
| 1998/99 | 0.0\% | 0.0\% | 100.0\% |
| 1999/00 | 0.0\% | 0.0\% | 100.0\% |
| 2000/01 | 0.0\% | 0.0\% | 100.0\% |
| 2001/02 | 0.0\% | 0.0\% | 100.0\% |
| 2002/03 | 0.0\% | 10.0\% | 90.0\% |
| 2003/04 | 0.0\% | 20.0\% | 80.0\% |
| 2004/05 | 0.0\% | 30.0\% | 70.0\% |
| 2005/06 | 0.0\% | 40.0\% | 60.0\% |
| 2006/07 | 10.0\% | 40.0\% | 50.0\% |
| 2007/08 | 20.0\% | 40.0\% | 40.0\% |
| 2008/09 | 30.0\% | 40.0\% | 30.0\% |
| 2009/10 | 30.0\% | 40.0\% | 30.0\% |

## Riverside Community College District

Appendix C - Liability (General and Automobile Combined) Exhibits

Bornhuetter - Ferguson Analysis
I. A-priori Loss Rate

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

|  |  |  |  |  |  | B-FUltimate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | B-F |  |
|  | Limited | Percent | Projected |  | Unpaid | Limited |
|  | Paid |  | A-priori |  | Losses | Paid |
| Claim | Losses | Losses | Loss Rate |  | (100.0\%-(3)) | Losses |
| Period | 6/30/10 | Paid | per ADA | ADA | X(4) $\times$ (5) | (2)+(6) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 2005/06 | \$0 | 92.4\% | \$6.83 | 28,617 | \$14,845 | \$14,845 |
| 2006/07 | 8,712 | 84.7\% | 7.23 | 25,889 | 28,658 | 37,370 |
| 2007/08 | 209,379 | 64.2\% | 7.67 | 23,967 | 65,802 | 275,181 |
| 2008/09 | 59,888 | 23.1\% | 8.13 | 23,967 | 149,827 | 209,715 |
| 2009/10 | 9,765 | 4.2\% | 8.62 | 24,286 | 200,483 | 210,248 |

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Limited <br> Reported <br> Incurred | Percent | Projected <br> A-priori <br> Loss Rate |  | B-F <br> Unreported <br> Losses | Ultimate <br> Limited <br> Reported <br> Losses |
| Claim | Losses |  |  |  |  |  |

Section I, (2) is from Exhibit LI-5.
Section I, (3), Section II, (5) and Section III, (5) were provided by ASCIP.
Section I, (5) is based on a $6 \%$ trend.
Section I, (7) is based on Section I, (6) and the following weights:

| Claim Period | Weight |
| :---: | :---: |
| 2005/06 | 20.0\% |
| 2006/07 | 20.0\% |
| 2007/08 | 20.0\% |
| 2008/09 | 20.0\% |
| 2009/10 | 20.0\% |
| Prior | 0.0\% |

where the prior loss rate $=$
$\$ 0.00$
(extracted from the previous actuarial report)
Sections II and III, (2) are from Exhibit LI-1.
Sections II and III, (3) are from Exhibit LI-2.
Sections II and III, (4) are from Section I, (8).

## Riverside Community College District

Appendix C - Liability (General and Automobile Combined) Exhibits

Frequency Times Severity Analysis
I. Projected Ultimate Claims

|  | Months of <br> Development <br> $6 / 30 / 10$ | Reported <br> Claims | Percent <br> Claims | Projected <br> Ultimate |
| :---: | :---: | :---: | :---: | :---: |
| Claim | Claims |  |  |  |

Times Severity


## Section I, (3) is from Exhibit LI-1.

Section I, (4) is from Exhibit LI-2.

Section II, (2) is from Exhibit LI-5.
Section II, (3) is from Section I, (5)

Section II, (5) is based on a 6\% trend
Section II, (7) is based on (6) and the following weights:
Claim

Period | Weight |
| :---: |

Riverside Community College District
Appendix C - Liability (General and Automobile Combined) Exhibits


Riverside Community College District
Appendix C - Liability (General and Automobile Combined) Exhibits

Projected Ultimate Limited Losses to 2009/10

Footnotes:
(2) and (3) are from Exhibit LI-3.
(4) is from Exhibit LI-4
(5) and (6) are from Exhibit LI-6.
(7) is from Exhibit LI-7.

8 ) is based on (2) to (7), weighted as follows:

Subject to a minimum of Exhibit LI-1, (8) and minimum 15\% of case reserves as IBNR, unless all claims are closed.

| Claim Period | Developed <br> Limited Paid Losses | Developed Limited Reported Incurred Losses |
| :---: | :---: | :---: |
| to 1995/96 | 0.0\% | 0.0\% |
| 1996/97 | 0.0\% | 0.0\% |
| 1997/98 | 0.0\% | 0.0\% |
| 1998/99 | 0.0\% | 0.0\% |
| 1999/00 | 0.0\% | 0.0\% |
| 2000/01 | 0.0\% | 0.0\% |
| 2001/02 | 0.0\% | 10.0\% |
| 2002/03 | 0.0\% | 20.0\% |
| 2003/04 | 0.0\% | 30.0\% |
| 2004/05 | 0.0\% | 40.0\% |
| 2005/06 | 0.0\% | 40.0\% |
| 2006/07 | 20.0\% | 40.0\% |
| 2007/08 | 20.0\% | 40.0\% |
| 2008/09 | 20.0\% | 30.0\% |
| 2009/10 | 10.0\% | 20.0\% |


|  | B-F |
| :---: | :---: |
| Developed | Paid |
| Limited | Method |
| Case | Ultimate |
| Reserves | Losses |
| 100.0\% | 0.0\% |
| 100.0\% | 0.0\% |
| 100.0\% | 0.0\% |
| 100.0\% | 0.0\% |
| 100.0\% | 0.0\% |
| 100.0\% | 0.0\% |
| 90.0\% | 0.0\% |
| 80.0\% | 0.0\% |
| 70.0\% | 0.0\% |
| 60.0\% | 0.0\% |
| 60.0\% | 0.0\% |
| 40.0\% | 0.0\% |
| 40.0\% | 0.0\% |
| 20.0\% | 10.0\% |
| 20.0\% | 20.0\% |


| B-F <br> Reported |  |
| :---: | :---: |
|  |  |
| Method | Frequency |
| Ultimate | Times |
| Losses | Severity |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 0.0\% | 0.0\% |
| 10.0\% | 10.0\% |
| 20.0\% | 10.0\% |

