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George A. Erickcek
W.E. Upjohn Institute, erickcek@upjohn.org

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### FINAL REPORT

## Ten-Year Cost Estimation of a Proposed Lansing Promise Scholarship

George A. Erickcek W.E. Upjohn Institute for Employment Research

This report presents a 10-year cost estimation of a universal, place-based scholarship program for the City of Lansing. Cost estimates are presented for the following four scenarios:

- 1) A universal scholarship for students who reside within the City of Lansing and attend *Lansing public schools* only.
- 2) A universal scholarship for the above population plus students who reside within the City of Lansing and attend *public charter schools* located within city boundaries.
- 3) A universal scholarship for the above population plus students who reside within the City of Lansing and attend *private schools* located within city boundaries.
- 4) A universal scholarship for all students who attend Lansing Community College.

For each of the four scenarios, cost-estimates are provided for both a first-dollar scholarship program and a middle-dollar scholarship program. The first-dollar scholarship program is not means tested and is, thus, open to all eligible students in the City of Lansing. In other words, eligible students do not have to seek additional federal or private funds. The middle-dollar scholarship program would require students and their parents to complete the federal Free Application for Federal Student Aid (FAFSA) form. The scholarship would then fill the gap between federal/state financial aid and the cost of tuition.

Under all three scenarios, the scholarship program has a residency requirement which is presented below in Table 1.

**Table 1 Residency Requirement** 

| Length of Attendance | Percent of tuition and fees paid |
|----------------------|----------------------------------|
| K-12                 | 100                              |
| 1-12                 | 95                               |
| 2-12                 | 95                               |
|                      |                                  |
| 3-12                 | 95                               |
| 4-12                 | 90                               |
| 5-12                 | 85                               |
|                      |                                  |
| 6-12                 | 80                               |
| 7-12                 | 75                               |
| 8-12                 | 70                               |
|                      |                                  |
| 9-12                 | 65                               |
| 10-12                | 0                                |
| 11-12                | 0                                |
| 12                   | 0                                |

Unfortunately, due to data limitations, this analysis is based on a large number of assumptions. We believe the assumptions are reasonable and most are based on either national/statewide statistics or the experience of the Kalamazoo Promise. All assumptions used in the analysis are presented in greater detail the Appendix. The key assumptions used in the analysis are the following:

1. Although the Promise Scholarship would be available for all students residing in the City of Lansing, the analysis presented here estimates the cost of the scholarship for students attending the Lansing Public Schools or attending a charter or private school in the city. A small but unknown number of students living in the City of Lansing may live within the boundaries of a different school district. In addition, it is possible that some students who attend a charter or private school in the city may live outside the city. In addition, as will be discussed below as of the 2010–11 school year, nearly 2,800 Lansing Public School District students attend classes in surrounding school districts.

According to the U.S. Census, 18,918 children between the ages of 5 and 17 live in the City of Lansing. Total enrollment in the Lansing Public Schools, charter schools, and private schools for the 2009–10 school year was 18,209. Given that 1) nearly 2,800 district students are attending school elsewhere, 2) a small number of children are home schooled, and 3) that, unfortunately, too many students drop out of high school, it is somewhat surprising that the Lansing's public, charter, and private schools can account for 96 percent of the city's student-age population. This suggests that many of the students attending the city's private and charter schools could live outside the district. Unfortunately, we do not have any information about where the city's private- and charter-school students reside, and we have not made any adjustment for non-city students.

