

**MISSISSIPPI PREPAID AFFORDABLE COLLEGE  
TUITION PROGRAM**

**ACTUARIAL VALUATION  
AND REPORT**

**JUNE 30, 2012**





Bryan, Pendleton, Swats & McAllister, LLC  
A Wells Fargo Company

September 4, 2012

Board of Directors  
Mississippi Prepaid Affordable College Tuition Program  
State Treasury Department  
501 North West Street, Suite 1101A  
Jackson, MS 39201

To the Board:

The attached report summarizes the actuarial valuation of the Mississippi Prepaid Affordable College Tuition Program (“the Program”) as of June 30, 2012. The valuation compares the value of the assets of the prepaid program to the value of expected future tuition payments to beneficiaries. The following pages summarize the actuarial valuation of the trust fund as of June 30, 2012.

A comparison of the assets and liabilities of the trust fund shows that as of June 30, 2012 there remains a deficit of about \$94.4 million.

Our calculations were based on data furnished by InTuition Solutions, Inc. We have not audited the data and we cannot certify as to the accuracy or completeness of the data supplied. Our calculations are based on the actuarial valuation assumptions, chosen by the Board, as presented in this report.

The actuarial valuation summarized in this report has been performed using generally accepted actuarial principles and is based on actuarial assumptions, each of which we consider to be reasonable (taking into account the experience of the plan and reasonable future expectations). It is our opinion that the results fully and fairly disclose the actuarial position of the plan as of the valuation date. The undersigned is an actuary at BPS&M, a member of the American Academy of Actuaries, and has met the Qualification Standards of the American Academy of Actuaries to render actuarial opinions herein.

Sincerely,

Mike Brister  
Fellow, Society of Actuaries  
Principal

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**Valuation Results**

As of June 30, 2012 the Program has an unfunded liability of about \$94.4 million. In other words, the value of expected liabilities of the trust exceeds the value of assets, including the value of future payments by contract purchasers, by \$94.4 million. The liability amounts are based on actuarial assumptions chosen by the Board. The Program’s records administrator, InTuition Solutions, Inc., provided us with information relating to contracts in place as of June 30, 2012. Program staff provided us with information relating to assets and investment returns.

As shown in Appendix A, on a funded percentage basis, the plan is 76.8% funded. This compares to a funded percentage of 83.3% as of June 30, 2011. This decrease in the funded percentage is due to lower than assumed return on assets and higher than assumed tuition inflation. The return on assets was 0.6% (less than the assumed 7.8%). The increase in weighted average tuition for four-year universities and colleges was 8.6% (above the assumed 6.5%). The increase in weighted average tuition for junior and community colleges was 2.5% (less than the assumed 6.0%).

**Future Cash Flows**

We have analyzed the projected cash flows from the contracts in the plan as of June 30, 2012. Based on the assumed rate of investment return of 7.8% and the assumed rate of tuition inflation (6.5% for universities and colleges, 6.0% for junior and community colleges), we estimate that the required payments from the trust fund for existing contracts will exceed the asset balance, creating a cash deficit, beginning in the fiscal year ending June 30, 2025. A table summarizing our projected results is shown in Appendix B.

**Contract Sales**

As of June 30, 2012 there were 22,293 participants enrolled in the Program. This compares to 21,218 participants in the Program as of June 30, 2011.

The majority of the current contracts are for four-year university (12,294 contracts or 55%). There were also 4,481 two-year junior college plus two-year university contracts (20% of the total) and 1,274 two-year junior college contracts (6% of the total). The other 4,244, or 19% of the contracts, are dispersed across the remaining contract types.

**Weighted Average Tuition**

The Weighted Average Tuition (“WAT”) is the average of tuition and fees for in-state residency at Mississippi colleges and universities weighted in proportion to the number of Mississippi resident students attending each of the schools.

WAT for four-year universities is \$6,145 for the fall of 2012, an increase of 8.6% over the WAT of \$5,659 in the fall of 2011.

WAT for junior colleges is \$2,230 for the fall of 2012, an increase of 2.5% over the WAT of \$2,175 in the fall of 2011.

**Actuarial Assumptions**

Tuition increases are assumed to be 6.5% per year for all future years at universities, and 6.0% per year for all future years at junior colleges. Investments are assumed to return 7.8% per year for all future years. These assumptions, the other assumptions and the methodology are described more fully in the body of this report.