Projected Ultimate Limited Losses for 2010/11 and Subsequent

| Claim Period <br> (1) | Projected Ultimate Limited Losses (2) | ADA <br> (3) | Limited Loss Rate per ADA (2)/(3) (4) | $\begin{aligned} & \text { Loss Rate } \\ & \text { Trend } \\ & (2010 / 11 \\ & =1.000) \\ & (5) \end{aligned}$ | Trended Limited Loss Rate per ADA (4) $\mathrm{X}(5)$ (6) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2005/06 | \$205,519 | 28,617 | \$7.18 | 1.338 | \$9.61 |
| 2006/07 | 8,712 | 25,889 | 0.34 | 1.262 | 0.42 |
| 2007/08 | 375,146 | 23,967 | 15.65 | 1.191 | 18.64 |
| 2008/09 | 137,353 | 23,967 | 5.73 | 1.124 | 6.44 |
| 2009/10 | 263,860 | 24,286 | 10.86 | 1.060 | 11.52 |
| Total | \$990,590 | 126,726 | \$7.82 |  | \$9.33 |


| Claim Period | Projected Limited Loss Rate per ADA <br> (7) | Projected ADA (8) | Projected Ultimate Limited Losses (7)X(8) (9) | Present <br> Value <br> Factor <br> (10) | Present Value of Projected Limited Loss Rate per ADA (7) $\times(10)$ (11) | Present Value of Projected Ultimate Limited Losses (8)X(11) (12) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2010/11 | \$9.33 | 25,015 | \$233,386 | 0.93 | \$8.68 | \$217,127 |
| 2011/12 | 9.89 | 25,765 | 254,816 | 0.93 | 9.20 | 237,038 |
| 2012/13 | 10.48 | 26,538 | 278,118 | 0.93 | 9.75 | 258,745 |
| 2013/14 | 11.11 | 27,334 | 303,682 | 0.93 | 10.33 | 282,361 |
| 2014/15 | 11.78 | 28,154 | 331,656 | 0.93 | 10.96 | 308,569 |

(2) is from Exhibit LI-8.
(3) was provided by ASCIP.
(5) is based on a 6\% trend
(7) for $2010 / 11$ is based on (6) and the following weights

|  | Claim <br> Period | Weights |
| :---: | :---: | :---: |
|  | 2005/06 | 20.0\% |
|  | 2006/07 | 20.0\% |
|  | 2007/08 | 20.0\% |
|  | 2008/09 | 20.0\% |
|  | 2009/10 | 20.0\% |
|  | Prior | 0.0\% |
| where the prior loss rate $=$ |  | \$0.00 |

(7) for 2011/12 and subsequent are based on 2010/11 plus a $6 \%$ trend.
(8) is based on (3) for 2009/10 and a $3 \%$ trend
(10) is based on a $2.5 \%$ interest rate and the payout pattern in Exhibit LI-2.

Riverside Community College District
Appendix C - Liability (General and Automobile Combined) Exhibits

|  | Estimated Outstanding Losses as of June 30, 2010 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Claim Period (1) | Limited <br> Paid Losses 6/30/10 <br> (2) | Limited Case Reserves 6/30/10 <br> (3) | Limited Reported Incurred Losses 6/30/10 <br> (4) | Projected Ultimate Limited Losses (5) | Estimated Outstanding Losses 6/30/10 (5)-(2) (6) | $\begin{gathered} \text { Estimated } \\ \text { IBNR } \\ 6 / 30 / 10 \\ (6)-(3) \\ (7) \end{gathered}$ |
| 1987/88 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1988/89 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989/90 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990/91 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991/92 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992/93 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993/94 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994/95 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995/96 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996/97 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997/98 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998/99 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999/00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000/01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001/02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002/03 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003/04 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004/05 | 223,183 | 0 | 223,183 | 223,183 | 0 | 0 |
| 2005/06 | 0 | 173,154 | 173,154 | 205,519 | 205,519 | 32,365 |
| 2006/07 | 8,712 | 0 | 8,712 | 8,712 | 0 | 0 |
| 2007/08 | 209,379 | 133,310 | 342,689 | 375,146 | 165,767 | 32,457 |
| 2008/09 | 59,888 | 43,413 | 103,301 | 137,353 | 77,465 | 34,052 |
| 2009/10 | 9,765 | 176,953 | 186,718 | 263,860 | 254,095 | 77,142 |
| Total | \$510,927 | \$526,830 | \$1,037,757 | \$1,213,773 | \$702,846 | \$176,016 |

[^0](2), (3) and (4) are from Exhibit LI-1.
(5) is from Exhibit LI-8.

Present Value of Estimated Outstanding Losses as of June 30, 2010

| Claim Period (1) | Estimated Outstanding Losses 6/30/10 <br> (2) | Present Value Factor (3) | Present <br> Value of Estimated Outstanding Losses 6/30/10 <br> (2) $\mathrm{X}(3)$ <br> (4) | Anticipated Future Investment Income (2)-(4) (5) |
| :---: | :---: | :---: | :---: | :---: |
| 1987/88 | \$0 | 1.00 | \$0 | \$0 |
| 1988/89 | 0 | 1.00 | 0 | 0 |
| 1989/90 | 0 | 1.00 | 0 | 0 |
| 1990/91 | 0 | 1.00 | 0 | 0 |
| 1991/92 | 0 | 1.00 | 0 | 0 |
| 1992/93 | 0 | 1.00 | 0 | 0 |
| 1993/94 | 0 | 0.94 | 0 | 0 |
| 1994/95 | 0 | 0.94 | 0 | 0 |
| 1995/96 | 0 | 0.94 | 0 | 0 |
| 1996/97 | 0 | 0.94 | 0 | 0 |
| 1997/98 | 0 | 0.95 | 0 | 0 |
| 1998/99 | 0 | 0.96 | 0 | 0 |
| 1999/00 | 0 | 0.96 | 0 | 0 |
| 2000/01 | 0 | 0.95 | 0 | 0 |
| 2001/02 | 0 | 0.95 | 0 | 0 |
| 2002/03 | 0 | 0.95 | 0 | 0 |
| 2003/04 | 0 | 0.95 | 0 | 0 |
| 2004/05 | 0 | 0.94 | 0 | 0 |
| 2005/06 | 205,519 | 0.94 | 192,777 | 12,742 |
| 2006/07 | 0 | 0.95 | 0 | 0 |
| 2007/08 | 165,767 | 0.96 | 159,468 | 6,299 |
| 2008/09 | 77,465 | 0.97 | 74,754 | 2,711 |
| 2009/10 | 254,095 | 0.95 | 241,644 | 12,451 |
| Total | \$702,846 |  | \$668,643 | \$34,203 |