- 2. We assume the scholarship program will not require any minimum GPA performance in high school or any additional extra-curricular activities for the student. This would lower the cost of the program slightly, while increasing its administrative costs.
- 3. It is assumed that the scholarship will pay for all tuition and fees at any public, accredited institution in the State of Michigan. Unfortunately, we do not have any information on where college-bound Lansing graduates attend school. In this instance, we based our assumptions on the experience of Kalamazoo where, on average, 86 percent of the eligible graduates use the Promise. In addition, as shown in the Appendix, we used the Kalamazoo college selection pattern as well, except we replaced Lansing Community College for Kalamazoo Valley Community College and Central Michigan University for Western Michigan University.
- 4. The cost of tuition is forecast to increase by 6.5 percent annually during the 10-year forecast period.
- 5. The availability of the federal Pell Grant, which is currently \$5,500 per year, is means tested. We used the percentage of students taking free- and reduced-price lunches as a proxy for their eligibility for a Pell Grant. We assumed that the value of the Pell Grant will increase by 2.5 percent per year.
- 6. One of the most difficult challenges in estimating the cost of a scholarship program that has a residency requirement is estimating the length of residency for the students. Of course, individual student information is not available. In this analysis we assumed that 3.4 percent of all families in the Lansing area move in or out of the city, annually, which is (the) national average. If this migration rate is too low it would inflate the cost of the program.
- 7. In Kalamazoo, the first-dollar Kalamazoo Promise has had a significant impact on enrollments. After the first year, enrollments at Kalamazoo Public Schools increased by 12 percent from its expected level. The Kalamazoo Public Schools program was unique in that it received national attention. Other communities with a Promise Scholarship program have not experienced a similar jump in enrollment.

However, Lansing is in a unique situation itself, in that for the 2010–11 school year, 2,791 Lansing Public School District students attended out-of-district schools. It is very possible that a portion of these students would return to the Lansing Public Schools if the Promise was available. We assume that enrollment of the Lansing Public Schools would increase by three percent, annually, above the Pre-Promise Forecast (see Figure 1 below). This increase in enrollment would occur due to both an increase of students entering the system, as well as a decline in the flow of students leaving the system.

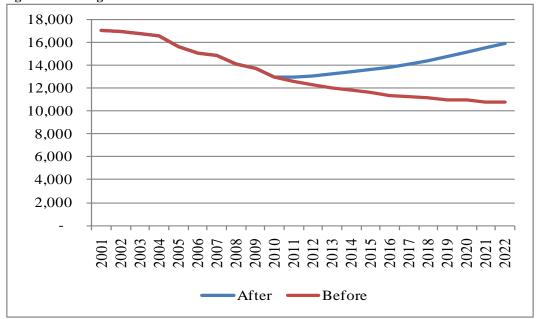


Figure 1 Lansing Public School Forecasted Enrollment Before and After Promise

- 8. Unfortunately many college students do not complete their degrees. As shown in the Appendix, we assume that only 30 percent of the students attending community college and 60 percent of the students attending a four-year university will complete their degrees.
- 9. Finally, we assume that all of the eligible scholarship students will go to college in the fall after their graduation. Of course, it is possible that the Scholarship will allow a student to wait a year or to take time off from college after they enroll in college. It is simply too complicated to model these events.

#### **Results**

Scenario One: A universal scholarship for students who reside within the City of Lansing and attend *Lansing Public Schools*.

As shown in the Table 2 below, the cost of the first-dollar scholarship available to students attending Lansing Public Schools would be approximately \$5 million during the fourth year and stay at that level during the forecast period. In the middle-dollar scenario, where students attending community college do not dip into the scholarship fund until and if they enter a four-year university in their third years, the cost of the scholarship would reach \$2.4 million in the third year and \$4.6 million in 2022.

Note that in making this forecast, we accounted for the estimated number of the city's charter school students who enter the district's high schools annually.

Table 2 Lansing Scholarship Program Available for All Students Residing in City and Attending Lansing Public Schools

| Year | <br>First dollar | Middle dollar   | Difference  |
|------|------------------|-----------------|-------------|
| 2012 | \$<br>1,281,258  | \$<br>855,696   | \$425,562   |
| 2013 | \$<br>2,186,227  | \$<br>1,535,599 | \$650,628   |
| 2014 | \$<br>3,368,659  | \$<br>2,429,446 | \$939,212   |
| 2015 | \$<br>4,563,386  | \$<br>3,364,686 | \$1,198,699 |
| 2016 | \$<br>4,397,218  | \$<br>3,296,166 | \$1,101,052 |
|      |                  |                 |             |
| 2017 | \$<br>4,618,110  | \$<br>3,473,645 | \$1,144,465 |
| 2018 | \$<br>4,778,889  | \$<br>3,618,039 | \$1,160,850 |
| 2019 | \$<br>4,847,164  | \$<br>3,698,874 | \$1,148,290 |
| 2020 | \$<br>5,381,713  | \$<br>4,140,750 | \$1,240,963 |
| 2021 | \$<br>5,587,527  | \$<br>4,337,301 | \$1,250,226 |
| 2022 | \$<br>6,011,628  | \$<br>4,684,958 | \$1,326,669 |

Scenario Two: A universal scholarship for the above population plus students who reside within the City of Lansing and attend *public charter schools* located within city boundaries.