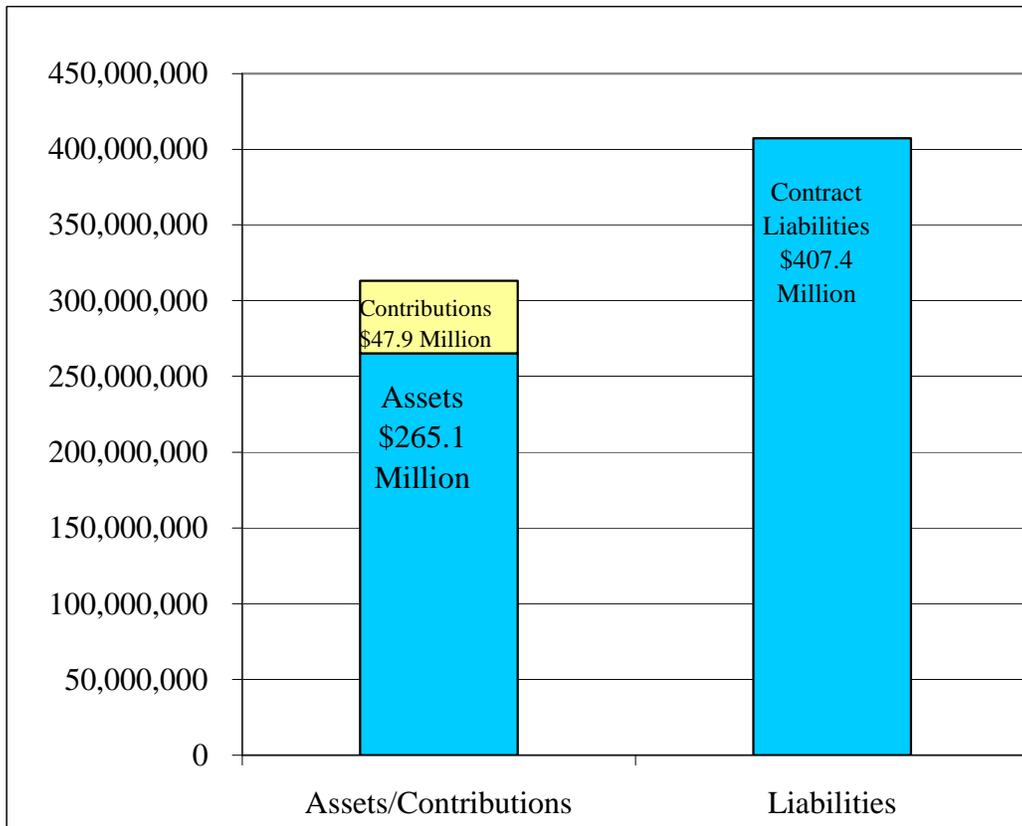
**Yearly Comparison of Selected Plan Year Information**

|                                       | <b>Plan Year</b> |                 |                 |
|---------------------------------------|------------------|-----------------|-----------------|
|                                       | 06/30/2010       | 06/30/2011      | 06/30/2012      |
| Number of Contracts                   | 21,257           | 21,218          | 22,293          |
| Present Value of Contract Liabilities | \$ 344,788,063   | \$ 371,117,670  | \$ 407,454,351  |
| Present Value of Future Contributions | 48,407,172       | 47,609,671      | 47,879,884      |
| Market Value of Assets                | 211,641,934      | 261,485,358     | 265,125,878     |
| Funded Ratio                          | 75.4%            | 83.3%           | 76.8%           |
| Surplus/(Deficit)                     | \$ (84,738,957)  | \$ (62,022,641) | \$ (94,448,589) |

## Funded Status

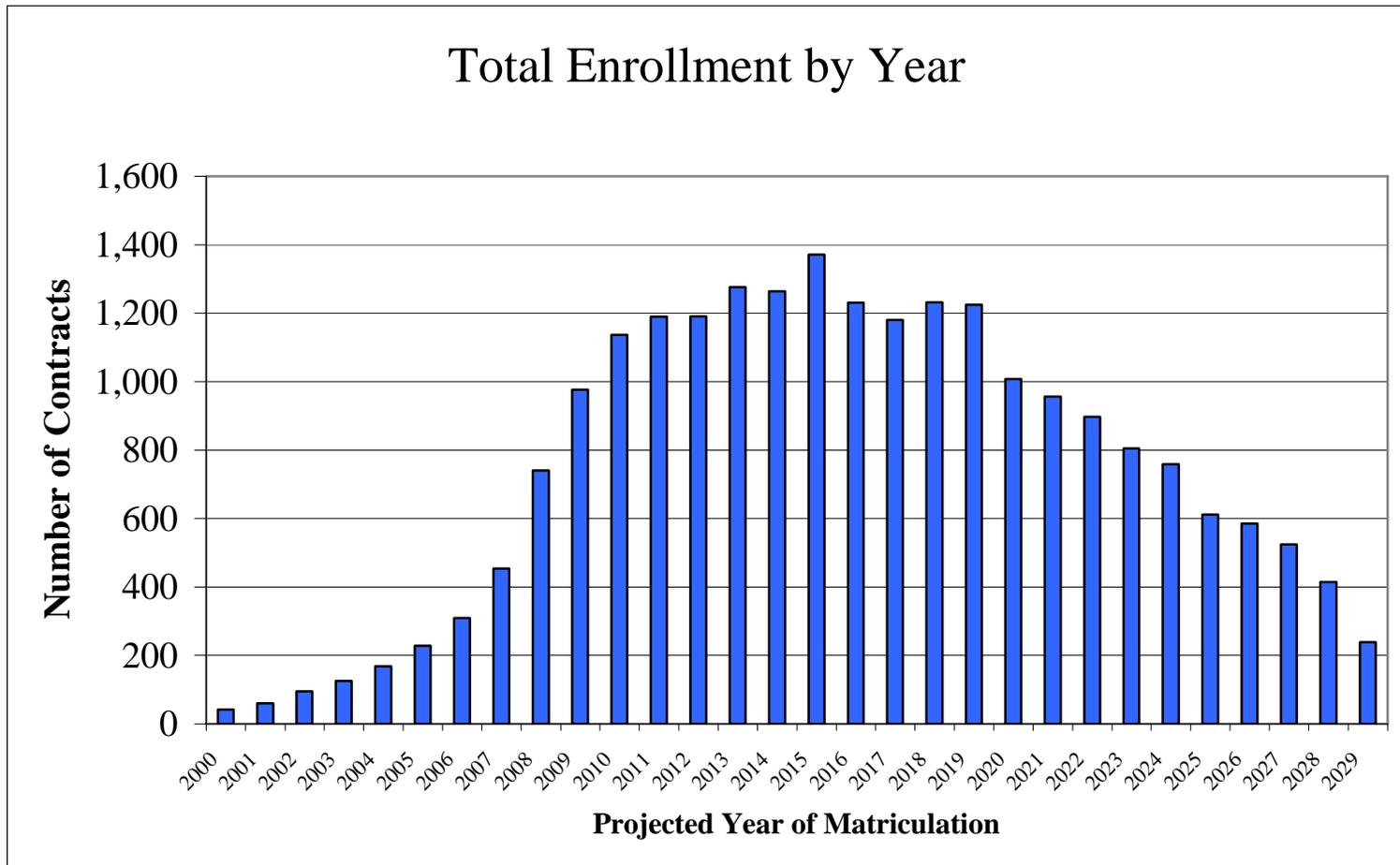
As of June 30, 2012 the expected liabilities of the Program exceeds the value of the assets of the Program (including the value of future payments by contract purchasers) by \$94.4 million. The funded ratio, assets divided by liabilities, is 76.8%, compared to 83.3% a year ago. The assumptions used to perform the actuarial valuation of the fund are described later in this report. The primary assumptions are:

|                   |   |
|-------------------|---|
| Tuition increases | 6.5% per year for four-year universities<br>6.0% per year for junior colleges |
| Investment return | 7.8% per year   |

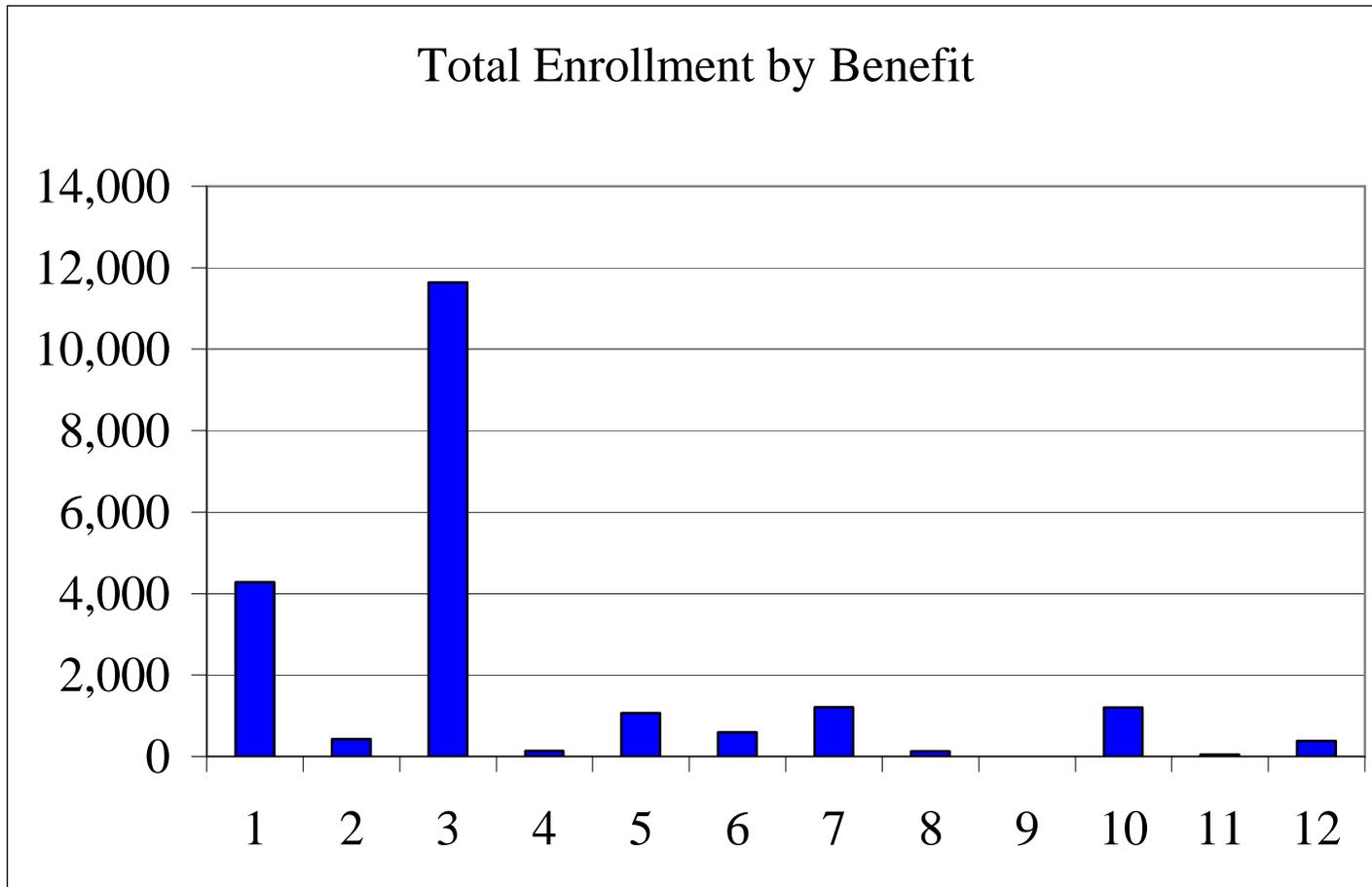


## Contract Sales

Contracts can be purchased for a wide range of ages from newborn through high school senior. The chart below illustrates, based on current participation, the total number of active contracts by expected year of college or university matriculation.



Contracts can be purchased for a variety of plans, from one year to five years of tuition and for junior college, four-year university, or various combinations thereof. The chart below illustrates the total number of current enrollees by type of contract.



| Type of Contract        | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>11</u> | <u>12</u> |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| Years Junior College    | 2        | 1        | 0        | 0        | 0        | 0        | 2        | 1        | 1        | 0         | 1         | 2         |
| Years Four-Year College | 2        | 3        | 4        | 3        | 2        | 1        | 0        | 0        | 1        | 5         | 4         | 3         |

## Historic Tuition/Fee Increases

The average tuition for four-year universities is assumed to increase 6.5% per year. The average tuition for junior and community colleges is 6.0% per year. The chart below illustrates the actual increases over the last twenty years compared to that assumption.

### HISTORY OF TUITION INCREASES

#### Four Year Colleges and Universities

#### Junior and Community Colleges

| Fiscal Year Ending | Average Tuition/Fees | Annual Increase | Weighted Average Tuition | Annual Increase | Average Tuition/Fees | Annual Increase | Weighted Average Tuition | Annual Increase |
|--------------------|----------------------|-----------------|--------------------------|-----------------|----------------------|-----------------|--------------------------|-----------------|
| 1994               | 2,317                | 0.13%           |                          |                 | 942                  | 15.16%          |                          |                 |
| 1995               | 2,371                | 2.33%           |                          |                 | 938                  | -0.42%          |                          |                 |
| 1996               | 2,399                | 1.18%           |                          |                 | 938                  | 0.00%           |                          |                 |
| 1997               | 2,426                | 1.13%           |                          |                 | 953                  | 1.60%           |                          |                 |
| 1998               | 2,513                | 3.59%           | 2,501                    |                 | 960                  | 0.73%           |                          |                 |
| 1999               | 2,764                | 9.99%           | 2,570                    | 2.76%           | 971                  | 1.15%           |                          |                 |
| 2000               | 2,764                | 0.00%           | 2,862                    | 11.36%          | 1,015                | 4.53%           |                          |                 |
| 2001               | 2,864                | 3.62%           | 2,962                    | 3.49%           | 1,083                | 6.70%           |                          |                 |
| 2002               | 3,294                | 15.01%          | 3,408                    | 15.06%          | 1,283                | 18.47%          |                          |                 |
| 2003               | 3,578                | 8.62%           | 3,716                    | 9.04%           | 1,395                | 8.73%           | 1,392                    |                 |
| 2004               | 3,599                | 0.59%           | 3,747                    | 0.83%           | 1,411                | 1.15%           | 1,417                    | 1.80%           |
| 2005               | 3,850                | 6.97%           | 3,988                    | 6.43%           | 1,561                | 10.63%          | 1,571                    | 10.87%          |
| 2006               | 4,037                | 4.86%           | 4,179                    | 4.79%           | 1,692                | 8.39%           | 1,677                    | 6.75%           |
| 2007               | 4,295                | 6.39%           | 4,445                    | 6.35%           | 1,712                | 1.18%           | 1,696                    | 1.13%           |
| 2008               | 4,563                | 6.24%           | 4,758                    | 7.05%           | 1,726                | 0.82%           | 1,712                    | 0.94%           |
| 2009               | 4,742                | 3.92%           | 4,936                    | 3.74%           | 1,766                | 2.32%           | 1,757                    | 2.63%           |
| 2010               | 4,742                | 0.00%           | 4,947                    | 0.22%           | 1,835                | 3.91%           | 1,824                    | 3.81%           |
| 2011               | 5,067                | 6.85%           | 5,288                    | 6.89%           | 2,114                | 15.20%          | 2,111                    | 15.73%          |
| 2012               | 5,418                | 6.93%           | 5,659                    | 7.02%           | 2,174                | 2.84%           | 2,175                    | 3.03%           |
| 2013               | 5,906                | 9.01%           | 6,145                    | 8.59%           | 2,234                | 2.76%           | 2,230                    | 2.53%           |

#### Compound Annual Increase

|          |       |  |       |       |
|----------|-------|--|-------|-------|
| 20 Years | 4.80% |  |       | 5.15% |
| 15 Years | 5.86% |  | 6.18% | 5.79% |
| 10 Years | 5.14% |  | 5.16% | 4.82% |
| 5 Years  | 5.30% |  | 5.25% | 5.30% |

## **Sensitivity of Results to Variations in Experience**

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The table below was prepared to illustrate how variations in future experience will affect the current surplus/ (deficit) of the Program. The Program surplus/ (deficit) as of June 30, 2012 is (\$94.4) million under the base set of assumptions as stated in this report.

### **Variations in Tuition**

|  |                                      |
|--|--------------------------------------|
| Baseline Assumptions   | Surplus/(Deficit): (\$94.4) million  |
| University tuition inflation higher all years by 25 basis points | Surplus/(Deficit): (\$101.2) million |
| University tuition lower in all years by 25 basis points         | Surplus/(Deficit): (\$87.8) million  |
| Bias Load is 4% rather than 3%                                   | Surplus/(Deficit): (\$98.4) million  |
| Bias Load is 2% rather than 3%                                   | Surplus/(Deficit): (\$90.5) million  |

### **Variations in Investment Income**

|   |                                      |
|---|--------------------------------------|
| Investment income rate lower in all years by 25 basis points  | Surplus/(Deficit): (\$101.2) million |
| Investment income rate higher in all years by 25 basis points | Surplus/(Deficit): (\$87.9) million  |

### **Break Even Interest Rate**

An investment earnings rate of 12.22% is required for the Program to satisfy all future benefits and expenses in the projection period if other experience is consistent with the actuarial assumptions. This rate is greater than last year's result of 10.71%.

### **Break Even Inflation Rates**

Maintaining the current relationship that the university inflation rate is 50 basis points greater than the junior college inflation rate, a 2.31% university inflation rate and a 1.81% junior college inflation rate are required for the Program to satisfy all future benefits and expenses in the projection period if other experience is consistent with the actuarial assumptions. These equivalent rates are less than last year's results.

**VALUATION ASSUMPTIONS AND METHODS**

**Actuarial Assumptions**

The assumptions used in the actuarial valuation of the Program are described below. These assumptions were developed by the Board.

**Tuition Increases:** The Weighted Average Tuition for four-year universities is assumed to increase at 6.5% per year. The Weighted Average Tuition for junior colleges is assumed to increase at 6.0% per year.

**Investment Return:** Invested assets are assumed to earn 7.8% per year. The Program is exempt from Federal Income Tax.

**Expenses:** Expenses net of fees collected assumed to be 5% of tuition payments.

**Enrollment of MPACT Beneficiaries:** Beneficiaries are assumed to attend college or university full time commencing with the expected matriculation date (the Fall following high school graduation). Further, it is assumed that the contract beneficiaries will not attend the available colleges and universities in the same proportion as the headcount information that was used to determine the 2012/2013 Weighted Average Tuition, but rather attend on average more expensive schools than those included in the aforementioned information. Accordingly, a 3% “bias load” was added to the university Weighted Average Tuition to allow for anti-selection toward matriculation at schools with higher tuition.

**Contract Cancellations:** It was assumed that there would be no contract cancellations.

**Deaths and Disability:** Mortality and disability decrements were not used.

**Actuarial Methods**

The actuarial valuation of the Program is based on projections of tuition and required fees expected to be paid on behalf of Program beneficiaries, and on amounts paid into the Program from contract installment payments. This actuarial valuation is based on the data described and corresponding sources of data described below.

| <u>Data</u>                                       | <u>Source</u>                               |
|---|---|
| Tuition & required fees at four-year universities | Mississippi Institutions of Higher Learning |
| Headcount at four-year universities               | Mississippi Institutions of Higher Learning |
| MPACT active contract inventory                   | InTuition Solutions, Inc.                   |
| Tuition & required fees at junior colleges        | State Board of Community & Junior Colleges  |
| Headcount at junior colleges                      | State Board of Community & Junior Colleges  |

**MPACT Beneficiaries (Appendix C):** The future payments expected to be made to and from the trust fund have been determined based on the number of contracts shown in Appendix C. This information is based on actual enrollment in the program as provided by the above sources.

## VALUATION ASSUMPTIONS AND METHODS

**Weighted Average Tuition: Four-Year Universities (Appendix D):** The Weighted Average Tuition for public four-year universities in Mississippi is the average of tuition and required fees at each of the four-year universities, weighted by full-time equivalent resident enrollment headcount at each university.

Resident enrollment headcount is the number of undergraduate students eligible to pay in-state tuition at Mississippi four-year universities. The full-time headcounts as of Fall 2011 were used to determine the Weighted Average Tuition.

**Weighted Average Tuition: Junior and Community Colleges (Appendix E):** The Weighted Average Tuition for junior and community colleges was determined using the same methodology as for four-year universities, except the weighting was based on the average full-time headcounts at each college for the Fall 2010 and Fall 2011 semesters.

**Annual Increases in Weighted Average Tuition (Appendix F):** The one-year increase in Weighted Average Tuition is shown along with the actual required tuition and fees for all applicable schools. The Weighted Average Tuition rates are used to calculate the prices charged to new contracts for the upcoming year.

**Comparison of Junior College and 4-Year University Liabilities (Appendix G):** A comparison of the liabilities attributable to Junior Colleges and 4-year Universities is shown along with the total liabilities of the plan.

## Appendix A

## Funded Status

|   |              |
|---|--------------|
| Market Value of Assets  | 265,125,878  |
| Actuarial Present Value of future contract installment payments | 47,879,884   |
| Subtotal  | 313,005,762  |
| Actuarial present value of future payments of tuition and fees  | 407,429,782  |
| Surplus/(Deficit)   | (94,424,020) |
| Funded Status   | 76.82%       |

## Appendix B

## Projected Future Cash Flows

| Plan Year<br>Beginning | Market Value<br>BOY | Projected<br>Tuition<br>Payments | Projected<br>Contract<br>Payments | Investment<br>Income | Market Value<br>EOY |
|------------------------|---------------------|----------------------------------|-----------------------------------|----------------------|---------------------|
| 2012                   | 265,125,878         | (24,496,542)                     | 11,214,564                        | 20,161,821           | 272,005,721         |
| 2013                   | 272,005,721         | (30,733,382)                     | 9,953,932                         | 20,406,048           | 271,632,319         |
| 2014                   | 271,632,319         | (35,748,692)                     | 8,503,234                         | 20,124,748           | 264,511,609         |
| 2015                   | 264,511,609         | (43,258,758)                     | 7,158,088                         | 19,223,979           | 247,634,919         |
| 2016                   | 247,634,919         | (35,266,706)                     | 5,656,423                         | 18,160,723           | 236,185,359         |
| 2017                   | 236,185,359         | (36,006,866)                     | 4,422,873                         | 17,190,682           | 221,792,048         |
| 2018                   | 221,792,048         | (38,651,803)                     | 3,728,058                         | 15,937,754           | 202,806,056         |
| 2019                   | 202,806,056         | (39,681,074)                     | 3,103,166                         | 14,392,334           | 180,620,482         |
| 2020                   | 180,620,482         | (40,579,225)                     | 2,469,971                         | 12,602,137           | 155,113,365         |
| 2021                   | 155,113,365         | (41,358,132)                     | 1,859,778                         | 10,558,407           | 126,173,417         |
| 2022                   | 126,173,417         | (41,240,972)                     | 1,392,009                         | 8,287,417            | 94,611,871          |
| 2023                   | 94,611,871          | (39,777,367)                     | 1,097,085                         | 5,871,195            | 61,802,784          |
| 2024                   | 61,802,784          | (38,946,004)                     | 808,224                           | 3,333,244            | 26,998,248          |
| 2025                   | 26,998,248          | (37,613,832)                     | 636,866                           | 663,762              | (9,314,956)         |
| 2026                   | (9,314,956)         | (35,937,981)                     | 444,379                           | (2,110,817)          | (46,919,376)        |
| 2027                   | (46,919,376)        | (34,748,994)                     | 268,499                           | (5,004,451)          | (86,404,321)        |
| 2028                   | (86,404,321)        | (32,032,605)                     | 118,211                           | (7,984,198)          | (126,302,914)       |
| 2029                   | (126,302,914)       | (27,964,411)                     | 5,046                             | (10,942,042)         | (165,204,321)       |
| 2030                   | (165,204,321)       | (20,593,812)                     | -                                 | (13,689,096)         | (199,487,229)       |
| 2031                   | (199,487,229)       | (12,732,128)                     | -                                 | (16,056,557)         | (228,275,914)       |
| 2032                   | (228,275,914)       | (5,843,124)                      | -                                 | (18,033,403)         | (252,152,441)       |
| 2033                   | (252,152,441)       | (902,576)                        | -                                 | (19,703,091)         | (272,758,108)       |

**APPENDICES**

| Projected Enrollment Year | Appendix C - Type of Contract |       |           |           |           |           |              |              |       |           |       |       | Total Enrollment by Yr | Percent of Total |
|---------------------------|-------------------------------|-------|-----------|-----------|-----------|-----------|--------------|--------------|-------|-----------|-------|-------|------------------------|------------------|
|                           | 2 + 2                         | 1 + 3 | 4 Yr Univ | 3 Yr Univ | 2 Yr Univ | 1 Yr Univ | 2 Yr Jr Coll | 1 Yr Jr Coll | 1 + 1 | 5 Yr Univ | 1 + 4 | 2 + 3 |                        |                  |
| 2000                      | 9                             | 3     | 26        | -         | 1         | 1         | 1            | -            | -     | 1         | -     | -     | 42                     | 0.19%            |
| 2001                      | 14                            | 1     | 36        | 1         | 3         | -         | 4            | 1            | -     | -         | -     | -     | 60                     | 0.27%            |
| 2002                      | 20                            | 4     | 56        | -         | 2         | 2         | 10           | 1            | -     | -         | -     | -     | 95                     | 0.43%            |
| 2003                      | 27                            | 4     | 78        | 1         | 1         | 1         | 9            | -            | 2     | 1         | 1     | -     | 125                    | 0.56%            |
| 2004                      | 26                            | 4     | 112       | 1         | 4         | 4         | 12           | -            | -     | 3         | -     | 2     | 168                    | 0.75%            |
| 2005                      | 38                            | 6     | 141       | 1         | 9         | 6         | 17           | 1            | -     | 5         | 2     | 2     | 228                    | 1.02%            |
| 2006                      | 59                            | 10    | 180       | 3         | 10        | 11        | 22           | 1            | -     | 7         | -     | 6     | 309                    | 1.39%            |
| 2007                      | 79                            | 8     | 282       | 4         | 12        | 11        | 25           | 2            | -     | 21        | 4     | 6     | 454                    | 2.04%            |
| 2008                      | 143                           | 13    | 499       | 2         | 16        | 8         | 31           | 2            | -     | 19        | 2     | 5     | 740                    | 3.32%            |
| 2009                      | 169                           | 32    | 620       | 11        | 41        | 25        | 39           | 1            | -     | 29        | 1     | 8     | 976                    | 4.38%            |
| 2010                      | 239                           | 30    | 654       | 12        | 50        | 30        | 64           | 1            | -     | 41        | 4     | 12    | 1,137                  | 5.10%            |
| 2011                      | 215                           | 26    | 702       | 8         | 60        | 47        | 59           | 9            | -     | 51        | -     | 13    | 1,190                  | 5.34%            |
| 2012                      | 260                           | 26    | 659       | 8         | 70        | 38        | 56           | 9            | -     | 51        | 1     | 13    | 1,191                  | 5.34%            |
| 2013                      | 294                           | 35    | 669       | 7         | 81        | 30        | 85           | 9            | -     | 51        | 1     | 14    | 1,276                  | 5.72%            |
| 2014                      | 257                           | 30    | 683       | 11        | 63        | 41        | 95           | 8            | -     | 54        | 1     | 21    | 1,264                  | 5.67%            |
| 2015                      | 294                           | 41    | 772       | 7         | 63        | 41        | 81           | 7            | -     | 50        | 1     | 14    | 1,371                  | 6.15%            |
| 2016                      | 259                           | 22    | 682       | 7         | 62        | 36        | 71           | 12           | -     | 51        | 3     | 26    | 1,231                  | 5.52%            |
| 2017                      | 250                           | 27    | 598       | 8         | 75        | 26        | 69           | 7            | -     | 84        | 4     | 32    | 1,180                  | 5.29%            |
| 2018                      | 236                           | 23    | 655       | 8         | 52        | 43        | 74           | 7            | -     | 104       | 5     | 25    | 1,232                  | 5.53%            |
| 2019                      | 235                           | 25    | 650       | 7         | 68        | 25        | 75           | 6            | -     | 103       | 3     | 28    | 1,225                  | 5.49%            |
| 2020                      | 232                           | 10    | 517       | 4         | 51        | 29        | 48           | 10           | -     | 69        | 5     | 33    | 1,008                  | 4.52%            |
| 2021                      | 229                           | 9     | 443       | 5         | 63        | 36        | 57           | 5            | -     | 85        | 2     | 22    | 956                    | 4.29%            |
| 2022                      | 172                           | 9     | 493       | 3         | 60        | 20        | 42           | 4            | -     | 71        | 1     | 22    | 897                    | 4.02%            |
| 2023                      | 149                           | 9     | 429       | 2         | 42        | 26        | 61           | 7            | -     | 64        | -     | 16    | 805                    | 3.61%            |
| 2024                      | 149                           | 7     | 406       | 6         | 34        | 15        | 35           | 11           | -     | 72        | 1     | 23    | 759                    | 3.40%            |
| 2025                      | 118                           | 8     | 309       | 6         | 34        | 24        | 31           | 5            | -     | 53        | -     | 23    | 611                    | 2.74%            |
| 2026                      | 107                           | 6     | 290       | 5         | 38        | 17        | 38           | 7            | -     | 65        | 1     | 11    | 585                    | 2.62%            |
| 2027                      | 83                            | 7     | 302       | 1         | 39        | 13        | 29           | 4            | -     | 39        | 1     | 6     | 524                    | 2.35%            |
| 2028                      | 74                            | 2     | 221       | 2         | 35        | 7         | 27           | -            | -     | 37        | 2     | 8     | 415                    | 1.86%            |
| 2029                      | 45                            | 2     | 130       | 3         | 7         | 4         | 7            | 3            | -     | 32        | -     | 6     | 239                    | 1.07%            |
|                           | 4,481                         | 439   | 12,294    | 144       | 1,146     | 617       | 1,274        | 140          | 2     | 1,313     | 46    | 397   | 22,293                 |                  |
|                           | 20.10%                        | 1.97% | 55.15%    | 0.65%     | 5.14%     | 2.77%     | 5.71%        | 0.63%        | 0.01% | 5.89%     | 0.21% | 1.78% | 100.00%                |                  |

## Appendix D

## Weighted Average Tuition Calculation – Four Year Universities

| <b>Institution</b>                  | <b>Full Time<br/>Equivalent<br/>Enrollment<br/>Fall 2011</b> | <b>Percentage<br/>of<br/>Total</b> | <b>Tuition and<br/>Required Fees<br/>2013 Fiscal Yr</b> |
|-------------------------------------|--|------------------------------------|---|
| Alcorn State University             | 3,464  | 5.15%                              | 5,712   |
| Delta State University              | 3,626  | 5.39%                              | 5,724   |
| Jackson State University            | 7,372  | 10.96%                             | 5,988   |
| Mississippi State University        | 17,828   | 26.51%                             | 6,264   |
| Mississippi University for Woman    | 2,207  | 3.28%                              | 5,316   |
| Mississippi Valley State University | 2,043  | 3.04%                              | 5,628   |
| University of Mississippi           | 16,734   | 24.89%                             | 6,282   |
| University of Southern Mississippi  | 13,970   | 20.78%                             | 6,336   |
| <b>Total</b>                        | <b>67,244</b>  | <b>100.00%</b>                     |   |
|                                     |  | Weighted Average                   | 6,145.00  |
|                                     |  | Semester Hour                      | 192.03  |
|                                     |  | Quarter Hour                       | 128.02  |