I. Projected Losses Paid July 1, 2010 to June 30, 2011

| Claim Period <br> (1) | Months of Development 6/30/10 <br> (2) | Percent <br> Losses Paid (3) | Months of Development 6/30/11 <br> (4) | Percent <br> Losses Paid (5) | Percent Outstanding Losses Paid $7 / 1 / 10$ to $6 / 30 / 11$ $((5)-(3)) /$ $(100.0 \%-(3))$ <br> (6) | Estimated Outstanding Losses 6/30/10 <br> (7) | Projected Losses Paid (6) $X(7)$ (8) | Estimated Outstanding Losses 6/30/11 (7)-(8) <br> (9) | Present <br> Value <br> Factor <br> (10) | Present <br> Value of Estimated Outstanding Losses 6/30/11 (9) $\times(10)$ <br> (11) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 276.0 | 100.0\% | 288.0 | 100.0\% | 30.0\% | \$0 | \$0 | \$0 | 1.00 | \$0 |
| 1988/89 | 264.0 | 100.0\% | 276.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1989/90 | 252.0 | 100.0\% | 264.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1990/91 | 240.0 | 100.0\% | 252.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1991/92 | 228.0 | 100.0\% | 240.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1992/93 | 216.0 | 100.0\% | 228.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1993/94 | 204.0 | 100.0\% | 216.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1994/95 | 192.0 | 100.0\% | 204.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1995/96 | 180.0 | 99.9\% | 192.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1996/97 | 168.0 | 99.9\% | 180.0 | 99.9\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1997/98 | 156.0 | 99.8\% | 168.0 | 99.9\% | 50.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1998/99 | 144.0 | 99.6\% | 156.0 | 99.8\% | 50.0\% | 0 | 0 | 0 | 0.95 | 0 |
| 1999/00 | 132.0 | 99.3\% | 144.0 | 99.6\% | 42.9\% | 0 | 0 | 0 | 0.96 | 0 |
| 2000/01 | 120.0 | 98.9\% | 132.0 | 99.3\% | 36.4\% | 0 | 0 | 0 | 0.96 | 0 |
| 2001/02 | 108.0 | 98.2\% | 120.0 | 98.9\% | 38.9\% | 0 | 0 | 0 | 0.95 | 0 |
| 2002/03 | 96.0 | 97.4\% | 108.0 | 98.2\% | 30.8\% | 0 | 0 | 0 | 0.95 | 0 |
| 2003/04 | 84.0 | 96.1\% | 96.0 | 97.4\% | 33.3\% | 0 | 0 | 0 | 0.95 | 0 |
| 2004/05 | 72.0 | 94.7\% | 84.0 | 96.1\% | 26.4\% | 0 | 0 | 0 | 0.95 | 0 |
| 2005/06 | 60.0 | 92.4\% | 72.0 | 94.7\% | 30.3\% | 205,519 | 62,197 | 143,322 | 0.94 | 134,723 |
| 2006/07 | 48.0 | 84.7\% | 60.0 | 92.4\% | 50.3\% | 0 | 0 | 0 | 0.94 | 0 |
| 2007/08 | 36.0 | 64.2\% | 48.0 | 84.7\% | 57.3\% | 165,767 | 94,922 | 70,845 | 0.95 | 67,444 |
| 2008/09 | 24.0 | 23.1\% | 36.0 | 64.2\% | 53.4\% | 77,465 | 41,402 | 36,063 | 0.96 | 34,693 |
| 2009/10 | 12.0 | 4.2\% | 24.0 | 23.1\% | 19.7\% | 254,095 | 50,129 | 203,966 | 0.97 | 196,827 |
| 2010/11 | 0.0 | 0.0\% | 12.0 | 4.2\% | 4.2\% | 233,386 | 9,802 | 223,584 | 0.95 | 212,628 |
| Total |  |  |  |  |  | \$936,232 | \$258,452 | \$677,780 |  | \$646,315 |

Projected Losses Paid July 1, 2010 to June 30, 2015
II. Projected Losses Paid July 1, 2011 to June 30, 2012

III. Projected Losses Paid July 1, 2012 to June 30, 2013

| Claim Period <br> (1) | Months of Development 6/30/12 <br> (2) | Percent <br> Losses Paid (3) | Months of Development 6/30/13 <br> (4) | Percent <br> Losses Paid (5) | Percent Outstanding Losses Paid $7 / 1 / 12$ to $6 / 30 / 13$ $((5)-(3)) /$ $(100.0 \%-(3))$ $(6)$ | Estimated Outstanding Losses 6/30/12 <br> (7) | Projected Losses Paid (6) $X(7)$ (8) | Estimated Outstanding Losses 6/30/13 (7)-(8) (9) | Present <br> Value <br> Factor <br> (10) | Present <br> Value of Estimated Outstanding Losses 6/30/13 (9) $\times(10)$ (11) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 300.0 | 100.0\% | 312.0 | 100.0\% | 30.0\% | \$0 | \$0 | \$0 | 1.00 | \$0 |
| 1988/89 | 288.0 | 100.0\% | 300.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1989/90 | 276.0 | 100.0\% | 288.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1990/91 | 264.0 | 100.0\% | 276.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1991/92 | 252.0 | 100.0\% | 264.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1992/93 | 240.0 | 100.0\% | 252.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1993/94 | 228.0 | 100.0\% | 240.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1994/95 | 216.0 | 100.0\% | 228.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1995/96 | 204.0 | 100.0\% | 216.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1996/97 | 192.0 | 100.0\% | 204.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1997/98 | 180.0 | 99.9\% | 192.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1998/99 | 168.0 | 99.9\% | 180.0 | 99.9\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1999/00 | 156.0 | 99.8\% | 168.0 | 99.9\% | 50.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 2000/01 | 144.0 | 99.6\% | 156.0 | 99.8\% | 50.0\% | 0 | 0 | 0 | 0.95 | 0 |
| 2001/02 | 132.0 | 99.3\% | 144.0 | 99.6\% | 42.9\% | 0 | 0 | 0 | 0.96 | 0 |
| 2002/03 | 120.0 | 98.9\% | 132.0 | 99.3\% | 36.4\% | 0 | 0 | 0 | 0.96 | 0 |
| 2003/04 | 108.0 | 98.2\% | 120.0 | 98.9\% | 38.9\% | 0 | 0 | 0 | 0.95 | 0 |
| 2004/05 | 96.0 | 97.4\% | 108.0 | 98.2\% | 30.8\% | 0 | 0 | 0 | 0.95 | 0 |
| 2005/06 | 84.0 | 96.1\% | 96.0 | 97.4\% | 33.3\% | 105,463 | 35,154 | 70,309 | 0.95 | 66,583 |
| 2006/07 | 72.0 | 94.7\% | 84.0 | 96.1\% | 26.4\% | 0 | 0 | 0 | 0.95 | 0 |
| 2007/08 | 60.0 | 92.4\% | 72.0 | 94.7\% | 30.3\% | 35,191 | 10,650 | 24,541 | 0.94 | 23,069 |
| 2008/09 | 48.0 | 84.7\% | 60.0 | 92.4\% | 50.3\% | 15,412 | 7,756 | 7,656 | 0.94 | 7,181 |
| 2009/10 | 36.0 | 64.2\% | 48.0 | 84.7\% | 57.3\% | 94,954 | 54,373 | 40,581 | 0.95 | 38,633 |
| 2010/11 | 24.0 | 23.1\% | 36.0 | 64.2\% | 53.4\% | 179,474 | 95,922 | 83,552 | 0.96 | 80,377 |
| 2011/12 | 12.0 | 4.2\% | 24.0 | 23.1\% | 19.7\% | 244,114 | 48,160 | 195,954 | 0.97 | 189,096 |
| 2012/13 | 0.0 | 0.0\% | 12.0 | 4.2\% | 4.2\% | 278,118 | 11,681 | 266,437 | 0.95 | 253,382 |
| Total |  |  |  |  |  | \$952,726 | \$263,696 | \$689,030 |  | \$658,321 |