In this scenario, students who attend public charter schools in the city and live in the city are eligible for the Promise Scholarship based upon their length of residency. The cost of this scholarship program is, of course, greater than the first scenario with the cost hitting \$5.7 million in fourth year, and nearly \$10 million in 2022, as shown in Table 3.

Finally, in preparing the middle-dollar forecast for this scenario, we assumed that the percentage of charter school students who are eligible for a Pell Grant is the same as Lansing Public School students.

Table 3 Lansing Scholarship Program Available for All Students Residing in the City of Lansing and Attending Public and Charter Schools

Year First dollar Middle dollar Difference 2012 \$1,537,648 \$1,031,812 \$505,837 2013 \$2,548,144 \$1,799,206 \$748,938 2014 \$4,164,376 \$1,160,585 \$3,003,791 2015 \$1,502,550 \$5,727,141 \$4,224,591 2016 \$5,985,196 \$4,470,676 \$1,514,520 2017 \$6,547,061 \$4,929,615 \$1,617,446 2018 \$6,982,760 \$5,297,854 \$1,684,907 2019 \$1,731,734 \$7,356,569 \$5,624,835 2020 \$8,103,379 \$6,241,345 \$1,862,034 2021 \$8,809,368 \$6,832,363 \$1,977,005 2022 \$7,518,835 \$9,632,652 \$2,113,816

# Scenario Three: A universal scholarship for the above population plus students who reside within the City of Lansing and attend *private schools* located within city boundaries

In the final and most expensive four-year university scenario, all students residing in the City of Lansing and being taught outside the home are eligible for the scholarship. In the fourth year, the cost of the scholarship increased to nearly \$8 million, and it would reach nearly \$12 million in 2022, as shown in Table 4. In preparing the cost estimate for the middle-dollar, we assumed that none of the private school students would be eligible for a Pell Grant.

Table 4 Lansing Scholarship Program Available for All Students Residing in City of Lansing and Attending Public, Charter, and Private Schools

|      | onding rabile, one | ter, and rivate beno | 020         |
|------|--------------------|----------------------|-------------|
| Year | First dollar       | Middle dollar        | Difference  |
| 2012 | \$2,139,195        | \$1,031,812          | \$1,107,383 |
| 2013 | \$3,534,973        | \$1,799,206          | \$1,735,767 |
| 2014 | \$5,701,195        | \$3,003,791          | \$2,697,404 |
| 2015 | \$7,745,139        | \$4,224,591          | \$3,520,548 |
| 2016 | \$8,065,864        | \$4,470,676          | \$3,595,189 |
|      |                    |                      |             |
| 2017 | \$8,721,851        | \$4,929,615          | \$3,792,235 |
| 2018 | \$9,191,439        | \$5,297,854          | \$3,893,585 |
| 2019 | \$9,595,461        | \$5,624,835          | \$3,970,626 |
| 2020 | \$10,371,624       | \$6,241,345          | \$4,130,280 |
| 2021 | \$11,074,816       | \$6,832,363          | \$4,242,453 |
| 2022 | \$11,957,742       | \$7,518,835          | \$4,438,906 |

# Scenario Four: A universal scholarship for all students who attend Lansing Community College

Finally, we provide a lower-cost alternative that restricts usage of the Lansing Promise to Lansing Community College. No scholarship fund would be available for the third year students transferring to a four-year university. In this scenario, we do not expect any of the Lansing Public School District's students who are currently attending classes elsewhere to switch back to the Lansing Public Schools. Table 5 shows the cost of this reduced scholarship program is only \$607,000 in the third year and \$714,000 in 2022.

In addition, because the Pell Grant covers the cost of tuition at the community colleges, the cost of the middle-dollar scholarship program is sharply reduced. We assume that 85 percent of the students attending community college will be eligible for a Pell Grant.