## Appendix E

## Weighted Average Tuition Calculation – Junior and Community Colleges

|                          | Resident<br>Enrollment<br>Fall 2010 | Resident<br>Enrollment<br>Fall 2011 | Average<br>Resident<br>Enrollment | Percent<br>of Total | Tuition and<br>Required Fees<br>2013 Fiscal Yr |
|--------------------------|-------------------------------------|-------------------------------------|-----------------------------------|---------------------|--|
| Coahoma CC               | 2,696                               | 2,676                               | 2,686                             | 3.35%               | 2,300  |
| Copiah-Lincoln CC        | 3,799                               | 3,428                               | 3,614                             | 4.51%               | 2,100  |
| East Central CC          | 2,617                               | 2,425                               | 2,521                             | 3.14%               | 2,110  |
| East Mississippi CC      | 5,306                               | 4,836                               | 5,071                             | 6.32%               | 2,450  |
| Hinds CC                 | 12,791                              | 11,800                              | 12,296                            | 15.33%              | 2,060  |
| Holmes CC                | 6,404                               | 6,172                               | 6,288                             | 7.84%               | 2,138  |
| Itawamba CC              | 7,742                               | 7,278                               | 7,510                             | 9.36%               | 2,000  |
| Jones CC                 | 5,323                               | 4,687                               | 5,005                             | 6.24%               | 2,380  |
| Meridian CC              | 3,980                               | 3,584                               | 3,782                             | 4.72%               | 2,244  |
| Mississippi Delta CC     | 3,392                               | 3,205                               | 3,299                             | 4.11%               | 2,450  |
| Mississippi Gulf CC      | 10,072                              | 9,398                               | 9,735                             | 12.14%              | 2,472  |
| Northeast Mississippi CC | 3,614                               | 3,324                               | 3,469                             | 4.33%               | 2,172  |
| Northwest Mississippi CC | 8,370                               | 7,798                               | 8,084                             | 10.08%              | 2,250  |
| Pearl River CC           | 5,014                               | 4,658                               | 4,836                             | 6.03%               | 2,300  |
| Southwest Mississippi CC | 2,096                               | 1,906                               | 2,001                             | 2.50%               | 2,090  |
| <b>Total</b>             | <b>83,216</b>                       | <b>77,175</b>                       | <b>80,196</b>                     | <b>100.00%</b>      |  |
|                          |                                     |                                     | Weighted Average                  |                     | 2,230.00                                       |
|                          |                                     |                                     | Semester Hour                     |                     | 69.69  |
|                          |                                     |                                     | Quarter Hour                      |                     | 46.46  |

**Appendix F**

| Weighted Average Tuition  | Annual Increase in Weighted Average Tuition |           | Increase | % Change |
|---------------------------|---|-----------|----------|----------|
|                           | 2011-2012                                   | 2012-2013 |          |          |
| <b>Universities</b>       |   |           |          |          |
| 1 Year                    | 5,659.00                                    | 6,145.00  | 486.00   | 8.59%    |
| 4 Year                    | 22,636.00                                   | 24,580.00 | 1,944.00 | 8.59%    |
| Per Semester Hour         | 176.84                                      | 192.03    | 15.19    | 8.59%    |
| Per Quarter Hour          | 117.90                                      | 128.02    | 10.12    | 8.58%    |
| Lump Sum Payment One Year | 6,027.00                                    | 6,544.00  | 517.00   | 8.58%    |
| <b>Community Colleges</b> |   |           |          |          |
| 1 Year                    | 2,175.00                                    | 2,230.00  | 55.00    | 2.53%    |
| 4 Year                    | 4,350.00                                    | 4,460.00  | 110.00   | 2.53%    |
| Per Semester Hour         | 67.97                                       | 69.69     | 1.72     | 2.53%    |
| Per Quarter Hour          | 45.31                                       | 46.46     | 1.15     | 2.54%    |
| Lump Sum Payment One Year | 2,306.00                                    | 2,364.00  | 58.00    | 2.52%    |

**Tuition and Required Fees Fiscal 2013**

|   | 1 Year        | 4 Year        |
|---|---------------|---------------|
| Alcorn State University                 | 5,712         | 22,848        |
| Delta State University                  | 5,724         | 22,896        |
| Jackson State University                | 5,988         | 23,952        |
| Mississippi State University            | 6,264         | 25,056        |
| Mississippi University for Women        | 5,316         | 21,264        |
| Mississippi Valley State University     | 5,628         | 22,512        |
| University of Mississippi               | 6,282         | 25,128        |
| University of Southern Mississippi      | 6,336         | 25,344        |
|   | <b>1 Year</b> | <b>2 Year</b> |
| Coahoma Community College               | 2,300         | 4,600         |
| Copiah-Lincoln Community College        | 2,100         | 4,200         |
| East Central Community College          | 2,110         | 4,220         |
| East Mississippi Community College      | 2,450         | 4,900         |
| Hinds Community College                 | 2,060         | 4,120         |
| Homes Community College                 | 2,138         | 4,276         |
| Itawamba Community College              | 2,000         | 4,000         |
| Jones Community College                 | 2,380         | 4,760         |
| Meridian Community College              | 2,244         | 4,488         |
| Mississippi Delta Community College     | 2,450         | 4,900         |
| Mississippi Gulf Community College      | 2,472         | 4,944         |
| Northeast Mississippi Community College | 2,172         | 4,344         |
| Northwest Mississippi Community College | 2,250         | 4,500         |
| Pearl River Community College           | 2,300         | 4,600         |
| Southwest Mississippi Community College | 2,090         | 4,180         |

**Appendix G**

**Present Value of Liabilities**

|   |                    |
|---|--------------------|
| Actuarial present value of liabilities for Junior Colleges      | 23,936,578         |
| Actuarial present value for liabilities for 4-Year Universities | <u>383,493,204</u> |
| Total actuarial present value for all liabilities               | 407,429,782        |