IV. Projected Losses Paid July 1, 2013 to June 30, 2014

| Claim Period <br> (1) | Months of Development 6/30/13 <br> (2) | Percent Losses Paid (3) | Months of Development 6/30/14 <br> (4) | Percent <br> Losses Paid (5) | Percent Outstanding Losses Paid $7 / 1 / 13$ to $6 / 30 / 14$ $((5)-(3)) /$ $(100.0 \%-(3))$ $(6)$ <br> (6) | Estimated Outstanding Losses 6/30/13 (7) | Projected Losses Paid (6) $X(7)$ (8) | Estimated Outstanding Losses 6/30/14 (7)-(8) (9) | Present <br> Value <br> Factor <br> (10) | Present <br> Value of Estimated Outstanding Losses 6/30/14 (9) $\times(10)$ (11) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 312.0 | 100.0\% | 324.0 | 100.0\% | 30.0\% | \$0 | \$0 | \$0 | 1.00 | \$0 |
| 1988/89 | 300.0 | 100.0\% | 312.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1989/90 | 288.0 | 100.0\% | 300.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1990/91 | 276.0 | 100.0\% | 288.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1991/92 | 264.0 | 100.0\% | 276.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1992/93 | 252.0 | 100.0\% | 264.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1993/94 | 240.0 | 100.0\% | 252.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1994/95 | 228.0 | 100.0\% | 240.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1995/96 | 216.0 | 100.0\% | 228.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1996/97 | 204.0 | 100.0\% | 216.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1997/98 | 192.0 | 100.0\% | 204.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1998/99 | 180.0 | 99.9\% | 192.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1999/00 | 168.0 | 99.9\% | 180.0 | 99.9\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 2000/01 | 156.0 | 99.8\% | 168.0 | 99.9\% | 50.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 2001/02 | 144.0 | 99.6\% | 156.0 | 99.8\% | 50.0\% | 0 | 0 | 0 | 0.95 | 0 |
| 2002/03 | 132.0 | 99.3\% | 144.0 | 99.6\% | 42.9\% | 0 | 0 | 0 | 0.96 | 0 |
| 2003/04 | 120.0 | 98.9\% | 132.0 | 99.3\% | 36.4\% | 0 | 0 | 0 | 0.96 | 0 |
| 2004/05 | 108.0 | 98.2\% | 120.0 | 98.9\% | 38.9\% | 0 | 0 | 0 | 0.95 | 0 |
| 2005/06 | 96.0 | 97.4\% | 108.0 | 98.2\% | 30.8\% | 70,309 | 21,634 | 48,675 | 0.95 | 46,387 |
| 2006/07 | 84.0 | 96.1\% | 96.0 | 97.4\% | 33.3\% | 0 | 0 | 0 | 0.95 | 0 |
| 2007/08 | 72.0 | 94.7\% | 84.0 | 96.1\% | 26.4\% | 24,541 | 6,483 | 18,058 | 0.95 | 17,065 |
| 2008/09 | 60.0 | 92.4\% | 72.0 | 94.7\% | 30.3\% | 7,656 | 2,317 | 5,339 | 0.94 | 5,019 |
| 2009/10 | 48.0 | 84.7\% | 60.0 | 92.4\% | 50.3\% | 40,581 | 20,423 | 20,158 | 0.94 | 18,908 |
| 2010/11 | 36.0 | 64.2\% | 48.0 | 84.7\% | 57.3\% | 83,552 | 47,844 | 35,708 | 0.95 | 33,994 |
| 2011/12 | 24.0 | 23.1\% | 36.0 | 64.2\% | 53.4\% | 195,954 | 104,730 | 91,224 | 0.96 | 87,757 |
| 2012/13 | 12.0 | 4.2\% | 24.0 | 23.1\% | 19.7\% | 266,437 | 52,564 | 213,873 | 0.97 | 206,387 |
| 2013/14 | 0.0 | 0.0\% | 12.0 | 4.2\% | 4.2\% | 303,682 | 12,755 | 290,927 | 0.95 | 276,672 |
| Total |  |  |  |  |  | \$992,712 | \$268,750 | \$723,962 |  | \$692,189 |

Projected Losses Paid July 1, 2010 to June 30, 2015
V. Projected Losses Paid July 1, 2014 to June 30, 2015

| Claim Period <br> (1) | Months of Development 6/30/14 <br> (2) | Percent Losses Paid (3) | Months of Development 6/30/15 <br> (4) | Percent <br> Losses Paid (5) |  <br> (6) | Estimated Outstanding Losses 6/30/14 (7) | Projected Losses Paid (6) $X(7)$ (8) | Estimated Outstanding Losses 6/30/15 (7)-(8) (9) | Present <br> Value <br> Factor <br> (10) | Present <br> Value of Estimated Outstanding Losses 6/30/15 (9) $\times(10)$ (11) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987/88 | 324.0 | 100.0\% | 336.0 | 100.0\% | 30.0\% | \$0 | \$0 | \$0 | 1.00 | \$0 |
| 1988/89 | 312.0 | 100.0\% | 324.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1989/90 | 300.0 | 100.0\% | 312.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1990/91 | 288.0 | 100.0\% | 300.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1991/92 | 276.0 | 100.0\% | 288.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1992/93 | 264.0 | 100.0\% | 276.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1993/94 | 252.0 | 100.0\% | 264.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1994/95 | 240.0 | 100.0\% | 252.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1995/96 | 228.0 | 100.0\% | 240.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1996/97 | 216.0 | 100.0\% | 228.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1997/98 | 204.0 | 100.0\% | 216.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 1.00 | 0 |
| 1998/99 | 192.0 | 100.0\% | 204.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 1999/00 | 180.0 | 99.9\% | 192.0 | 100.0\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 2000/01 | 168.0 | 99.9\% | 180.0 | 99.9\% | 30.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 2001/02 | 156.0 | 99.8\% | 168.0 | 99.9\% | 50.0\% | 0 | 0 | 0 | 0.94 | 0 |
| 2002/03 | 144.0 | 99.6\% | 156.0 | 99.8\% | 50.0\% | 0 | 0 | 0 | 0.95 | 0 |
| 2003/04 | 132.0 | 99.3\% | 144.0 | 99.6\% | 42.9\% | 0 | 0 | 0 | 0.96 | 0 |
| 2004/05 | 120.0 | 98.9\% | 132.0 | 99.3\% | 36.4\% | 0 | 0 | 0 | 0.96 | 0 |
| 2005/06 | 108.0 | 98.2\% | 120.0 | 98.9\% | 38.9\% | 48,675 | 18,929 | 29,746 | 0.95 | 28,348 |
| 2006/07 | 96.0 | 97.4\% | 108.0 | 98.2\% | 30.8\% | 0 | 0 | 0 | 0.95 | 0 |
| 2007/08 | 84.0 | 96.1\% | 96.0 | 97.4\% | 33.3\% | 18,058 | 6,019 | 12,039 | 0.95 | 11,401 |
| 2008/09 | 72.0 | 94.7\% | 84.0 | 96.1\% | 26.4\% | 5,339 | 1,410 | 3,929 | 0.95 | 3,713 |
| 2009/10 | 60.0 | 92.4\% | 72.0 | 94.7\% | 30.3\% | 20,158 | 6,100 | 14,058 | 0.94 | 13,215 |
| 2010/11 | 48.0 | 84.7\% | 60.0 | 92.4\% | 50.3\% | 35,708 | 17,971 | 17,737 | 0.94 | 16,637 |
| 2011/12 | 36.0 | 64.2\% | 48.0 | 84.7\% | 57.3\% | 91,224 | 52,237 | 38,987 | 0.95 | 37,116 |
| 2012/13 | 24.0 | 23.1\% | 36.0 | 64.2\% | 53.4\% | 213,873 | 114,307 | 99,566 | 0.96 | 95,782 |
| 2013/14 | 12.0 | 4.2\% | 24.0 | 23.1\% | 19.7\% | 290,927 | 57,396 | 233,531 | 0.97 | 225,357 |
| 2014/15 | 0.0 | 0.0\% | 12.0 | 4.2\% | 4.2\% | 331,656 | 13,930 | 317,726 | 0.95 | 302,157 |
| Total |  |  |  |  |  | \$1,055,618 | \$288,299 | \$767,319 |  | \$733,726 |