It is important to understand that in this scenario the scholarship is limited to only two years. It is very possible that a significant number of students entering community college will be required to attend remedial education classes, which may make it difficult for them to complete their associate's degree within two years.

Table 5 Lansing Scholarship Program for Attending Community College Available for All Students Residing in City and Attending Lansing Public, Charter, and/or Private Schools

| Year | First dollar | Middle dollar | Difference |
|------|--------------|---------------|------------|
| 2012 | \$447,487    | \$47,549      | \$399,939  |
| 2013 | \$573,575    | \$60,171      | \$513,405  |
| 2014 | \$607,755    | \$63,971      | \$543,785  |
| 2015 | \$643,964    | \$68,545      | \$575,419  |
| 2016 | \$599,372    | \$61,194      | \$538,178  |
|      |              |               |            |
| 2017 | \$632,754    | \$64,687      | \$568,067  |
| 2018 | \$654,416    | \$68,088      | \$586,328  |
| 2019 | \$640,562    | \$66,438      | \$574,124  |
| 2020 | \$669,730    | \$70,333      | \$599,396  |
| 2021 | \$688,165    | \$72,769      | \$615,396  |
| 2022 | \$713,679    | \$75,076      | \$638,603  |

### **APPENDIX**

The following describes the methodology used in estimating the costs of the proposed scholarship programs.

### **Enrollment Forecast:**

The enrollment forecasts for Lansing Public, charter, and private schools are based on a standard- survival cohort where the number of students advancing from one grade to the next is based on the five-year average rate for the period 2005 to 2010. The following are the enrollment forecasts used in the analysis.

| Table A-1 Baseline Enrollment Forecast for Lansi | g Public Schools—Before the Pro | posed Lansing Promise |
|--|---------------------------------|-----------------------|
|--|---------------------------------|-----------------------|

|          | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020   | 2021   | 2022   |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| K        | 1,253  | 1,245  | 1,237  | 1,230  | 1,222  | 1,214  | 1,207  | 1,199  | 1,192  | 1,184  | 1,177  | 1,169  | 1,162  |
| Grade 1  | 1,190  | 1,174  | 1,166  | 1,158  | 1,151  | 1,143  | 1,136  | 1,128  | 1,121  | 1,113  | 1,106  | 1,099  | 1,092  |
| Grade 2  | 1,115  | 1,087  | 1,071  | 1,064  | 1,056  | 1,049  | 1,041  | 1,034  | 1,027  | 1,020  | 1,012  | 1,005  | 998    |
| Grade 3  | 1,011  | 1,021  | 994    | 978    | 971    | 963    | 956    | 949    | 942    | 935    | 928    | 921    | 914    |
|          |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Grade 4  | 1,016  | 960    | 969    | 943    | 928    | 920    | 913    | 906    | 899    | 892    | 885    | 878    | 872    |
| Grade 5  | 977    | 953    | 898    | 907    | 881    | 867    | 860    | 853    | 846    | 839    | 832    | 826    | 819    |
| Grade 6  | 862    | 893    | 870    | 818    | 827    | 803    | 789    | 782    | 775    | 769    | 763    | 756    | 750    |
| Grade 7  | 979    | 853    | 882    | 860    | 811    | 819    | 796    | 783    | 776    | 770    | 764    | 758    | 752    |
| Grade 8  | 933    | 927    | 806    | 835    | 813    | 766    | 774    | 752    | 739    | 734    | 728    | 722    | 716    |
|          |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Grade 9  | 1,312  | 1,325  | 1,319  | 1,204  | 1,231  | 1,211  | 1,166  | 1,173  | 1,152  | 1,140  | 1,134  | 1,129  | 1,123  |
| Grade 10 | 982    | 917    | 930    | 924    | 815    | 840    | 821    | 778    | 786    | 765    | 754    | 749    | 743    |
| Grade 11 | 784    | 742    | 680    | 692    | 687    | 582    | 607    | 588    | 548    | 554    | 535    | 524    | 519    |
| Grade 12 | 599    | 533    | 494    | 437    | 448    | 443    | 346    | 369    | 352    | 314    | 320    | 302    | 292    |
|          |        |        |        |        |        |        |        |        |        |        |        |        |        |
| TOTAL    | 13,013 | 12,629 | 12,317 | 12,049 | 11,840 | 11,621 | 11,411 | 11,295 | 11,154 | 11,029 | 10,938 | 10,837 | 10,750 |