## Projected Losses Paid July 1, 2010 to June 30, 2015

Footnotes:
Sections I, II, III, IV and V, (3) and (5) are from Exhibit LI-2.
Section I, (7) to 2009/10 is from Exhibit LI-10. The amount for 2010/11 is from Exhibit LI-9
Section II, (7) to 2010/11 is from Section I, (9). The amount for 2011/12 is from Exhibit LI-9.
Section III, (7) to 2011/12 is from Section II, (9). The amount for 2012/13 is from Exhibit LI-9.
Section IV, (7) to 2012/13 is from Section III, (9). The amount for 2013/14 is from Exhibit LI-9.
Section V, (7) to 2013/14 is from Section IV, (9). The amount for 2014/15 is from Exhibit LI-9.
Sections I, III, III, IV and V, (10) are based on a $2.5 \%$ interest rate and the payout pattern in Exhibit LI-2.

## Appendix D

## CONDITIONS AND LIMITATIONS

## Riverside Community College District

Appendix D - Conditions and Limitations

It is important to understand the conditions and limitations listed below. Each chapter and section is an integral part of the whole study. If there are questions, please contact LECG for clarification.

- Data Quality. We relied upon data provided by the organization shown on the transmittal page or its designated agents. The data was used without verification or audit, other then checks for reasonableness. Unless otherwise stated, we assumed the data to be correct and complete.
- Economic Environment. Unless otherwise stated, we assumed the current economic conditions will continue in the foreseeable future.
- Insurance Coverage. Unless otherwise stated, we assumed no insurance coverage changes (including coverage provided by the organization to others) subsequent to the date this study was prepared. This includes coverage language, self-insured retention, limitations and similar issues.
- Insurance Solvency. Unless otherwise stated, we assumed all insurance purchased by the organization is from solvent sources payable in accordance with terms of the coverage document.
- Interest Rate. The exhibits specify the annual interest rate(s) used. The interest rate(s) used were specified by the organization shown on the transmittal page or its designated agents. We express no opinion regarding the appropriateness of the interest rate(s) used in this report.
- Methodology. In this study, different actuarial methods were applied. In some instances, the methods yield significantly disparate results. The estimates, projections and recommendations in this study reflect our judgments as to the best method or combination of methods that are most reliable and reflective of the exposure to loss.
- Reproduction. This study may only be reproduced in its entirety. We caution third parties to not distribute this report to any party without the express written consent of LECG and the parties, who engaged LECG to prepare this report, because the report contains privileged information and unauthorized distribution of the report might be a violation of local laws.
- Risk and Variability. Insurance is an inherently risky enterprise. Actual losses may vary significantly from our estimates, projections and recommendations. They may emerge higher or lower.
- Statutory and Judicial Changes. Legislatures and judiciaries may change statutes that govern indemnification. This includes benefit levels for workers compensation, immunities and limitations for liability, and other similar issues. Unless otherwise stated, we assumed no statutory changes subsequent to the date this study was prepared.


## Riverside Community College District

Appendix D - Conditions and Limitations

- Supplemental Data. In addition to the data provided by the organization, we supplemented our analysis with data from similar organizations and insurance industry statistics, as we deemed appropriate.
- Usage. This study has been prepared for the usage of the organization shown on the transmittal page. It was not prepared for and may not be appropriate for use by other organizations. Other organizations should obtain counsel from LECG prior to use of this study.
- Assets. We have not examined the assets underlying the corresponding losses and ALAE under review. We form no opinion as to the validity or value of these assets. Throughout our analysis, we have assumed the reserves are backed by valid assets, which have suitably scheduled maturities or adequate liquidity to meet cash flow requirements.
- Mass Tort and Terrorism. Unless specifically stated, our analysis does not reflect any provision for risk exposure from mass torts or terrorism, because these risk exposures were outside the scope of our work.
- Intended Use Disclosure (per ASOP 43). We understand the intended use of the estimated outstanding losses is for internal management reporting and external financial reporting purposes. Because the internal management reporting is consistent with external financial reporting, we are unaware of conflicts (actual or otherwise) that might arise from this dual usage.
- Constraints Disclosure (per ASOP 43). We worked with the most readily available data provided by RCCD and its claims administrator(s). The data appeared to be of excellent quality; therefore, we have no constraints on the data with respect to performing this analysis. We were provided ample time to perform the work; therefore, we have no constraints regarding deadlines. In addition, RCCD and its claims administrator(s) cooperated fully with our requests for information.
- Scope of Unpaid Claim Estimate Disclosure \#1 - Type of Estimate (per ASOP 43). Throughout the report, we calculated an "actuarial central estimate". In some instances, we may have calculated provisions for risk margins to add to the actuarial central estimate. These risk margins would be shown in the results of a confidence level analysis. Therefore, all amounts at the expected confidence level should be understood to be the actuarial central estimate unless specifically identified to the contrary.
- Scope of Unpaid Claim Estimate Disclosure \#2 - Purpose of Estimate (per ASOP 43). We believe the actuarial central estimate is appropriate for internal and external financial reporting purposes.
- Scope of Unpaid Claim Estimate Disclosure \#3 - Discounting (per ASOP 43). We calculated our actuarial central estimates at full-value (i.e., undiscounted) and at present value (i.e., discounted to reflect the time value of money). We labeled the discounted amounts with the words "Present Value of the Estimated Outstanding Losses".


## Riverside Community College District

Appendix D - Conditions and Limitations

- Gross or Net of Specified Recoverables Disclosure (per ASOP 43). Because RCCD purchases excess insurance and/or participates in insurance pools, all amounts in this report should be understood to be net of insurance recoverables unless specifically identified to the contrary.
- Collectability Risk Disclosure (per ASOP 43). Our discussions with RCCD did not reveal any collectability risk as of the date of this report.
- Unpaid Claim Adjustment Expense Disclosure (per ASOP 43). No provision for ULAE is included in the amounts shown in this report. Amounts for ALAE have been included.
- Type of Claims Covered in the Analysis Disclosure (per ASOP 43). The background section of this report describes the type of claims covered in the analysis. In addition, the text in the conclusion section specifies any modifications to the description contained in the background section.
- Cut-off Date Disclosure (per ASOP 43). Unless specified to the contrary, the cut-off date for including information in this report is the date shown on the transmittal letter.


## Appendix E

## EXPANDED DISCUSSION OF ACTUARIAL <br> METHODOLOGY AND ASSUMPTIONS FOR SELFFUNDED MEDICAL BENEFITS

## Riverside Community College District

Appendix E - Expanded Discussion of Actuarial Methodology and Assumptions for Self-Funded Medical Benefits

## Methodology

This analysis was conducted at the plan level for the self-insured PPO plan administered by the Orange County Foundation. Losses, administrative expenses, stop loss premiums, and capitation expenses were each analyzed separately. The projected reserves as of June 30, 2010, 2011 and 2012 were estimated by applying IBNR factors, as of the respective dates, to the projected ultimate losses over the next 12 months.

IBNR factors were calculated as the complement of the inverse of the cumulative development factors (1-[1 / (cumulative development factor)]). Cumulative loss development factors were derived by accumulating incremental loss development factors selected based on triangles of paid losses, arranged by incurred month and paid month. Projected ultimate losses were determined by applying the trended average loss per member per month (average loss) to the forecasted monthly enrollment. The chart below displays the estimated aggregate proportion of payments for each plan as time elapses from the date the claim was incurred.

| Loss Development Factors <br> Duration <br> (Months) |  |
| :---: | :---: |
| 1 | PPO |
| 2 | $7.2 \%$ |
| 3 | $77.5 \%$ |
| 4 | $89.4 \%$ |
| 5 | $89.3 \%$ |
| 6 | $93.0 \%$ |
| 7 | $95.2 \%$ |
| 8 | $97.1 \%$ |
| 9 | $97.7 \%$ |
| 10 | $98.1 \%$ |
| 11 | $98.8 \%$ |
| 12 | $99.0 \%$ |
| 13 | $99.5 \%$ |

Projected losses paid during each fiscal year were determined by applying the payment patterns to the projected ultimate losses by month through June of 2013. The payment patterns were derived from the cumulative loss development factors. Projected PPO claims were reduced $0.65 \%$ for expected stop-loss recoveries. Projected paid administrative expenses were determined by applying the trended monthly cost to the forecasted monthly enrollment.

Projected stop loss premiums were determined by applying the trended monthly charge to the forecasted monthly enrollment. Projected capitation expenses were calculated by applying the trended monthly per member per month charge to the forecasted monthly enrollment. The most

## Riverside Community College District

Appendix E - Expanded Discussion of Actuarial Methodology and Assumptions for Self-Funded Medical Benefits
recent renewal rates were used for the initial administrative and stop loss charges. The initial capitation expense was determined based on historic charges.

The average claims, administrative expenses, stop loss premiums, and capitation expense were trended to the midpoint of each fiscal year (December 31) and assumed to be constant throughout the fiscal year (July 1 to June 30). The payment history for the prescription plan suggests an almost immediate payment of claims. As a result, prescription drug benefits are excluded from this analysis.

## Limitations on Analysis

The medical benefit projections are subject to uncertainty due to the inherent nature of employee's (and their families) health and welfare claims exposure, varying claims handling practices, and other external factors. The actual emergence of projected claim losses and IBNR reserves may be significantly greater or smaller than indicated, and may be revised at future evaluations in light of the emergence of subsequent experience.

The information contained in this report was prepared for the internal use of RCCD and its auditors in connection with the actuarial evaluation of the self-funded healthcare plans. It is neither intended nor necessarily suitable for other purposes. RCCD may also distribute this actuarial valuation letter to parties which have a legal right to require RCCD to provide them with this report, in which case they will provide this report in its entirety including all assumptions, caveats and limitations.

## Actuarial Assumptions

This actuarial analysis has been conducted in accordance with generally accepted actuarial principles and practices, including the applicable Actuarial Standards of Practice, as issued by the Actuarial Standards Board. The following sections highlight some of the key assumptions on which our analysis was based.

## Trend Rates

The healthcare trend assumption reflects healthcare cost inflation expected to impact the plan based on forecast information in published papers from industry experts (actuaries, health economists, etc.). The expected increase in stop-loss coverage costs and administrative costs consider market trends and industry knowledge. For the purpose of projecting costs, the trend rates for the two succeeding years are also provided. As shown below, medical trend rates are assumed to decrease in the following two years due to improvements in medicine, equipment, research and technology.

| Trend Rate Type | 2010-2011 | $\mathbf{2 0 1 1 - 2 0 1 2}$ | 2012-2013 |
| :--- | :---: | :---: | :---: |
| Medical | $10.00 \%$ | $9.00 \%$ | $8.00 \%$ |
| Administrative Costs | $5.00 \%$ | $5.00 \%$ | $5.00 \%$ |
| Stop Loss | $5.00 \%$ | $5.00 \%$ | $5.00 \%$ |

## Riverside Community College District

Appendix E - Expanded Discussion of Actuarial Methodology and Assumptions for Self-Funded Medical Benefits

## Enrollment Growth

Enrollment is assumed to remain constant in future years for projection purposes.

## Data Assumptions

Information about the plan and claims was received from RCCD and its health care insurance broker.

LECG was provided with monthly medical claims on an incurred and paid basis for the selfinsured PPO plan administered by the Orange County Foundation, annual capitation, and monthly enrollment data for all plans for the periods from March 2008 through October 2010.

An exhibit prepared by RCCD disclosed total PPO stop-loss recoveries for plan years 2005 2010. This information was used in developing the $0.65 \%$ stop-loss recovery assumption used in our calculations.

## Claim Administrative Expense

An exhibit prepared by RCCD disclosed total administrative expense and stop-loss expenditures for the 2004-2009 fiscal years. This information was trended and used in developing the following assumptions:

- Administrative expense: Self-funded PPO fees of $\$ 31.54$ per member per month (PMPM); and
- Stop-loss fees of \$77.40 PMPM.


## Appendix F

## GLOSSARY OF ACTUARIAL TERMS

## Riverside Community College District

Appendix F - Glossary of Actuarial Terms

## Actuarial Methods (Most Common)

A major objective of an actuarial study is to statistically project ultimate losses. The following actuarial methods are the most common:

- Developed Paid Losses
- Developed Reported Incurred Losses
- Developed Case Reserves
- Frequency Times Severity Analysis
- Loss Rate Analysis

The following describes each method:

1. Developed Paid Losses. Paid losses represent the amounts actually paid to claimants (less excess insurance recoveries). As time goes on, loss payments continue until all claims are closed and there are no remaining payments expected. At this time, the ultimate losses for the claim period are known. This common process is called "paid loss development."

Paid loss development is an extrapolation of actual dollars paid. It does not depend on case reserve estimates. A potential shortcoming of utilizing this method is that only a small fraction of total payments have been made for the most recent claim periods. Extrapolating ultimate losses based on small amounts of actual payments may be speculative. A second potential shortcoming is that payment patterns can change over time.
2. Developed Reported Incurred Losses. Reported incurred losses are paid losses plus case reserves. In most programs, total reported incurred losses underestimate the ultimate losses. Over time, as more information about a body of claims becomes known, they are adjusted either up or down until they are closed. Though many individual claims settle for less than what was estimated, these decreases are generally more than offset by increases in the cost of other claims for which new information has emerged.

The net effect is that total estimated costs are often revised upward over time. This normal process is called "reported incurred loss development." Actuaries typically review the development patterns of the recent past to make projections of the expected future loss development and, therefore, estimations of ultimate losses.
3. Developed Case Reserves. The developed case reserves method is a hybrid of the paid loss development and reported incurred loss development methods. It relies on the historical adequacy of case reserves to predict ultimate losses.
4. Frequency Times Severity Analysis. The frequency times severity analysis is an actuarial method that uses a preliminary projection of ultimate losses to project claims severity. The claims severity times the number of claims is a predictor of ultimate losses. The focus of the

## Riverside Community College District

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frequency times severity analysis is that ultimate losses each period are dependent on the number of claims.
5. Loss Rate Analysis. The loss rate analysis is based on the historical loss rates per exposure unit (such as payroll, vehicles or property value). The loss rates (projected ultimate losses divided by exposure units) are trended to reflect the effect of claim cost inflation and retention changes. The trended loss rates represent the rates that one would see if all of the claims had been handled in the claim cost environment that will be present in the upcoming period. The trended loss rate times the projected exposure units is a predictor of losses.
6. Bornhuetter-Ferguson Method (B-F). The B-F method is an actuarial method that weights a preliminary projection of ultimate losses with projections of ultimate losses determined by other actuarial methods (usually the developed paid losses and developed reported incurred losses methods). For less mature claim periods, the B-F method leans more heavily to the preliminary projection. It gradually converges to the projections of ultimate losses determined by the other actuarial methods as the claim periods mature.

## Actuary

A specialist trained in mathematics, statistics, and finance who is responsible for rate, reserve, and dividend calculations and other statistical studies.

## Allocated Loss Adjustment Expenses

Allocated loss adjustment expenses (ALAE) are the direct expenses to settle specific claims. These expenses are primarily legal expenses.

Accounting standards require that ALAE be included in financial statements and that they be calculated by actuarial methods.

## American Academy of Actuaries

A society concerned with the development of education in the field of actuarial science and with the enhancement of standards in the actuarial field. Members may use the designation MAAA (Member, American Academy of Actuaries).

## Benefits

The financial reimbursement and other services provided insureds by insurers under the terms of an insurance contract. An example would be the benefits listed under a life or health insurance policy or benefits as prescribed by a workers compensation law.

## Casualty Actuarial Society

A professional society for actuaries in areas of property and casualty insurance work. This society grants the designation of Associate of the Casualty Actuarial Society (ACAS) and Fellow of the Casualty Actuarial Society (FCAS).

## Riverside Community College District

Appendix F - Glossary of Actuarial Terms

## Claim

Demand by an individual or entity to recover for a loss.

## Claims Made

A policy written on this basis covers only those claims that are made during the policy period. Coverage for prior acts is provided back to what is known as the retroactive date, which is the effective date of the original claims made policy with the same insurer.

## Composite Rate

A single rate with a single basis of premium (e.g., payroll or sales). For this single rate the insured is covered for a variety of hazards, such as premises and operations, completed operations, products liability, and automobile. Its primary value is to compute premium simply.

## Confidence Level

A confidence level is the statistical certainty that an actuary believes funding will be sufficient. For example, an $80 \%$ confidence level means that the actuary believes funding will be sufficient in eight years out of ten.

Confidence levels are determined based on mathematical models. Coverages that are low frequency and high severity (such as excess liability) are subject to greater risk than coverages that are high frequency and low severity (such as automobile physical damage). Therefore, they need a greater margin to attain a given confidence level.

Expected corresponds to approximately a $55 \%$ confidence level. Amounts above expected are prudent, but should be considered equity (not a liability).

## Coverage

The scope of the protection provided under a contract of insurance.

## Credibility

Credibility is the belief that the sample data is an accurate reflection of the larger population. Credibility is highest when the sample data is large and the standard deviation (discussed later) of the larger population is low.

## Dates

There are at least three milestone dates in a claim. They are the date of injury or accident, the date of report and the date of closure. It is best if each of these dates is recorded. Some organizations may also keep the date a claim becomes a lawsuit, as opposed to a demand. LECG recommends this additional level of detail, especially if the data is to be used for litigation management.

## Riverside Community College District

Appendix F - Glossary of Actuarial Terms

## Deductible

The portion of an insured loss to be borne by the insured before he is entitled to recovery from the insurer. Deductibles may be expressed as a dollar amount, percentage or waiting period.

## Disability

A condition that curtails a person's ability to carry on his normal pursuits. A disability may be partial or total, and temporary or permanent.

## Dividend (Policyholder)

The return of part of the premium paid for a policy issued on a participating basis by either a mutual or a stock insurer.

## Estimated Outstanding Losses

Estimated outstanding losses are the cost of claims that have occurred but have not yet been paid. They typically include indemnification and allocated loss adjustment expenses (ALAE), but not unallocated loss adjustment expenses (ULAE).

Estimated outstanding losses are calculated as projected ultimate losses less paid losses. Alternatively, they are the sum of case reserves and incurred but not reported (IBNR) claims.

Estimated outstanding losses are usually the largest single item listed as a liability on the balance sheet of an insurer's financial statement. Accounting standards require they be calculated by actuarial methods. Other common names for estimated outstanding losses are outstanding claims liabilities and unpaid claims.

The uncertainty inherent in the estimation of required provision for unpaid losses or loss adjustment expenses implies that a range of reserves can be actuarially sound. The true value of the liability for losses or loss adjustment expenses at any accounting date can be known only when all attendant claims have been settled.

The most appropriate reserve within a range of actuarially sound estimates depends on both the relative likelihood of estimates within the range and the financial reporting context in which the reserve will be presented.

## Riverside Community College District

Appendix F - Glossary of Actuarial Terms

## Experience Rating

A method of adjusting the premium for a risk based on past loss experience for that risk compared to loss experience for an average risk.

## Exposure Data

Exposure data refers to the activities of the organization. For example, payroll is the most common exposure measure for workers compensation. LECG suggests collecting exposure data with the following characteristics:

- Readily Available. The exposure data should be easily obtained. It is best if it is a byproduct of other activities, although this is not always possible. If getting data is arduous, it may discourage collection.
- Vary With Losses. The exposure data should correlate directly with losses. The ideal situation is where exposure and expected losses move in tandem. The exposure base needs to be fitting to the coverage. For example, the number of employees may vary with property losses (more employees = more office space $=$ more losses), but property value is a clearly superior exposure base for property losses.


## Generally Accepted Accounting Principles (GAAP)

These principles are intended to produce financial results (in the insurance industry) consistent with those of other industries and to assure consistency in financial reporting.

## Incurred But Not Reported

IBNR is really comprised of two distinct items. These are the development of known case reserves (incurred but not enough reported [IBNER] and incurred but not yet reported [IBNYR]).

IBNER are the actuary's estimate of the inadequacy of case reserves. Most claims settle at amounts close to what is set by the claims administrator. Some claims close favorably and some emerge as more expensive. On balance, case reserves tend to be too low (especially for recent years). IBNER is the actuary's estimate of the amount total case reserves will rise upon closure.

IBNYR refers to those claims that have occurred, but have not yet been reported. A classic example is medical malpractice claim reported several years after the medical procedure was performed.

## Insurance Services Office (ISO)

An organization of the property and casualty insurance business designed to gather statistics, promulgate rates, and develop policy forms.

## Investment Income

## Riverside Community College District

Appendix F - Glossary of Actuarial Terms
The return received by entities from their investment portfolios, including interest, dividends and realized capital gains on stocks. Realized capital gains means the profit realized on assets that have actually been sold for more their purchase price.

## Limited

Most programs purchase excess insurance for catastrophic claims. For example, they may purchase coverage for claims above a $\$ 500,000$ per occurrence self-insured retention. Limited refers to an estimate or projection being limited to the self-insured retention. In contrast, unlimited refers to a loss projection that is not limited to the self-insured retention.

Other common names for limited are net of excess insurance or capped losses.

## Loss Development

The difference between the amount of losses initially estimated by the insurer and the amount reported in an evaluation on a later date. Loss development is typically measured for paid losses, reported incurred losses and claim counts.

## Manual Rates

Usually, the published rate for some unit of insurance. An example is in the workers compensation manual, where the rates shown apply to each $\$ 100$ of the payroll of the insured, $\$ 100$ being the "unit."

## National Council on Compensation Insurance (NCCI)

An association of workers compensation insurance companies whose main functions are collecting statistics and calculating rates, establishing policy wording, developing experience and retrospective rating plans, and serving as the filing organization for member companies.

## Net

Many pooling programs assign deductibles to members. For example, each member may have a $\$ 5,000$ per claim deductible. "Net" refers to a loss estimate or projection that excludes amounts below member deductibles.

## Occurrence

An event that results in an insured loss. In some lines of insurance, such as general liability, it is distinguished from accident in that the loss does not have to be sudden and fortuitous and can result from continuous or repeated exposure that results in bodily injury or property damage neither expected nor intended by the insured.

## Pool

An organization of entities through which particular types of risks are written with the premiums, losses, and expenses shared in agreed amounts among the members belonging to the organization.

## Riverside Community College District

Appendix F - Glossary of Actuarial Terms

## Premium

The price of insurance protection for a specified risk for a specified period of time.

## Present Value

The amount of money that future amounts receivable are currently worth. For example, a Life Insurance policy may provide for payments to be made monthly for ten years. The present value of that money would be less than the total amount of the regular periodic payments for 10 years because of the amount of interest that a present lump sum could earn during the term than the payments otherwise would have been made.

## Probability

The probability is the likelihood of an event. It is a measure of how likely a value or event is to occur. It can be measured from data by calculating the number of occurrences of the value or event divided by the total number of occurrences. This calculation can be converted to a percentage. For example, tossing a coin has a $50 \%$ probability of heads or tails.

## Projected Losses Paid

Projected losses paid are the projected claims disbursements in a period, regardless of when the claim occurred. They typically include indemnification and ALAE, but not unallocated loss adjustment expenses (ULAE).
"Projected losses paid" is a cash-flow analysis that can be used in making investment decisions.

## Projected Ultimate Losses

Projected ultimate losses are the accrual value of claims. They are the total amount that is expected to be paid in a particular claim period after all claims are closed. Projected ultimate losses are the total loss costs for a particular period. They typically include indemnification and ALAE, but not ULAE.

Other common names for projected ultimate losses are expected losses, ultimate losses and total losses.

## Range of Reasonable Estimates

According to actuarial statements of principles and standards of practice, a range of reasonable estimates of the provision for unpaid claims can be actuarially sound.

Due to the uncertainty inherent in estimating the provision for unpaid claims, the range of reasonable estimates is a narrower range than the range of all possible outcomes or the range of all likely outcomes.

## Rate

## Riverside Community College District

Appendix F - Glossary of Actuarial Terms
The cost of a given unit of insurance. For example, in life insurance, it is the price of $\$ 1,000$ of the face amount. In property insurance, it is the rate per $\$ 100$ of value to be insured. The premium is the rate multiplied by the number of units of insurance purchased.

## Retrospective Rating

A method for which the final premium is not determined until the end of the coverage period, and is based on the insured's own loss experience for that same period. It is usually subject to a maximum and minimum premium. A plan of this type can be used in various types of insurance, especially workers compensation and liability, and is usually elected by only very large insureds.

## Salvage

Property taken over by an entity to reduce its loss. Automobile physical damage losses can be reduced by the sale of recovered vehicles.

## Schedule Rating

The application of debits or credits within established ranges for various characteristics of a risk according to an established schedule of items. Under liability and automobile insurance, the schedule rating plan allows credits and debits for various good or bad features of a particular commercial risk. An example in automobile schedule rating would be allowing credits for driver training classes or fleet maintenance programs.

## Self-Insurance Retention (SIR)

That portion of a risk or potential loss assumed by an insured. It is often in the form of a per occurrence deductible.

## Society of Actuaries (SOA)

A professional society for actuaries in areas of pensions, and life and health insurance work. The SOA grants the designation Associate of the Society of Actuaries (ASA) and Fellow of the Society of Actuaries (FSA).

## Standard Premium

Most often used in connection with retrospective rating for Workers Compensation and General Liability Insurance. It is the premium of which the basic premium is a percentage and is developed by applying the regular rates to an insured's payroll.

## State Fund

A fund set up by a state government to finance a mandatory insurance system, such as Workers Compensation or non-occupational disability benefits. Such a fund may be monopolistic, i.e., purchasers of the type of insurance required must place it in the state fund; or it may be competitive, i.e., an alternative to private insurance if the purchaser desires to use it.

## Riverside Community College District

Appendix F - Glossary of Actuarial Terms

## Statutory Accounting Principles (SAP)

Those principles required by statute that must be followed by an insurance company or other similar entity when submitting its financial statement to the state insurance department. Such principles differ from (GAAP) in some important respects. For one thing SAP requires that expenses must be recorded immediately and cannot be deferred to track with premiums as they are earned and taken into revenue.

## Unallocated Loss Adjustment Expenses

Unallocated loss adjustment expenses (ULAE) are the indirect expenses to settle claims. These expenses are primarily administration and claims handling expenses.

Accounting standards require that ULAE be included in financial statements and that they be calculated by actuarial methods.


[^0]:    The amounts above reflect aggregate reinsurance.