**Table A-2 Charter Schools Enrollment Forecast without the Promise** 

|              | 2010         | 2011       | 2012 | 2013 | 2014      | 2015 | 2016 | 2017 | 2018        | 2019         | 2020       | 2021     | 2022 |
|--------------|--------------|------------|------|------|-----------|------|------|------|-------------|--------------|------------|----------|------|
| K            | 340          | 352        | 365  | 379  | 393       | 407  | 422  | 437  | 453         | 470          | 487        | 505      | 524  |
| Grade 1      | 325          | 307        | 320  | 334  | 348       | 362  | 377  | 392  | 408         | 425          | 442        | 460      | 479  |
| Grade 2      | 272          | 312        | 294  | 307  | 320       | 334  | 349  | 364  | 380         | 396          | 413        | 431      | 449  |
| Grade 3      | 261          | 266        | 306  | 288  | 301       | 315  | 329  | 344  | 359         | 375          | 391        | 408      | 426  |
| Grade 4      | 243          | 264        | 269  | 310  | 291       | 304  | 318  | 333  | 348         | 364          | 380        | 397      | 414  |
| Grade 5      | 218          | 226        | 247  | 252  | 293       | 274  | 288  | 302  | 317         | 332          | 348        | 364      | 381  |
| Grade 6      | 236          | 196        | 205  | 227  | 232       | 275  | 256  | 270  | 285         | 301          | 317        | 333      | 350  |
| Grade 7      | 133          | 192        | 154  | 162  | 183       | 188  | 230  | 211  | 224         | 239          | 253        | 269      | 285  |
| Grade 8      | 102          | 102        | 158  | 121  | 129       | 149  | 154  | 193  | 175         | 188          | 202        | 216      | 231  |
| Grade 9      | 129          | 107        | 106  | 165  | 127       | 135  | 156  | 161  | 202         | 183          | 197        | 211      | 226  |
| Grade 10     | 123          | 128        | 106  | 105  | 163       | 126  | 134  | 155  | 159         | 200          | 182        | 195      | 209  |
| Grade 11     | 120          | 123        | 128  | 106  | 105       | 165  | 126  | 134  | 156         | 161          | 203        | 184      | 197  |
| Grade 12     | 130          | 123        | 126  | 131  | 108       | 107  | 169  | 129  | 138         | 160          | 165        | 209      | 189  |
| There are no | Charter High | Schools in | 0.   |      | rea shows |      |      |      | in enrollme | ent to the L | ansing pub | lic high |      |

school due to Charter School 8th grade graduates.

| TOTAL | 2.632 | 2.697 | 2.783 | 2.886 | 2 993 | 3,143 | 3,308 | 3,426 | 3,606 | 3 794 | 3,980 | 4.182 | 4 359 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IUIAL | 2,032 | 2,097 | 2,783 | 2,880 | 2,993 | 3,143 | 3,308 | 3,420 | 3,000 | 3,794 | 3,980 | 4,182 | 4,339 |

Table A-3 Enrollment Forecast for the Private K-12 Schools in the City of Lansing

|          | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | 2021  | 2022  |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| K        | 193   | 185   | 176   | 169   | 161   | 154   | 147   | 141   | 135   | 129   | 123   | 117   | 112   |
| Grade 1  | 163   | 161   | 153   | 146   | 138   | 131   | 125   | 118   | 112   | 106   | 101   | 95    | 90    |
| Grade 2  | 164   | 153   | 152   | 145   | 137   | 131   | 124   | 118   | 112   | 106   | 100   | 95    | 90    |
| Grade 3  | 163   | 155   | 145   | 144   | 137   | 130   | 123   | 117   | 111   | 106   | 100   | 95    | 90    |
|          |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Grade 4  | 173   | 160   | 152   | 143   | 142   | 135   | 129   | 123   | 117   | 111   | 106   | 101   | 96    |
| Grade 5  | 192   | 175   | 162   | 155   | 146   | 145   | 139   | 132   | 126   | 121   | 115   | 110   | 105   |
| Grade 6  | 183   | 181   | 165   | 152   | 146   | 137   | 136   | 130   | 124   | 118   | 113   | 107   | 102   |
| Grade 7  | 175   | 166   | 164   | 148   | 136   | 130   | 121   | 120   | 114   | 108   | 103   | 98    | 93    |
| Grade 8  | 180   | 171   | 163   | 161   | 145   | 134   | 128   | 119   | 119   | 113   | 107   | 102   | 97    |
|          |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Grade 9  | 180   | 178   | 169   | 162   | 160   | 145   | 134   | 128   | 120   | 119   | 114   | 108   | 103   |
| Grade 10 | 193   | 181   | 180   | 171   | 164   | 162   | 147   | 136   | 130   | 123   | 122   | 116   | 111   |
| Grade 11 | 179   | 179   | 167   | 166   | 158   | 150   | 149   | 134   | 124   | 118   | 110   | 109   | 104   |
| Grade 12 | 213   | 185   | 185   | 173   | 172   | 163   | 156   | 154   | 139   | 128   | 123   | 115   | 114   |
| Total    | 2,349 | 2,230 | 2,134 | 2,034 | 1,942 | 1,847 | 1,757 | 1,671 | 1,583 | 1,506 | 1,436 | 1,370 | 1,308 |

Table A-4 Enrollment Forecast for the Lansing Public Schools with the Lansing Promise

|          | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020   | 2021   | 2022   |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| K        | 1,253  | 1,283  | 1,313  | 1,344  | 1,376  | 1,409  | 1,442  | 1,477  | 1,512  | 1,546  | 1,583  | 1,621  | 1,659  |
| Grade 1  | 1,190  | 1,209  | 1,239  | 1,270  | 1,301  | 1,334  | 1,367  | 1,400  | 1,435  | 1,469  | 1,505  | 1,542  | 1,580  |
| Grade 2  | 1,115  | 1,121  | 1,140  | 1,169  | 1,200  | 1,232  | 1,265  | 1,298  | 1,332  | 1,366  | 1,401  | 1,438  | 1,475  |
| Grade 3  | 1,011  | 1,051  | 1,058  | 1,076  | 1,106  | 1,137  | 1,168  | 1,201  | 1,234  | 1,267  | 1,302  | 1,338  | 1,374  |
| Grade 4  | 1,016  | 990    | 1,028  | 1,036  | 1,055  | 1,084  | 1,115  | 1,147  | 1,180  | 1,212  | 1,247  | 1,282  | 1,318  |
| Grade 5  | 977    | 982    | 957    | 993    | 1,002  | 1,020  | 1,049  | 1,080  | 1,112  | 1,144  | 1,178  | 1,212  | 1,247  |
| Grade 6  | 862    | 919    | 925    | 902    | 936    | 945    | 962    | 990    | 1,021  | 1,051  | 1,083  | 1,116  | 1,149  |
| Grade 7  | 979    | 882    | 933    | 941    | 919    | 950    | 960    | 977    | 1,004  | 1,033  | 1,064  | 1,095  | 1,127  |
| Grade 8  | 933    | 955    | 863    | 909    | 918    | 897    | 926    | 937    | 953    | 979    | 1,008  | 1,038  | 1,069  |
| Grade 9  | 1,312  | 1,365  | 1,387  | 1,300  | 1,341  | 1,351  | 1,331  | 1,359  | 1,369  | 1,385  | 1,411  | 1,439  | 1,469  |
| Grade 10 | 982    | 947    | 995    | 1,018  | 936    | 973    | 983    | 965    | 991    | 1,001  | 1,017  | 1,042  | 1,069  |
| Grade 11 | 784    | 766    | 731    | 777    | 800    | 722    | 755    | 766    | 749    | 773    | 783    | 799    | 823    |
| Grade 12 | 599    | 551    | 532    | 500    | 541    | 564    | 493    | 521    | 532    | 516    | 538    | 548    | 563    |
| TOTAL    | 13,013 | 13,019 | 13,103 | 13,236 | 13,432 | 13,618 | 13,818 | 14,118 | 14,424 | 14,744 | 15,120 | 15,509 | 15,923 |

Because the generosity of the proposed scholarship is dependent upon the student's length of residency in the City of Lansing, it is necessary to estimate the annual migration rate of students in the city. According to the U.S. Census American Community Survey, on average, 3.4 percent of all families move in or out of a community annually.

Currently the graduation rate of Lansing public schools is 60.8 percent. Because of the availability of the Promise Scholarship, we modeled that the District's graduation rate would improve to nearly 64 percent by 2022. Based on the experience of the Kalamazoo Promise, we assumed that 84 percent of the eligible graduates take advantage of the Promise. In other words, 16 percent of the Lansing graduates who are eligible for the Promise, are assumed to either not attend college or choose to attend a private and/or out-of-state school.

The cost of the scholarship program depends upon which universities and colleges the eligible graduate attends. The following estimate is based on the history of the Kalamazoo Promise graduates with the modification of switching Lansing Community College for Kalamazoo Valley Community College and Central Michigan University for Western Michigan University. This was necessary because we could not find any information on where Lansing graduates plan to attend college.

The table below lists the major assumptions used in the model to forecast current and future student success in completing college and using the proposed Lansing Promise.

Of those going to a two-year community college, 33 percent (the national average) go on to a four-year school. At the same time, we are assuming that 85 percent of the students going to the community college are eligible for Pell Grants. We also assume that 35 percent of the students

going on to a four-year university are eligible for a Pell Grant. Currently, 78 percent of the students in the Lansing Public Schools are eligible for free and reduced-price lunch.

Finally, the college completion rates are based on IPEDS data.

**Table A-5 Model Assumptions** 

|   |           | Ke       | ey Assun | ptions    |           |         |      |      |      |      |      |
|---|-----------|----------|----------|-----------|-----------|---------|------|------|------|------|------|
|   | 2012      | 2013     | 2014     | 2015      | 2016      | 2017    | 2018 | 2019 | 2020 | 2021 | 2022 |
| Graduation rate of 9th grader   | 60.8      | 61.1     | 61.4     | 61.7      | 62.0      | 62.3    | 62.6 | 62.9 | 63.2 | 63.5 | 63.8 |
| Percent attending promise eligible universities and colleges                      | 84.0      | 84.0     | 84.0     | 84.0      | 84.0      | 84.0    | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 |
| Percent of community college students   |           |          | 33.0     | 33.0      | 33.0      | 33.0    | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 |
| going on to a four-year university  |           |          |          |           |           |         |      |      |      |      |      |
| Co  | llege and | Universi | ity Comp | letion Ra | ite Assur | nptions |      |      |      |      |      |
| Associate's Degree  |           |          |          |           |           |         |      |      |      |      |      |
| Complete the two-year program   | 30.0      | 30.5     | 31.0     | 31.5      | 32.0      | 32.5    | 33.0 | 33.5 | 34.0 | 34.5 | 35.0 |
| Bachelor's Degree   |           |          |          |           |           |         |      |      |      |      |      |
| Attending second year   | 70.0      | 70.5     | 71.0     | 71.5      | 72.0      | 72.5    | 73.0 | 73.5 | 74.0 | 74.5 | 75.0 |
| Attending third year  | 65.0      | 65.5     | 66.0     | 66.5      | 67.0      | 67.5    | 68.0 | 68.5 | 69.0 | 69.5 | 70.0 |
| Attending fourth year   | 50.0      | 50.5     | 51.0     | 51.5      | 52.0      | 52.5    | 53.0 | 53.5 | 54.0 | 54.5 | 55.0 |
|   | ]         | Free and | Reduced  | -Price L  | unch      |         |      |      |      |      |      |
| Percent of students taking free and reduced-<br>price lunch                       | 70.8      | 70.8     | 70.8     | 70.8      | 70.8      | 70.8    | 70.8 | 70.8 | 70.8 | 70.8 | 70.8 |
| Percent of students going to a community college and eligible for a Pell Grant    | 85.0      | 85.0     | 85.0     | 85.0      | 85.0      | 85.0    | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 |
| Percent of students going to a four-year university and eligible for a Pell Grant | 35.0      | 35.0     | 35.0     | 35.0      | 35.0      | 35.0    | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |