# Report on the Cost of Education 

Allen Dupree<br>New Jersey Department of Education Division of Finance<br>Office of School Funding

Dr. John Augenblick<br>Justin Silverstein

Augenblick, Palaich and Associates, Inc.

## Executive Summary

The following report was prepared by the New Jersey Department of Education (the Department) and Augenblick, Palaich, and Associates, Inc. (APA), a nationally recognized education consulting firm with more than 20 years experience in education policy and school finance. The report describes work undertaken by staff from both organizations over the past several years.

The primary purpose of this report is to calculate the costs New Jersey school districts face in meeting state performance and accountability standards. Costs addressed include:

1. A per-student "base" cost (which reflects only the cost of serving students with no special needs); and
2. Adjustments to the base cost that reflect the added cost of serving special need students (including special education students, at-risk students and English language learners).

To identify these costs, the report used two nationally recognized study approaches. The Department weighed the strengths and weaknesses of each approach, and then selected one - the Professional Judgment Panel (PJP) approach - whose results form the basis of the report's findings. The tables below identify the median base cost and added cost weights identified using the PJP approach.

These costs reflect the price of putting resources into schools and districts that panels of educators from across the state say are needed for students to meet New Jersey's academic performance expectations. It is critical to note, however, that panelists only identified a set of resources to be used in a series of hypothetical school scenarios and did not specifically examine any existing school or district in the state. It is therefore not appropriate to suggest that any specific resources or programs identified by the panels should be applied in all New Jersey schools. Nor can the report be used to determine which portion of these resources should be paid for at the state or local level.

Instead, the panel recommendations are perhaps best viewed simply in terms of identifying an overall level of funds which should be available to purchase personnel, resources, and programs as individual school or district leaders see fit. The advantage of such an approach is that it gives the flexibility to educators to decide how best to meet the specific needs of their students. These are the professionals who: 1) work with children in classrooms on a daily basis; 2) have the experience and training to make the best decisions possible on the types of resources needed for students to meet state standards; and 3) have the greatest understanding of the unique characteristics of their district and student population that might warrant a different way of deploying resources.

As shown in the tables below, the process used identified a base cost and added weights for students with special needs in both $\mathrm{K}-8$ and $\mathrm{K}-12$ districts. The base cost shown
below is only a median cost. For more information on how this cost might vary by district size or grade span, please see Sections V and VI below.

## Median Base Cost for New Jersey's K-8 and K-12 districts

| $\mathrm{K}-8$ | $\$ 7,367$ |
| :--- | :--- |
| $\mathrm{~K}-12$ | $\$ 8,496$ |

## Added Cost Weights for Students with Special Needs

|  | $\mathrm{K}-8$ Districts | $\mathrm{K}-12$ Districts |
| :--- | :---: | :---: |
| Special Education |  |  |
| Speech | 0.46 | 0.41 |
| Moderate | 1.95 | 1.42 |
| Severe | 7.39 | 4.08 |
| Extended School Year | 0.48 | 0.42 |
| Preschool Disabled | 3.23 | 2.84 |
|  |  |  |
| At-Risk | 0.63 | 0.45 |
| LEP | 0.81 | 0.37 |

## Section 1: Introduction

In 2002, the New Jersey Department of Education (Department) began conducting analyses to develop recommendations for a new State education funding law and to determine the cost of providing educational services consistent with the state's Core Curriculum Content Standards (Standards). These analyses followed up on a conference sponsored by the Department that brought together educators from across the state to discuss studies that were being undertaken in other states. These studies use different methodologies to calculate the costs school districts face in meeting state performance and accountability standards. Costs addressed by the studies typically include:

1. A "base" cost (which reflects only the cost of serving students with no special needs); and
2. Adjustments to the base cost that reflect the added cost of serving special need students (including special education students, at-risk students and English language learners).

After considering the various methodologies used in other states, the Department decided to utilize two approaches, the Successful School Districts (SSD) approach, and an approach using Professional Judgment Panels (PJP). To conduct these approaches, the Department entered into a contract with Augenblick, Palaich and Associates, Inc. (APA, formerly Augenblick and Myers), a nationally recognized education consulting firm with extensive experience assisting government entities and stakeholder organizations with this type of analysis. APA's John Augenblick and Justin Silverstein were primarily responsible for the work undertaken for the Department.

As discussed in the next section, the underlying assumption of the SSD approach is that a uniform base cost figure can be estimated by examining the basic expenditures of New Jersey school districts that fulfill state education accountability expectations. The underlying assumption of the PJP approach is that all education service delivery costs including a base cost and adjustments for students with special needs - can be determined by costing out those services that panels of New Jersey educators identify as being needed in hypothetical school districts. Neither of the approaches considers the costs of transportation or capital.

## Section II: Methods for Determining the Cost of Education

Over the past ten years, researchers and policy experts have developed several approaches to calculate the resources needed for schools and districts to achieve a particular student performance level. These efforts are designed to identify a cost that has meaning beyond simply reflecting available state revenue. Four approaches have emerged as ways to determine such a cost:
(1) The successful school district approach (SSD);
(2) The professional judgment panels approach (PJP);
(3) The evidence-based approach; and
(4) The cost function approach.

The logic of the successful school district approach (SSD) ${ }^{1}$ is that one can identify the cost of providing a quality education by reviewing the expenditures of those school districts in which students are meeting some measurable performance standard. The process begins by developing criteria by which school districts can be evaluated. Data are analyzed to identify the districts that meet the criteria and financial data are used to calculate per pupil regular education expenditures. The median expenditure among the successful districts is deemed the necessary base cost for providing quality educational services to students with no special needs. Importantly, the SSD approach can only identify a base cost. If the full cost of meeting the standard is to be identified, another approach must be used to determine adjustments required for special needs students. The SSD method has been used to estimate the cost of education in a number of states, including Colorado, Kansas, Maryland, Mississippi, Missouri, New York and Ohio. ${ }^{2}$

The professional judgment panels approach (PJP) begins with the identification of a set of desired performance standards or outcomes and the creation of at least one hypothetical school district. Next, a panel (or multiple panels) of education practitioners are assembled and tasked with answering the question, "What resources do you need to provide students in the hypothetical district(s) the educational opportunities that will allow all of them to meet the specified educational standards?"

The panelists recommend resources for a school district that has no students with special needs. Then they recommend additional resources associated with providing programs and services for special need students. Panelists are instructed to identify resources without regard to their cost; however, the panelists are also told to limit recommendations to only what is necessary to meet the educational outcomes or standards and to refrain from constructing a "dream school." Once the panelists have completed their work, the cost of the specified resources is determined. The result of this process (known as "costing out") yields a base per pupil amount for general education as well as the additional cost of providing services to students with special needs. Maryland, Kansas, Oregon and New York are a few states in which the PJP approach has been applied. ${ }^{3}$

The Evidence-Based approach (EB) represents a third method used to assess educational costs associated with meeting performance standards. This method is similar to PJP in that the resources that are necessary to meet an educational objective are identified and the cost of such resources is determined. The difference between the two methods is how the resources are identified. While the PJP approach relies on the collective judgment of practitioner panels, the EB method utilizes the results of previously existing studies to determine what resources are necessary.

[^0]A last approach that has been explored to identify costs associated with meeting education standards is the cost function (or econometric modeling approach). Using complex statistical procedures, this process uses a variety of input data and outcome measures to predict the cost of providing educational services that will yield a specific level of educational outcomes. The approach is based on observed relationships between student performance and district expenditure data after controlling for other factors.

Each of the approaches discussed above has certain advantages and limitations to consider. Of the four methods, SSD is the most easily implemented once the necessary data are available. Additionally, the concept is intuitive and readily understood by a wide range of stakeholders. There is, however, one notable weakness. As previously mentioned, this method is not suitable for determining the additional costs associated with serving students with special needs, and requires that an alternative approach be used to make that determination. ${ }^{4}$

Unlike SSD, the PJP analysis provides both a base cost and the adjustments for special needs students. Because it actively involves school and district personnel, the PJP process is also very transparent. Some have argued, however, that there is not a clear connection between the resources that result from this process and any set of educational outcomes.

The EB approach attempts to rely on research that links specific educational programs to student outcomes. However, there is no clear consensus among studies regarding the efficacy of any specific set of educational reforms working for all students in all districts. The research used to justify certain resources also does not link these resources to the educational objectives or performance standards of any specific state. Additionally, the approach does not address a number of costs that districts face in providing education services such as operations and maintenance.

The cost function methodology seeks to link performance and spending data. The method suffers from two important shortcomings. First, the approach relies on large amounts of specific data that is often not readily available. Second, the procedure involves the use of complex statistical techniques that are not readily understood by the parties who would be directly impacted by the results.

Given the relative strengths and weaknesses of each approach, the Department decided to implement two methods, SSD and PJP. The following sections of this report explain the implementation of each method in more detail.

## Section III: Successful School Districts

The SSD methodology is conceptually straightforward and can be readily implemented if certain data are available. The cost of providing quality educational services is determined by identifying districts that have met some predetermined level of student

[^1]performance and examining the base cost expenditures in these districts. In this study, the median basic expenditure per pupil among these successful districts is considered to be the base cost for all districts. The analysis is limited to $\mathrm{K}-8$ and $\mathrm{K}-12$ school districts in order to align the costs with those obtained using the PJP methodology.

Three steps were required to carry out the SSD analysis in New Jersey. First, measurable criteria for defining "success" were developed. Second, analysis was conducted to determine which school districts satisfied the chosen criteria. Third, fiscal data was analyzed to determine the base spending of identified successful school districts. The base cost derived from the SSD methodology was derived from all districts that satisfied the success criteria.

In establishing the criteria for defining a successful district, the analysis focused on student performance on the four State assessments administered during the 2004-2005 school year. ${ }^{5}$ While it is understood that such exams do not measure all of the benefits schools impart on their students, there are at least three key reasons why these represent the best parameters for measuring school district success:

1) Student performance on these exams is a direct measure of districts' ability to educate students to the CCCS. The State exams are designed to assess students’ mastery of the CCCS at a given point in the academic career. This is consistent with the objective of determining the cost of providing educational services that meet the State's Standards.
2) The measures are uniform for all districts and are not based on self-reported data. Other available student performance measures are based on self-reported data that are not routinely verified by the Department and do not allow for systematic comparisons across districts. Using State assessment scores ensures that all districts are compared to a standard using the same rubric.
3) The standards for success have already been established and are known by school district officials. N. J. A. C. 6A:8-4.4 specifies the proficiency rates school districts are to achieve in order to meet the adequate yearly progress (AYP) thresholds required under the State's No Child Left Behind plan. Table 1 summarizes the AYP thresholds applied to the 2004-05 school year assessments.

Table 1
Required Proficiency Rates on State Assessments: 2004-2005 School Year

|  | Language Arts | Mathematics |
| :--- | :---: | :---: |
| NJ ASK3 | 75 | 62 |
| NJ ASK4 | 75 | 62 |
| GEPA | 66 | 49 |
| HSPA | 79 | 64 |

[^2]Given that the success criteria are defined, available data was evaluated to determine which districts met the standards. This analysis utilized the districts' assessment data as summarized in the 2005 New Jersey School Report Card (the downloadable databases are available at http://education.state.nj.us/rc/rc05/database.htm). Districts were considered successful if the proficiency rate for the total student population was greater than or equal to the proficiency rate thresholds shown in Table 1 for all tests administered in the school district. Any test data that were suppressed for confidentiality reasons did not impact a district's potential success status.

It should be noted that these data are different in two key respects relative to the information used to determine whether or not a district is in need of improvement under NCLB. First, the report card data used in this analysis provide test scores when at least 11 students were tested. For purposes of determining AYP status, there must be at least 20 valid test scores. Second, the report card data include all students who sat for the exam in a given district, while the AYP determination omits students who were not continuously enrolled in the school for the past year. The result of these differences is that the criteria used to identify successful districts are more stringent than those used to determine a district's AYP status. Districts are more likely to be assessed since the number of students needed to be included in the analysis is lower. Additionally, the inclusion of students who are in the school for less than one year makes attaining the threshold more challenging (since this is a group that typically does not perform as well on State assessments as students who have not transferred schools in the past year).

A review of the assessment data from the 2004 - 2005 school year identified 305 New Jersey school districts in which the total student population successfully met the established criteria. The 305 districts represented 69 percent of the $\mathrm{K}-8$ or $\mathrm{K}-12$ districts included in the analysis (these districts, as well as the districts' per pupil basic education expenditures for the 2004-05 school year, are listed in Appendix 1). ${ }^{6}$ Nearly threequarters of $\mathrm{K}-8$ districts and 64 percent of $\mathrm{K}-12$ districts were classified as successful using this procedure. Figure 2 shows the percent of districts in each DFG classification that were classified as successful.

Once the successful districts were identified, enrollment and financial data were used to determine the basic spending per student for each district. Specifically, the data from the October 2004 Application for State School Aid (ASSA) were used to provide a count of students on roll in the relevant districts. The fiscal year 2005 audit summary data provided all of the expenditures incurred by districts. It was necessary to omit expenditures that were not related to basic student education or which tended to vary greatly from one year to the next (such as legal judgments against the school district). Additionally, capital and transportation costs were excluded. Appendix 2 provides a listing of the line items that were incorporated into the analysis.

[^3]Figure 2
Percent of School Districts Classified as Successful, by District Factor Group


Having identified the pertinent expenditures, the basic expenditures per pupil in each successful district was calculated and the median expenditure across districts was defined as the overall "base cost." Table 2 shows these figures for $\mathrm{K}-8$ and $\mathrm{K}-12$ districts.

Table 2
Cost of Education Using Successful School District Methodology

|  | $\mathrm{K}-8$ Districts | $\mathrm{K}-12$ Districts |
| :--- | :---: | :--- |
| Median Per Pupil Expenditure | $\$ 8,004$ | $\$ 8,493$ |
| Number of Districts | 164 | 141 |

## Section IV: Professional Judgment Panel

The PJP method involves asking a panel (or multiple panels) of education practitioners to identify the resources necessary to educate students in a hypothetical school district to a specific educational standard. There are three stages involved when utilizing this approach. First, one must develop a number of hypothetical school districts that reflect the actual demographics of school districts in the state. Second, panels consisting of education professionals are assembled to determine what resources would be needed in the hypothetical school districts to obtain a specific set of academic outcomes. In the third stage, the resources identified as necessary by the panelists are "costed out." The
resulting dollar amounts represent the cost of providing educational services consistent with the identified Standard.

## Stage 1: Developing the Hypothetical School Districts

In the first stage of the process, the Department provided APA with detailed information regarding the size of New Jersey school districts and key student characteristics (such as the percent of students who are low-income, special education classified or exhibit limited English proficiency $)^{7}$. As APA requested, districts were arrayed based on their total enrollment and placed into quintiles with approximately an equal number of students. For example, quintile 1 contained the 341 smallest school districts and had approximately 267,000 students. Since quintile 2 included larger districts, a similar number of students was obtained with only 106 districts. Table 3.A summarizes information relating to the quintiles and the percent of students in each who were lowincome or limited English proficient. Table 3.B contains data related to the special education classification rates within each group. More detailed data (not shown) provided similar information by district grade span within each quintile.

Table 3.A
School District Characteristics, by Quintile

|  | \# students | \# districts | \% Low Income | \% LEP |
| :--- | :---: | :---: | :---: | :---: |
| Quintile 1 | $267,235.5$ | 341 | 10.7 | 2.3 |
| Quintile 2 | $268,120.5$ | 106 | 11.9 | 2.5 |
| Quintile 3 | $265,135.0$ | 56 | 16.1 | 3.5 |
| Quintile 4 | $262,585.5$ | 33 | 22.0 | 5.5 |
| Quintile 5 | $275,675.5$ | 15 | 47.8 | 7.3 |

Table 3.B
School District Special Education Distribution, by Quintile

|  | \% Tier II | \% Tier III | \% Tier IV | \% Total |
| :--- | :---: | :---: | :---: | :---: |
| Quintile 1 | 8.1 | 3.3 | 1.7 | 13.1 |
| Quintile 2 | 7.9 | 3.6 | 1.7 | 13.2 |
| Quintile 3 | 8.5 | 3.3 | 1.6 | 13.4 |
| Quintile 4 | 8.1 | 3.0 | 1.6 | 12.7 |
| Quintile 5 | 8.0 | 3.6 | 1.8 | 13.4 |

After reviewing the data, APA requested additional demographic information for six district groupings: 1) $\mathrm{K}-8$ districts with enrollment less than 350 students, 2) K-8 districts with enrollment between 350 and 600 students, 3) K-12 districts with enrollment

[^4]less than 1,300 students, 4) $\mathrm{K}-12$ districts with enrollment between 1,300 and 3,999 students, 5) K-12 districts with enrollment between 4,000 and 7,999 students, and 6) K12 districts with at least 8,000 students. The information provided across the six groups, as shown in Appendix 3, included the number of school districts in the category, the total number of students and average enrollment, the average number of schools and school size, and the percent of students classified as low-income, limited English proficient or special education.

After analyzing the data, six hypothetical school districts were created, as shown in Table 4. One may notice that the grade spans included do not cover the full range of district grade spans that actually exist in New Jersey. This is because it was determined that it would be unnecessary to specify models for all extant district grade configurations. Since the resources are to be developed at the school level, it was decided that the resources could be rearranged afterwards to estimate the cost associated with other grade spans not included in the PJP analysis. This process is discussed in more detail in Section V of this report.

## Stage 2: Professional Judgment Panel Meetings

Having developed the six hypothetical districts, the next stage was to assemble panelists to determine what resources were needed to provide all New Jersey students with the opportunity to meet the state's performance standards. Three rounds of panel meetings were held:

1. In the first round, Department personnel provided recommendations of the resources needed in the six hypothetical schools.
2. During the second round multiple panels, representing various types of school districts throughout the state, reviewed and modified the resources identified in round one.
3. The third round used one panel of district-level policy makers from various school districts to provide a final set of recommendations.

Members of APA staff facilitated all panel meetings. The first panel meeting took place at the Department headquarters in Trenton from January 21 to 23, 2003. Seven Department employees were selected to participate in the panel based on their previous experience in school districts and expertise in education administration or other specific program area (such as special education). A list of participants and their job titles at the time the meeting was conducted is provided in Appendix 6.

The panelists were first given background materials and instructions that included key information about the process. They also received an abridged version of the Standards, required proficiency rates on the state assessments, and other graduation, school day, and school year requirements. These documents are included in Appendix 4. Next, the panelists began identifying the resources that would allow each hypothetical district to provide its students with the opportunity to achieve the Standards. The panelists'

Table 4
Characteristics of Hypothetical School Districts

recommendations included: 1) the resources needed assuming that none of the students possessed any special needs; and 2) additional resources for students who receive special education services, come from low-income families, or demonstrate limited English proficiency.

For the second round of panels, nominations for PJP participants were solicited. The Department sent letters to various education-related organizations requesting names of individuals to be included (the organizations from which nominations were requested are listed in Appendix 5). Upon receiving nominations, the Department contacted the individuals regarding their availability for the two-day meeting. After receiving responses from the nominated individuals, the Department developed a final list of invitations. The decision regarding who among the available nominees should be included on the panels was based on the desire to include a diversity of panelists along three dimensions: 1) current or previous work experience in specific positions (e.g., superintendents, principals, teachers, business administrators, special education, at-risk education, and English language learner specialists), 2) experience in school districts with different demographics (urban versus suburban and small versus large), and 3) experience working in different geographic areas of the state. Appendix 6 contains a list of those who were invited and their affiliation at the time that the meeting occurred.

The second panel meeting took place February 20-21, 2003, at the Holiday Inn in Jamesburg, NJ. The participants were divided into five groups: one group focused on the two $\mathrm{K}-8$ models while the other four each focused on one of the $\mathrm{K}-12$ hypothetical districts. In addition to the same instructions that were provided to the first panel members, this group also received a copy of the spreadsheets containing the resources recommended by the first panelists. Rather than specifying the resources in a vacuum, the groups reviewed and modified the original set of recommendations. Again, the resulting spreadsheets are not included in this report but are available from the Department upon request. Appendix 7 provides a list of the individuals who were invited to participate in the meeting and their affiliation at that time.

The Department convened a final group of panelists from school districts to review and modify the results from the second round (the invitees are listed in Appendix 8). In a meeting held at DOE headquarters on March 11-12, 2003, the panel received the same instructions and background material as the previous panel, as well as the spreadsheets completed from the second round of the process. This group made modifications that represented the final set of recommendations to be used to determine the cost of providing educational services to meet the Standards.

Appendix 9 contains the final series of tables that list the resources for each hypothetical district. The tables show the detailed resources for each district. The final hypothetical districts have resources for general education (which includes gifted and talented programs) special education, programs for at-risk students, and individuals with limited English proficiency as well as central office administration services.

## Stage 3: Costing-Out Analysis

The third stage of the PJP work involved determining the cost of the resources specified by the panelists. The participants specified certain resources, such as instructional supplies and
materials, in terms of a per-pupil cost. Personnel resources, however, were expressed in fulltime equivalent (FTE) terms. Calculating the cost of personnel required using some estimate of the salaries and benefits associated with each FTE position. Appendix 10 lists the salaries ${ }^{8}$ and benefits associated with the various personnel used to calculate the educational cost (benefits equal 20 percent of the salary). It should be noted that salary costs for certificated staff (such as teachers, administrators and student support personnel) is based on the median salary increased by 1.5 percent to account for differences observed between teachers' salaries in New Jersey and nearby states. Table 5 summarizes the costs that were derived using the final set of resources specified.

Table 5
Base and Additional Costs in Hypothetical School Districts

|  | V. Small |  | Small | Small | Moderate | Large |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  | $\mathrm{K}-8$ | $\mathrm{~K}-8$ | $\mathrm{~K}-12$ | $\mathrm{~K}-12$ | $\mathrm{~K}-12$ | $\mathrm{~K}-12$ |
| District Level Costs |  |  |  |  |  |  |
| District Administration | 2,299 | 1,481 | 971 | 529 | 529 | 372 |
| Operations \& Maintenance | 642 | 513 | 562 | 494 | 463 | 469 |
| Other | 112 | 111 | 117 | 263 | 328 | 286 |
| Total General Education Costs |  |  |  |  |  |  |
| School Level | 7,004 | 5,758 | 7,126 | 6,928 | 6,816 | 6,889 |
| Instruction | 4,967 | 4,746 | 5,456 | 5,305 | 5,252 | 5,266 |
| Support | 1,397 | 721 | 912 | 916 | 888 | 909 |
| School Administration | 606 | 275 | 741 | 672 | 637 | 674 |
| Operations \& Maintenance | 33 | 15 | 17 | 35 | 39 | 41 |
| District Level Costs | 3,054 | 2,105 | 1,649 | 1,286 | 1,320 | 1,126 |
| Total Base Costs ${ }^{9}$ | $\mathbf{1 0 , 0 5 7}$ | $\mathbf{7 , 8 6 3}$ | $\mathbf{8 , 7 7 5}$ | $\mathbf{8 , 2 1 5}$ | $\mathbf{8 , 1 3 6}$ | $\mathbf{8 , 0 1 6}$ |
|  |  |  |  |  |  |  |
| Additional Costs for Special Needs |  |  |  |  |  |  |
| Special Education |  |  |  |  |  |  |
| Mild | 4,487 | 2,855 | 1,203 | 3,552 | 3,027 | 3,337 |
| Moderate | 16,495 | 14,113 | 11,452 | 12,978 | 10,974 | 11,455 |
| Severe | 69,840 | 47,179 | 30,657 | 37,018 | 33,459 | 33,881 |
| Preschool Disabled | 25,705 | 24,729 | 19,261 | 22,709 | 24,328 | 27,437 |
| Extended School Year | 3,698 | 3,839 | 3,569 | 3,697 | 3,269 | 3,421 |
|  |  |  |  |  |  |  |
| Limited English Proficiency | 8,570 | 4,335 | 3,386 | 2,751 | 2,792 | 3,381 |
| Low-Income Students |  |  |  |  |  |  |
| Low Concentration |  |  |  |  |  |  |
| Moderate Concentration |  |  |  |  |  |  |
| High Concentration |  |  |  |  |  |  |
| Very High Concentration |  |  |  |  |  |  |

[^5]
## Section V: Application of PJP Results

The PJP results can be used to determine a base cost and adjustments for special needs students for every district in the state. Generally, APA uses the results of the PJP panels as they are identified by the panelists. In New Jersey, however, the Department felt an adjustment to the results was needed to avoid supporting inefficiencies created by poor economies of scale in very small school districts. These inefficiencies are displayed in Figure 3. Figure 3 apportions the total base cost of the six model school districts into three broader categories: instruction, administration and other. ${ }^{10}$ The figure reflects the lack of economies of scale in the smallest hypothetical districts, where approximately one quarter of the total estimated base cost is consumed by administrative expenditures. By comparison, administration accounts for only 15.5 percent of the base cost in the larger $\mathrm{K}-12$ districts.

The Department felt that a core objective of this exercise was to determine not only the cost of meeting the Standards but to do so in an efficient manner. The total base costs of the very small and small $\mathrm{K}-8$ districts were therefore adjusted so that administration equals 15.5 percent of the total base cost (matching the percentage of administrative cost in the larger $\mathrm{K}-12$ districts). This yielded a revised base cost of $\$ 8,460$ and $\$ 7,223$, respectively. This adjustment was made by the Department and does not follow APA's general PJP procedures.

Figure 3
Distribution of Costs in Hypothetical School Districts


[^6]Next, a series of formulas was developed to calculate the base per pupil cost for all school districts. It was not possible to simply assign every district one of the six base cost figures. As Figure 4 shows, economies of scale exist that should be accounted for when applying a base cost to a school district. To accommodate these differences, a series of equations were developed to account for the differences in costs based on size of district. The $\mathrm{K}-8$ and $\mathrm{K}-12$ figures are treated separately. The resulting equations were as follows:
(1) $\mathrm{K}-8$ districts, less than 500 students: $[(4.581 *(500-E N R)]+\$ 7,223$
(2) $\mathrm{K}-8$ districts, $500+$ students: $\$ 7,223-\left[0.369^{*}(E N R-500)\right]$
(3) $\mathrm{K}-12$ districts, less than 1,000 students: $[0.369 *(1,000-\mathrm{ENR})]+\$ 8,775$
(4) K -12 districts, $1,000-2,500$ students: $\$ 8,215-[0.369 *(E N R-1,000)]$
(5) $\mathrm{K}-12$ districts, $2,500-13,500$ students: $\$ 8,136-[0.019 *(E N R-2,500)]$
(6) $\mathrm{K}-12$ districts, more than 13,500 students: $\$ 8,016$

Figure 4
Base Costs in Hypothetical School Districts, Including Small District Adjustment


Next, base cost figures were developed for districts with grade configurations not covered by the six hypothetical models included in the PJP analysis. Specifically, there were school districts serving grades $\mathrm{K}-6$, grades $7-12$ and grades $9-12$ for which base cost figures had to be derived from the results already obtained. Since the panelists identified resources at the school level, it
was possible to isolate the cost associated with specific grade spans and apply the base figures to these districts.

Given the number of grades that overlap between a K-6 school district and the K-8 hypothetical district, the K-8 base cost was applied to the former grade span without any additional adjustment. Data from the moderate, large, and very large $\mathrm{K}-12$ districts were used to identify the base cost in three discrete grade spans (the small K-12 hypothetical could not be used for this purpose because it did not contain separate elementary and middle schools).

Table 6 shows how the data from the three hypothetical districts were used to develop an additional cost weight for districts operating grades $7-12$ and $9-12$. The total base costs (including school and district-level costs) associated with each grade span were derived from the original PJP results. These results are displayed in the section of Table 6 titled "Base Cost."

Table 6
Grade Span Base Cost in Moderate, Large and Very Large K through 12 Hypothetical Districts

|  | Moderate K - 12 | Large K - 12 | Very Large <br> K - 12 |  |
| :--- | :---: | :--- | :---: | :---: |
| Base Cost |  |  |  |  |
| $\mathrm{K}-5$ | 7,558 | 7,592 | 7,399 |  |
| $6-8$ | 8,000 | 8,034 | 7,840 |  |
| $9-12$ | 9,420 | 9,006 | 9,032 |  |
| $\mathrm{~K}-12$ | 8,215 | 8,136 | 8,016 |  |
|  |  |  |  |  |
| Derived Base |  |  |  |  |
| Cost | 8,931 | 8,671 | 8,621 |  |
| $7-12$ | 9,420 | 9,006 | 9,032 |  |
| $9-12$ |  |  |  | Average |
| Ratio to |  |  |  | $\mathbf{1 . 0 8}$ |
| K-12 Cost | 1.09 | 1.07 | 1.08 | $\mathbf{1 . 1 3}$ |
| $7-12$ | 1.15 | 1.11 | 1.13 |  |
| $9-12$ |  |  |  |  |

The base cost for a school district serving grades $7-12$ was determined by calculating the weighted average base cost for the corresponding grades. For example, using the data from the moderate $\mathrm{K}-12$ district, the base cost for students in grades $6-8$ and $9-12$ are $\$ 8,000$ and $\$ 9,420$, respectively. The weighted average of these two figures (after accounting for the number of students at each grade level in the hypothetical school district) is $\$ 8,931$. This calculation was replicated for the other two hypothetical districts and the results are shown in the section labeled "Derived Base Cost." The base figure for districts serving grades 9-12 is identical to the cost of educating high school students in the hypothetical $\mathrm{K}-12$ districts.

The ratio of these derived base costs to the $\mathrm{K}-12$ base costs was calculated in each of the three models. The average across these three ratios represents the additional weight to be applied to students enrolled in school districts that only operate the higher grades; the additional weight for students in districts operating grades $7-12$ is 0.08 while the high school district weight is 0.13 . These weights were multiplied by the base costs derived from equations 3 through 6 above to yield the base costs for these school districts.

Next, a weight was developed to account for the additional cost of students educated in county vocational school districts. In determining an additional weight to account for the higher cost, the objective was to adjust for factors not already considered elsewhere in the cost determination. For example, because of the smaller class sizes required and the more costly supplies and materials needed in vocational schools, additional costs need to be added to the basic expenditure.

Table 7 contains the average per pupil expenditures in county vocational school districts and other districts in the state that serve the high school grades only. Three specific cost areas, general education, administration and maintenance (which account for 72 percent of the total expenditures), were identified as areas in which county vocational districts, by their very nature, were likely to incur higher expenses. The total difference between high school and county vocational school districts' expenditures was divided by the total expenditure in high school districts to provide an additional weight used to determine the base cost figure for county vocational districts. This weight was applied to the equations 3 through 6 in addition to the high school grade span weight discussed previously.

Table 7
Per Pupil Expenditures in County Vocational and High School Districts

|  | County Vocational <br> Districts | High School Districts | Difference |
| :--- | :---: | :---: | :---: |
| General Education | 4,702 |  |  |
| Administration | 1,982 | 4,518 | 184 |
| Maintenance | 2,258 | 1,098 | 884 |
| Total of Selected Exp. | 8,942 | 1,309 | 949 |
| Total Exp. | 12,498 | 6,925 | 2,017 |
| Selected Expenditures as a \% of Total HS District Expenditures |  |  |  |

Table 5 has already shown the base costs derived from the PJP resources as well as the additional costs per pupil associated with special needs students. These additional costs are expressed in weights relative to the base cost figures in Table 8.

To make the data in Table 8 usable in a state funding formula, the results must be studied to determine the appropriate special need student weights to use for all districts. In some states, the results lend themselves to creating different weights based on district size and type. As seen in table 8, the weights for New Jersey's districts are first broken out by type of district (K-8 or K12).

Table 8
Weight of Special Education, Limited English Proficiency and At-Risk Programs Relative to Base Cost in Hypothetical School Districts

|  | Very Small | Small | Small | Moderate | Large | Very Large |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: |
|  | $\mathrm{K}-8$ | $\mathrm{~K}-8$ | $\mathrm{~K}-12$ | $\mathrm{~K}-12$ | $\mathrm{~K}-12$ | $\mathrm{~K}-12$ |
| Special Education |  |  |  |  |  |  |
| Speech | 0.53 | 0.40 | 0.14 | 0.43 | 0.37 | 0.42 |
| Moderate | 1.95 | 1.95 | 1.31 | 1.58 | 1.35 | 1.43 |
| Severe | 8.26 | 6.53 | 3.49 | 4.51 | 4.11 | 4.23 |
| Ext. School Year | 0.44 | 0.53 | 0.41 | 0.45 | 0.40 | 0.43 |
| Prek Disabled | 3.04 | 3.42 | 2.20 | 2.76 | 2.99 | 3.42 |
| At-Risk |  |  |  |  |  |  |
| $10 \%$ | 0.50 | 0.68 | 0.49 | 0.45 | 0.44 | 0.46 |
| $20 \%$ | 0.65 | 0.71 | 0.49 | 0.46 | 0.46 | 0.47 |
| $40 \%$ |  |  |  |  | 0.46 | 0.51 |
| $60 \%$ |  |  | 0.60 |  |  | 0.33 |
| LEP |  |  |  |  | 0.34 | 0.37 |

The weights for New Jersey's K-8 and K-12 districts differed enough - for all special need student categories - that they were examined separately. Specifically, we looked to see if there was any variation within the two separate types based on district size. What we found was that district size did not significantly impact the weights. Since this was the case, we took the average of the weights in the $\mathrm{K}-8$ and $\mathrm{K}-12$ school districts; the resulting final weights are shown in Table 9. It should be noted that the weight shown for speech students in the small K12 district is substantially lower than the corresponding program in other hypothetical districts. To avoid depressing the final weight for $\mathrm{K}-12$ districts, only the results for the three larger $\mathrm{K}-12$ hypotheticals were used to determine the averages.

Table 9
Final Weights for Special Education, Limited English Proficiency and At-Risk Programs

|  | $\mathrm{K}-8$ Districts | $\mathrm{K}-12$ Districts |
| :--- | :--- | :---: |
| Special Education |  |  |
| Speech | 0.46 | 0.41 |
| Moderate | 1.95 | 1.42 |
| Severe | 7.39 | 4.08 |
| Extended School Year | 0.48 | 0.42 |
| Preschool Disabled | 3.23 | 2.84 |
| At-Risk | 0.63 | 0.45 |
| LEP | 0.81 | 0.37 |

As seen in Table 8, the at-risk weights were not only examined by district type and size, but the concentration of at-risk students was also addressed. The results did not lead us to create a
concentration factor either by district type or size. We again simply took the average of all the weights within a district type to create an at-risk weight. Though all the weights for at-risk were used in creating the K-12 average it would be possible to drop the low figure of .37 and create a higher weight of .47 for the $\mathrm{K}-12$ at-risk weight.

The base cost per pupil and adjustments for special needs students assume that all school districts can hire similarly qualified personnel for the same salary. There are at least two factors beyond a school district's control that may cause this assumption to be inaccurate. First, the cost of living in a certain region can influence salary demands. A potential employee may demand a higher salary to work in a school district in which the surrounding housing market is more expensive. Second, a teacher may also require additional compensation to work in a more challenging environment. ${ }^{11}$

This concern was addressed by including the Geographic Cost of Education Index (GCEI) developed by Dr. Jay Chambers for the National Center for Education Statistics. ${ }^{12}$ The GCEI uses detailed data on local community, school district and individual teacher characteristics to estimate the impact of factors beyond a school district's control to measure the differential salary requirements across districts. The analysis resulted in the development of a cost index for each school district in the country (where the national average of the index equals 1). For implementation purposes, New Jersey school districts were taken from the publicly available data. The GCEI was rescaled such that the average for all New Jersey school districts equals one.

## VI: Comparing SSD and PJP Results

Having implemented both the SSD and PJP methodologies, a decision had to be made regarding which set of results (or combination of the results) should be used as the cost basis for meeting New Jersey's education Standards. Table 10 compares the results of the two methods. For these purposes, the PJP figures reflect the median district's base cost after applying the formulas included in equations 1 through 6 . There is essentially no cost difference in $\mathrm{K}-12$ districts when the two methods are used. In the case of $\mathrm{K}-8$ districts, the base cost derived from the SSD method is approximately 9 percent higher than that observed from PJP. This difference is likely caused in part by the reduction in administrative expenditures in the smallest districts.

Table 10
SSD and PJP Base Cost Comparison

|  | SSD | PJP | Difference | \% Difference |
| :--- | :---: | :---: | :---: | :---: |
| $\mathrm{K}-8$ | 8,004 | 7,367 | 637 | 8.6 |
| $\mathrm{~K}-12$ | 8,493 | 8,496 | -3 | 0.0 |

[^7]For three reasons, it was decided that the PJP results would be used as the basis for defining the cost of education. First, PJP determines the cost of providing both general education services as well as the additional services that are required by students with special needs. Second, the PJP method accounts for the different economies of scale experienced by districts of different sizes. Third, PJP is a more public process that incorporates input from those individuals responsible for educating students to the Standards.

## Section VII: Comparing Current and PJP Based Expenditures

After determining the base cost and the additional weights for providing services to students with special needs, districts' enrollment data were utilized to determine districts' budgetary needs based on their specific student population and the corresponding costs. For purposes of this analysis, the budget deemed necessary to provide students with educational opportunities consistent with the Standards is called the program cost (PC). Appendix 11 provides a more detailed description of the data that were utilized to calculate the districts' PC as well as their expenditures on items consistent with the contents of the program cost.

In the aggregate, school districts currently spend an amount consistent with the PC that has been calculated based on the PJP recommendations. Districts spent $\$ 15.6$ billion on the programs and services that were included by the panelists. This is 0.9 percent less than the $\$ 15.8$ billion total PC for all school districts. As Table 11 shows, New Jersey is unique in this respect. In many states where similar studies have been conducted, there is a more substantial difference between overall current expenditures and the costs identified through the PJP process.

Table 11
Actual Expenditures and Program Costs in Various Professional Judgment Analyses

| State / Adequacy Estimate | Actual Expenditure Relative to Adequacy |
| :--- | :---: |
| Kansas $^{13}$ | $-8.1 \%$ |
| Maine $^{14}$ | $-11.0 \%$ |
| Maryland $^{15}$ | $-48.7 \%$ |
| New Jersey | $-0.9 \%$ |
| New York - Method 1 |  |
| New York - Method 2 | $-17.4 \%$ |
| New York - Method 3 | $-19.3 \%$ |
| New York - Method 4 | $-20.5 \%$ |
| South Dakota ${ }^{17}$ | $-24.0 \%$ |
| Wisconsin ${ }^{18}$ | $-37.5 \%$ |

[^8]As Figure 5 shows, the aggregate figure masks the wide variation observed when one compares individual districts' actual expenditures to PC. Just under half of all school districts (46 percent) have actual expenditures less than PC. More than a quarter of all districts spend within $+/-5$ percent of PC while a majority ( 54 percent) of districts spends within $+/-10$ percent.

Figure 5
District Actual Expenditures Relative to Program Cost


Overall, the PC identified through the professional judgment process are perhaps best viewed in terms of identifying an overall level of funds that should be available to purchase personnel, resources, and programs as individual school or district leaders see fit. The advantage of such an approach is that it gives the flexibility to educators to decide how best to meet the specific needs of their students. These are the professionals who: 1) work with children in classrooms on a daily basis; 2) have the experience and training to make the best decisions possible on the types of resources needed for students to meet state standards; and 3) have the greatest understanding of the unique characteristics of their district and student population that might warrant a different way of deploying resources.

[^9]
## Appendix 1 <br> School Districts Included in Successful School Districts Analysis

K through 8 Districts

| County | District | Per Pupil Regular Educ. Expend. | DFG |
| :---: | :---: | :---: | :---: |
| Atlantic | Brigantine City | \$7,871 | CD |
| Atlantic | Estell Manor City | \$8,619 | DE |
| Atlantic | Hamilton Twp | \$5,614 | $C D$ |
| Atlantic | Linwood City | \$7,410 | GH |
| Atlantic | Margate City | \$12,571 | DE |
| Atlantic | Mullica Twp | \$6,764 | B |
| Atlantic | Northfield City | \$6,408 | DE |
| Atlantic | Port Republic City | \$11,411 | FG |
| Atlantic | Weymouth Twp | \$6,836 | B |
| Bergen | Allendale Boro | \$7,822 | 1 |
| Bergen | Alpine Boro | \$18,382 | I |
| Bergen | Carlstadt Boro | \$12,035 | DE |
| Bergen | Closter Boro | \$7,836 | I |
| Bergen | Demarest Boro | \$8,740 | I |
| Bergen | East Rutherford Boro | \$10,591 | $C D$ |
| Bergen | Englewood Cliffs Boro | \$13,222 | I |
| Bergen | Franklin Lakes Boro | \$9,889 | I |
| Bergen | Harrington Park Boro | \$7,513 | I |
| Bergen | Haworth Boro | \$8,775 | 1 |
| Bergen | Hillsdale Boro | \$7,889 | GH |
| Bergen | Ho Ho Kus Boro | \$8,795 | J |
| Bergen | Little Ferry Boro | \$6,052 | CD |
| Bergen | Maywood Boro | \$8,176 | FG |
| Bergen | Montvale Boro | \$8,569 | I |
| Bergen | Moonachie Boro | \$12,228 | B |
| Bergen | Northvale Boro | \$7,640 | FG |
| Bergen | Norwood Boro | \$7,587 | 1 |
| Bergen | Oakland Boro | \$8,801 | I |
| Bergen | Old Tappan Boro | \$7,720 | 1 |
| Bergen | River Vale Twp | \$8,594 | 1 |
| Bergen | Rochelle Park Twp | \$10,402 | FG |
| Bergen | South Hackensack Twp | \$9,089 | $C D$ |
| Bergen | Upper Saddle River Boro | \$9,553 | J |
| Bergen | Woodcliff Lake Boro | \$8,629 | J |
| Bergen | Wyckoff Twp | \$7,993 | 1 |
| Burlington | Eastampton Twp | \$6,284 | FG |
| Burlington | Evesham Twp | \$7,490 | I |
| Burlington | Hainesport Twp | \$7,658 | FG |
| Burlington | Lumberton Twp | \$6,263 | FG |
| Burlington | Medford Lakes Boro | \$7,158 | 1 |


| County | District | Per Pupil Regular Educ. Expend. | DFG |
| :---: | :---: | :---: | :---: |
| Burlington | Medford Twp | \$7,534 | 1 |
| Burlington | Mount Laurel Twp | \$7,364 | I |
| Burlington | Pemberton Borough | \$10,576 | CD |
| Burlington | Riverton | \$9,370 | GH |
| Burlington | Shamong Twp | \$7,695 | GH |
| Burlington | Southampton Twp | \$8,262 | DE |
| Burlington | Tabernacle Twp | \$8,015 | GH |
| Burlington | Washington Twp | \$10,219 | A |
| Burlington | Westampton | \$7,473 | GH |
| Burlington | Woodland Twp | \$11,004 | DE |
| Camden | Bellmawr Boro | \$5,909 | B |
| Camden | Berlin Boro | \$6,191 | DE |
| Camden | Brooklawn Boro | \$7,277 | B |
| Camden | Gloucester Twp | \$6,547 | DE |
| Camden | Merchantville Boro | \$7,360 | DE |
| Camden | Mount Ephraim Boro | \$6,171 | CD |
| Camden | Somerdale Boro | \$6,279 | CD |
| Camden | Stratford Boro | \$6,490 | DE |
| Camden | Voorhees Twp | \$7,831 | 1 |
| Cape May | Avalon Boro | \$23,679 | FG |
| Cape May | Dennis Twp | \$6,589 | CD |
| Cape May | Sea Isle City | \$17,952 | B |
| Cape May | Stone Harbor Boro | \$16,442 | FG |
| Cape May | Upper Twp | \$7,200 | FG |
| Cape May | Wildwood Crest Boro | \$12,475 | B |
| Cumberland | Greenwich Twp | \$9,309 | CD |
| Cumberland | Stow Creek Twp | \$7,847 | CD |
| Gloucester | Logan Twp | \$8,814 | FG |
| Hunterdon | Alexandria Twp | \$7,505 | GH |
| Hunterdon | Bethlehem Twp | \$8,469 | 1 |
| Hunterdon | Califon Boro | \$10,528 | 1 |
| Hunterdon | Clinton Town | \$7,244 | 1 |
| Hunterdon | Clinton Twp | \$7,182 | 1 |
| Hunterdon | Delaware Twp | \$8,288 | GH |
| Hunterdon | East Amwell Twp | \$8,340 | I |
| Hunterdon | Flemington-Raritan Reg | \$7,349 | 1 |
| Hunterdon | Franklin Twp | \$8,312 | I |
| Hunterdon | Frenchtown Boro | \$11,876 | FG |
| Hunterdon | High Bridge Boro | \$8,592 | GH |
| Hunterdon | Holland Twp | \$7,462 | FG |
| Hunterdon | Kingwood Twp | \$6,674 | FG |
| Hunterdon | Lebanon Twp | \$8,510 | I |
| Hunterdon | Milford Boro | \$9,798 | FG |
| Hunterdon | Readington Twp | \$8,097 | 1 |
| Hunterdon | Tewksbury Twp | \$9,184 | J |


| County | District | Per Pupil Regular Educ. Expend. | DFG |
| :---: | :---: | :---: | :---: |
| Hunterdon | Union Twp | \$8,377 | GH |
| Middlesex | Cranbury Twp | \$10,550 | $J$ |
| Middlesex | Milltown Boro | \$7,985 | FG |
| Monmouth | Belmar Boro | \$8,193 | CD |
| Monmouth | Brielle Boro | \$7,130 | GH |
| Monmouth | Colts Neck Twp | \$7,894 | I |
| Monmouth | Deal Boro | \$10,957 |  |
| Monmouth | Eatontown Boro | \$9,165 | FG |
| Monmouth | Fair Haven Boro | \$7,055 | I |
| Monmouth | Farmingdale Boro | \$11,084 | DE |
| Monmouth | Freehold Twp | \$6,733 | GH |
| Monmouth | Howell Twp | \$7,359 | FG |
| Monmouth | Little Silver Boro | \$8,270 | $J$ |
| Monmouth | Manalapan-Englishtown Reg | \$6,768 | GH |
| Monmouth | Marlboro Twp | \$7,175 | I |
| Monmouth | Millstone Twp | \$6,614 | 1 |
| Monmouth | Monmouth Beach Boro | \$7,515 | 1 |
| Monmouth | Neptune City | \$6,663 | CD |
| Monmouth | Oceanport Boro | \$7,166 | GH |
| Monmouth | Rumson Boro | \$7,833 | $J$ |
| Monmouth | Sea Girt Boro | \$11,547 | 1 |
| Monmouth | Shrewsbury Boro | \$7,467 | 1 |
| Monmouth | Spring Lake Boro | \$9,928 | 1 |
| Monmouth | Spring Lake Heights Boro | \$7,833 | FG |
| Monmouth | Tinton Falls | \$7,540 | GH |
| Monmouth | West Long Branch Boro | \$7,171 | FG |
| Morris | Boonton Twp | \$7,911 | 1 |
| Morris | Chester Twp | \$8,583 | J |
| Morris | Denville Twp | \$6,477 | 1 |
| Morris | East Hanover Twp | \$8,878 | GH |
| Morris | Florham Park Boro | \$8,410 | 1 |
| Morris | Hanover Twp | \$8,767 | 1 |
| Morris | Harding Township | \$11,727 | $J$ |
| Morris | Lincoln Park Boro | \$7,732 | FG |
| Morris | Long Hill Twp | \$7,584 | I |
| Morris | Mendham Boro | \$8,758 | J |
| Morris | Mendham Twp | \$8,742 | $J$ |
| Morris | Morris Plains Boro | \$10,256 | 1 |
| Morris | Netcong Boro | \$9,108 | DE |
| Morris | Riverdale Boro | \$9,155 | FG |
| Morris | Rockaway Boro | \$7,219 | FG |
| Morris | Rockaway Twp | \$8,872 | 1 |
| Morris | Washington Twp | \$7,293 | 1 |
| Ocean | Bay Head Boro | \$12,312 | 1 |
| Ocean | Lavallette Boro | \$11,265 | DE |


|  |  | Per Pupil Regular |
| :--- | :--- | ---: | ---: |
| County | District | Educ. Expend. | DFG

## K through 12 Districts

| County | District | Per Pupil Regular Ed. Expend. | DFG |
| :---: | :---: | :---: | :---: |
| Bergen | Bergenfield Boro | \$7,884 | FG |
| Bergen | Bogota Boro | \$8,565 | DE |
| Bergen | Cresskill Boro | \$8,485 |  |
| Bergen | Dumont Boro | \$8,987 | FG |
| Bergen | Emerson Boro | \$9,072 | GH |
| Bergen | Fair Lawn Boro | \$9,174 | GH |
| Bergen | Fort Lee Boro | \$9,458 | FG |
| Bergen | Glen Rock Boro | \$9,606 | $J$ |
| Bergen | Hasbrouck Heights Boro | \$8,871 | FG |
| Bergen | Leonia Boro | \$8,930 | GH |
| Bergen | Lodi Borough | \$7,932 | B |
| Bergen | Lyndhurst Twp | \$8,757 | DE |
| Bergen | Mahwah Twp | \$9,185 |  |
| Bergen | Midland Park Boro | \$9,040 | GH |
| Bergen | New Milford Boro | \$8,149 | FG |
| Bergen | Paramus Boro | \$9,595 | GH |
| Bergen | Park Ridge Boro | \$9,143 |  |
| Bergen | Ramsey Boro | \$8,825 |  |
| Bergen | Ridgefield Boro | \$5,998 | DE |
| Bergen | Ridgefield Park Twp | \$8,173 | DE |
| Bergen | Ridgewood Village | \$9,041 | $J$ |
| Bergen | Rutherford Boro | \$8,988 | GH |
| Bergen | Saddle Brook Twp | \$7,933 | DE |
| Bergen | Teaneck Twp | \$10,781 | GH |
| Bergen | Tenafly Boro | \$10,267 |  |
| Bergen | Waldwick Boro | \$8,719 | GH |
| Bergen | Westwood Regional | \$8,692 | GH |
| Bergen | Wood Ridge Boro | \$7,855 | FG |
| Burlington | Bordentown Regional | \$8,013 | FG |
| Burlington | Burlington Twp | \$6,640 | FG |
| Burlington | Cinnaminson Twp | \$7,918 | FG |
| Burlington | Delran Twp | \$7,302 | FG |
| Burlington | Florence Twp | \$7,858 | DE |
| Burlington | Maple Shade Twp | \$8,036 | CD |
| Burlington | Moorestown Twp | \$7,924 | 1 |
| Burlington | Palmyra Boro | \$6,891 | DE |
| Camden | Audubon Boro | \$7,550 | DE |
| Camden | Cherry Hill Twp | \$8,939 | GH |
| Camden | Collingswood Boro | \$9,111 | FG |
| Camden | Haddon Heights Boro | \$8,610 | GH |
| Camden | Haddon Twp | \$8,613 | FG |
| Camden | Haddonfield Boro | \$8,836 | $J$ |
| Cape May | Ocean City | \$12,388 | DE |


| County | District | Per Pupil Regular Ed. Expend. | DFG |
| :---: | :---: | :---: | :---: |
| Essex | Caldwell-West Caldwell | \$8,682 | 1 |
| Essex | Cedar Grove Twp | \$9,362 | I |
| Essex | Glen Ridge Boro | \$9,387 | 1 |
| Essex | Livingston Twp | \$10,158 | 1 |
| Essex | Millburn Twp | \$9,850 | J |
| Essex | Montclair Town | \$9,075 | 1 |
| Essex | Nutley Town | \$7,963 | FG |
| Essex | South Orange-Maplewood | \$9,077 | 1 |
| Essex | Verona Boro | \$7,898 | 1 |
| Essex | West Orange Town | \$9,733 | GH |
| Gloucester | Monroe Twp | \$6,437 | CD |
| Gloucester | Pitman Boro | \$8,931 | FG |
| Gloucester | Washington Twp | \$7,980 | FG |
| Gloucester | West Deptford Twp | \$7,020 | DE |
| Hudson | Bayonne City | \$6,918 | CD |
| Hudson | Kearny Town | \$8,474 | B |
| Hudson | North Bergen Twp | \$6,545 | B |
| Hudson | Secaucus Town | \$9,956 | DE |
| Mercer | East Windsor Regional | \$8,099 | GH |
| Mercer | Ewing Twp | \$8,026 | DE |
| Mercer | Hamilton Twp | \$6,976 | FG |
| Mercer | Hopewell Valley Regional | \$10,046 | 1 |
| Mercer | Lawrence Twp | \$8,507 | GH |
| Mercer | Princeton Regional | \$9,510 | 1 |
| Mercer | Washington Twp | \$7,702 | 1 |
| Mercer | W Windsor-Plainsboro Reg | \$9,175 | J |
| Middlesex | Dunellen Boro | \$7,452 | FG |
| Middlesex | East Brunswick Twp | \$8,082 | 1 |
| Middlesex | Edison Twp | \$8,174 | GH |
| Middlesex | Highland Park Boro | \$8,969 | GH |
| Middlesex | Metuchen Boro | \$9,782 | 1 |
| Middlesex | Middlesex Boro | \$8,110 | FG |
| Middlesex | Monroe Twp | \$8,800 | FG |
| Middlesex | North Brunswick Twp | \$7,957 | FG |
| Middlesex | Old Bridge Twp | \$7,513 | FG |
| Middlesex | Piscataway Twp | \$8,141 | GH |
| Middlesex | Sayreville Boro | \$6,721 | DE |
| Middlesex | South Brunswick Twp | \$8,491 | 1 |
| Middlesex | South Plainfield Boro | \$8,262 | FG |
| Middlesex | Spotswood Boro | \$8,286 | DE |
| Middlesex | Woodbridge Twp | \$7,249 | DE |
| Monmouth | Hazlet Twp | \$8,582 | DE |
| Monmouth | Holmdel Twp | \$8,689 | 1 |
| Monmouth | Manasquan Boro | \$8,302 | GH |
| Monmouth | Matawan-Aberdeen Regional | \$9,360 | FG |


| County | District | Per Pupil Regular Ed. Expend. | DFG |
| :---: | :---: | :---: | :---: |
| Monmouth | Middletown Twp | \$7,890 | GH |
| Monmouth | Ocean Twp | \$8,590 | FG |
| Monmouth | Upper Freehold Regional | \$8,448 | GH |
| Monmouth | Wall Twp | \$8,468 | GH |
| Morris | Boonton Town | \$8,897 | FG |
| Morris | Butler Boro | \$10,063 | DE |
| Morris | Sch Dist Of The Chathams | \$9,331 | $J$ |
| Morris | Jefferson Twp | \$8,337 | GH |
| Morris | Kinnelon Boro | \$8,684 | 1 |
| Morris | Madison Boro | \$9,546 | I |
| Morris | Montville Twp | \$9,146 | 1 |
| Morris | Mount Olive Twp | \$8,569 | GH |
| Morris | Mountain Lakes Boro | \$11,198 | $J$ |
| Morris | Parsippany-Troy Hills Twp | \$10,015 | GH |
| Morris | Pequannock Twp | \$8,459 | GH |
| Morris | Randolph Twp | \$8,403 | 1 |
| Morris | Roxbury Twp | \$8,539 | GH |
| Ocean | Barnegat Twp | \$8,321 | CD |
| Ocean | Brick Twp | \$6,143 | DE |
| Ocean | Jackson Twp | \$6,232 | DE |
| Ocean | Lacey Twp | \$7,535 | DE |
| Ocean | Manchester Twp | \$7,946 | B |
| Ocean | Plumsted Twp | \$6,874 | DE |
| Ocean | Point Pleasant Boro | \$7,044 | FG |
| Ocean | Point Pleasant Beach Boro | \$9,358 | FG |
| Ocean | Toms River Regional | \$7,035 | DE |
| Passaic | Hawthorne Boro | \$8,100 | DE |
| Passaic | Pompton Lakes Boro | \$8,781 | FG |
| Passaic | Wayne Twp | \$8,409 | GH |
| Passaic | West Milford Twp | \$8,218 | FG |
| Salem | Pittsgrove Twp | \$7,673 | CD |
| Salem | Woodstown-Pilesgrove Reg | \$7,982 | FG |
| Somerset | Bernards Twp | \$8,150 | J |
| Somerset | Bridgewater-Raritan Reg | \$8,023 | I |
| Somerset | Hillsborough Twp | \$7,571 | I |
| Somerset | Montgomery Twp | \$7,289 | $J$ |
| Somerset | Somerset Hills Regional | \$10,363 | I |
| Somerset | Somerville Boro | \$9,033 | FG |
| Sussex | Hopatcong | \$7,583 | FG |
| Sussex | Newton Town | \$8,601 | CD |
| Sussex | Sparta Twp | \$7,783 | I |
| Sussex | Vernon Twp | \$7,965 | FG |
| Union | Berkeley Heights Twp | \$9,432 | 1 |
| Union | Clark Twp | \$8,610 | FG |
| Union | Cranford Twp | \$8,307 | , |


| County | District | Per Pupil Regular Ed. <br> Expend. |  |
| :--- | :--- | ---: | ---: |
| Union | Kenilworth Boro | DFG |  |
| Union | New Providence Boro | $\$ 9,304$ | DE |
| Union | Roselle Park Boro | $\$ 8,939$ | I |
| Union | Scotch Plains-Fanwood Reg | $\$ 7,950$ | DE |
| Union | Springfield Twp | $\$ 8,857$ | I |
| Union | Summit City | $\$ 10,497$ | GH |
| Union | Westfield Town | $\$ 9,781$ | I |
| Warren | Hackettstown | $\$ 8,493$ | I |

# Appendix 2 <br> Expenditure Line Items Included in Regular Education Expenditure Calculation 

| Line <br> Number | Description |
| :--- | :--- |
| 2710 | Total Regular Programs - Instruction |
| 4890 | Total Basic Skills/Remedial - Instruction |
| 5070 | Total Vocational Programs - Local - Instruction |
| 6080 | Total School Sponsored Cocurricular \& Extracurricular Activities - Instruction |
| 6140 | Total School Sponsored Athletics - Instruction |
| 6200 | Total Other Instructional Programs - Instruction |
| 6260 | Total Community Services Programs/Operations |
| 6420 | Total Undistributed Expenditures - Attendance \& Social Work |
| 6480 | Total Undistributed Expenditures - Health Services |
| 6570 | Total Undistributed Expenditures - Support Services - Regular |
| 6840 | Total Undistributed Expenditures - Improvement of Instructional Services |
| 6900 | Total Undistributed Expenditures - Media Services / School Library |
| 7610 | Total Undistributed Expenditures - Instructional Staff Training Services |
| 7000 | Total Undistributed Expenditures - Support Services - General Administration |
| 7090 | Total Undistributed Expenditures - Support Services - School Administration |
| 7625 | Total Undistributed Expenditures - Required Maintenance for School Facilities |
| 7636 | Total Undistributed Expenditures - Other Oper. \& Maint. Of Plant Services |
| 7500 | Total Undistributed Expenditures - Other Support Services |
| 20210 | Allocated Benefits: Total Regular Programs - Instruction |
| 20430 | Allocated Benefits: Total Vocational Programs - Instruction |
| 20540 | Allocated Benefits: Total Other Instructional Programs - Instruction |
| 20710 | Allocated Benefits: Total Community Services Programs/Operations |
| 20820 | Allocated Benefits: Total Attendance and Social Work Services |
| 20930 | Allocated Benefits: Total Health Services |
| 21320 | Allocated Benefits: Total Other Support Services - Students - Regular |
| 21540 | Allocated Benefits: Total Improvement of Instructional Services |
| 21710 | Allocated Benefits: Total Educational Media Services / School Library |
| 21820 | Allocated Benefits: Total Instructional Staff Training Services |
| 21930 | Allocated Benefits: Total Support Services - General Administration |
| 22040 | Allocated Benefits: Total Support Services - School Administration |
| 22210 | Allocated Benefits: Total Operations and Maintenance of Plant Services |
| 22430 | Allocated Benefits: Total Business and Other Support Services |
| Unallocated |  |
| Benefits | Equipment - Preschool/Kindergarten |
| 7700 | Equipment - Grades 1 - 5 |
| 7710 | Equipment - Grades 6 - 8 |
| 7720 | Equipment - Grades 9 - 12 |
| 7730 | Equipment - Home Instruction |
| 7731 |  |


| Line | Description |
| :--- | :--- |
| Number |  |
| 7960 | Equipment - Basic Skills/Remedial - Instruction |
| 8070 | Equipment - Vocational Programs - Local - Instruction |
| 8080 | Equipment - School-Sponsored and Other Instructional Programs |
| 8090 | Equipment - Undistributed Expenditures -Instruction |
| 8100 | Equipment - Undistributed Expenditures- Support Services - Students - Regular |
| 8110 | Equipment - Undistributed Expenditures- Support Services - Students |
| 8130 | Equipment - Undistributed Expenditures- Support Services - Instr. Staff |
| 8140 | Equipment - Undistributed Expenditures- General Admin. |
| 8150 | Equipment - Undistributed Expenditures- School Admin. |
| 8155 | Equipment - Undistributed Expenditures- Central Services |
| 8156 | Equipment - Undistributed Expenditures- Admin. Information Technology |
| 8160 | Equipment - Undistributed Expenditures- Operation of Plant Services |
| 8200 | Equipment - Undistributed Expenditures- Other Support Services |
| 8210 | Equipment - Undistributed Expenditures- Non-Instructional Services |
| MINUS |  |
| Multiple | T.P.A.F. Contributions - ERIP |
| Lines |  |
| Multiple | Other Retirement Contributions - ERIP |
| Lines |  |
| 2505 | Preschool -Salaries of Teachers |
| 2506 | Local Contribution - Transfers to Special Revenue |
| 2511 | Local Contribution - Transfers to Special Revenue |
| 6980 | Judgments Against the School District |
| 7130 | Interest on Current Loans |
| 7135 | Interest on Lease Purchase Agreements |
| 7140 | Interest in Bond Anticipation Notices |
| 7355 | Increase in Sale/Lease-back Reserve |
| 7629 | Rental of Land \& Building other than Lease Purchase Agreement |
| 7620 | Increase in Maintenance Reserve |

## Appendix 3

School District Demographic Data Submitted to APA

|  | $\begin{aligned} & \hline \mathrm{K}-12 \\ & 8,000+ \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{K}-12 \\ & 4,000-7,999 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{K}-12 \\ & 1,300-3,999 \\ & \hline \end{aligned}$ | $\mathrm{K}-12$ <br> Less than 1,300 | $\begin{aligned} & \hline \hline \mathrm{K}-8 \\ & 350-600 \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{K}-8 \\ & \text { Less than } 350 \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of Districts | 31 | 53 | 107 | 27 | 54 | 40 |
| Number of Students | 419,527 | 282,511 | 262,060 | 28,734 | 26,071 | 8,669 |
| Average District Size | 13,533 | 5,330 | 2,449 | 1,064 | 483 | 217 |
| Average Number of Schools |  |  |  |  |  |  |
| Grades K - 5 | 4.4 | 2.1 | 0.9 | - | - | - |
| Grades K - 6 | - | - | - | 0.4 | - | - |
| Grades K - 8 | - | - | - | 0.1 | 0.4 | 0.7 |
| Grades 6-8 | 1.9 | 0.8 | 0.5 | - | - | - |
| Grades 9-12 | 2.0 | 1.0 | 0.8 | 0.5 | - | - |
| Average School Size |  |  |  |  |  |  |
| Grades K - 5 | 372 | 407 | 354 | - | - | - |
| Grades K - 6 | - | - | - | 319 | - | - |
| Grades K - 8 | - | - | - | 543 | 341 | 155 |
| Grades 6-8 | 691 | 738 | 525 | - | - | - |
| Grades 9-12 | 1,381 | 1,225 | 677 | 468 | - | - |
| Proportion of Students: |  |  |  |  |  |  |
| Free Lunch Eligible | 39.7 | 20.6 | 13.1 | 16.6 | 13.6 | 12.5 |
| Limited English Proficiency | 7.1 | 4.4 | 3.2 | 2.8 | 1.3 | 1.2 |
| In County Vocational Dist | 1.5 | 0.9 | 1.1 | 1.9 | 0.6 | 0.9 |


|  | $\mathrm{K}-12$ | $\mathrm{~K}-12$ | $\mathrm{~K}-12$ | $\mathrm{~K}-12$ | $\mathrm{~K}-8$ | $\mathrm{~K}-8$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathrm{~B}, 000+$ | $4,000-7,999$ | $1,300-3,999$ | Less than 1,300 | $350-600$ | Less than 350 |  |
|  |  |  |  |  |  |  |
| Special Education | 1.76 | 2.00 | 2.37 | 2.64 | 3.30 | 3.97 |
| Mild | 10.99 | 11.81 | 11.18 | 12.53 | 11.48 | 12.44 |
| Moderate | 1.73 | 1.57 | 1.67 | 1.86 | 1.82 | 1.51 |
| Severe |  |  |  |  |  |  |

Appendix 3-2

# Appendix 4 <br> Materials Provided to Professional Judgment Panel Participants 

## BACKGROUND FOR HYPOTHETICAL SCHOOL AND DISTRICT PANELS

The task you are undertaking over the next three days is part of the work Augenblick \& Myers, Inc. (A\&M) is doing for the New Jersey Department of Education (DOE). DOE is undertaking a variety of studies to support a recommendation for a new state aid formula to be used in 2004-05. The purpose of the studies is to create a rational basis for the parameters that "drive" the allocation of state aid. Two of the studies are designed to estimate the fiscal needs of every school district in the state: (1) one study uses the "professional judgement" approach to estimate a base cost figure, common to all students, and some of the adjustments to that figure that take into consideration the higher costs associated with students with special needs as well as school district grade configuration and enrollment level and (2) another study uses the "successful school district" approach to estimate a base cost figure. For the next few days, you will be participating in activities designed to implement the professional judgement approach.

In order to fulfill the objectives of the professional judgement approach, $\mathrm{A} \& \mathrm{M}$ will be facilitating the work of multiple panels of people whose job is to identify the resources needed by hypothetical schools and school districts so that students will be able to meet a variety of state standards related to elementary and secondary education. You are a member of the first panel, which will be specifying the resource needs of elementary, middle, and high schools of different size in school districts of different size. In February, five different panels (one for each size hypothetical school district) composed of people who work in school districts throughout the state will be reviewing your work. In March, a final panel will review the work of the five panels and provide some advice about the resource prices that should be used in costing out the resources that will have been identified. In the end, DOE will develop, with assistance from A\&M, a base cost figure as well as several adjustments in recognition of the higher costs of certain programs, such as special education. These figures will then be used in developing the new state aid system.

The professional judgement approach has been used in other states to estimate the cost of meeting state standards (what is sometimes described as the cost of an adequate education, or adequacy). For example, under court order, Wyoming used the approach to specify the cost of those resources groups of professional educators, like you, thought were necessary to fulfill state education requirements. The approach has also been used in places such as Colorado, Indiana, Kansas, Missouri, Maryland, Montana, Nebraska, New York, Oregon, South Carolina, and Wisconsin to study education costs. In 2002, the Maryland legislature used the recommendations of a state study group that had used the professional judgement approach as the basis for changing the school finance system. While there are many variations of the professional judgement approach, they all are used under the same general assumption: a group
of experienced people can specify the resource needs of hypothetical schools once they know what the schools are expected to accomplish.

It is important to remember that none of the panels that will meet between now and March is charged with designing the best possible schools or school district. The purpose of the exercise is not to build a school that fulfills every fantasy you ever had about what the very best school should look like. Rather, you need to design schools/districts that meets the objectives that the state has identified - and only those objectives. We, and DOE, are relying on your professional judgement about what resources are needed to assure that students, and schools, can meet those objectives, including the kinds of courses that should be offered, the numbers of people that should be employed, the ancillary activities and expenses needed to support those programs and people, and so on.

We will provide you with a lot of additional material about the state's objectives, about the characteristics of hypothetical schools, and about how to report the resources you feel are necessary. You will be given time to discuss the approaches you want to take to organize the hypothetical schools. It is important to remember that this is a collaborative process. We strongly encourage the panel to reach consensus about each of the important decisions you will be asked to make. A team from A\&M will be with you over the three days to provide assistance to you - to facilitate the process by answering questions, taking notes, and recording your decisions but not to influence the choices you make.

One thing we need you to think about as you go about your work is how to distinguish the resources needed to educate regular students from those needed to educate students with special needs. Given DOE's objectives, we need to be able to separate the resources you believe are required to serve pupils with special education needs, pupils at risk of failing in school, and students with limited English proficiency (LEP) pupils.

Just so you know A\&M is a Denver based consulting firm that works almost exclusively with state level policymakers on issues related to funding education. Today you will be working with John Augenblick, Justin Silverstein, and Jennifer Sharp from A\&M.

# INSTRUCTIONS TO NEW JERSEY DEPARTMENT OF EDUCATION PROFESSIONAL JUDGEMENT PANEL MEMBERS 

Augenblick \& Myers, Inc.<br>Denver, Colorado

January 21-23, 2003
Trenton, New Jersey

1. You are a member of a panel that is being asked to design multiple sets of hypothetical schools -elementary, middle, and high school. This group is also responsible for designing the district level organization that would include several hypothetical schools. The hypothetical schools and school districts are hypothetical -they do not exist and they may never be created. They are a convenient way to identify the resources that schools with a particular set of characteristics should have in order to accomplish a specific set of objectives.
2. This panel will be working today, tomorrow, and Thursday. On the first day we will focus on elementary school districts (K-8) -identifying resources for both schools and the school district in two different size districts. We will also begin identifying school level resources for a small K-12 district. On the second day we will review the work of the first day and then identify the resources for hypothetical schools in a moderately-sized district, a large district, and a very large district. Finally, on Thursday, we will review the work of the previous day and then identify the resources needed at the district level for moderate, large, and very large districts.
3. The characteristics of the hypothetical schools and school districts are shown on a separate page. The characteristics that define the schools include their enrollment, grade span, the proportion of pupils with special education needs, the proportion of pupils with limited English proficiency (LEP), and the proportion of students at risk of failure (as identified by using free lunch eligibility as a proxy).
4. The objectives that need to be accomplished by the hypothetical schools are shown on a separate page. The objectives can be described broadly as either education opportunities/programs/ services or as levels of student performance. These objectives are shown on separate sheet of paper.
5. In designing hypothetical schools or school districts, we need you to provide some very specific information so that a cost of the resources needed to meet the above objectives can be calculated. The fact that we need this information should
not constrain you in anyway in designing the hypotheticals. Your job is to create a set of programs/curriculums designed to serves students with particular needs in such a way that the specified objectives are met. Use your experience and expertise to organize personnel, supplies and materials, and technology in any way you feel confident will produce the desired outcomes.
6. You can make certain assumptions about the hypothetical schools and the environment in which they exist. These assumptions may not characterize the school, or the school district, in which you work and we will devote some time to discussing the assumptions after you have completed your work.

Teachers: You should assume that you can attract and retain qualified personnel and that you can employ people on a part-time basis if needed (based on tenths of a full-time equivalent person).

Facilities: You should assume that the hypothetical school has sufficient space to meet the requirements of the program you design.

Revenues: You should not be concerned about where revenues will come from to pay for the program you design. Don't worry about federal or state requirements that may be associated with some kinds of funding. You should not think about whatever revenues might be available in the school or district in which you work or about any of the revenue constraints that might exist on those revenues.

Timing: You may create new programs or services that do not presently exist that you believe address problems that arise in schools. You should assume that such programs or services are in place and that no additional time is needed for them to produce the results you expect of them.
2. We encourage you to be creative and innovative. There is no single "right" approach to the task. For example:

- You may base your design on a "whole-school approach" (such as Roots and Wings), a charter school approach (such as Edison), or any other philosophical basis (such as Montessori) with which you are familiar.
- You may want to use block scheduling.
- You may want to have a longer or shorter school day or a longer or shorter school year (for some or for all students) than you use currently.
- You may expect some students to obtain some courses using education television, the internet, or through experiences in the community or in post-secondary education.
- You may choose to supplement professional staff with community volunteers.

This summary provides information on New Jersey's Core Curriculum Content Standards and state requirements that potentially impact the cost of providing a thorough and efficient education. Section I outlines the state's standards in the nine content areas. Section II shows the level of success districts are expected to achieve on the statewide assessment exams linked to these standards. Section III highlights the courses and numbers of credits students are required to take in high school in order to receive a diploma. Section IV summarizes state requirements regarding the length of the school day and year.

## I: Core Curriculum Content Standards

The Core Curriculum Content Standards (Standards) define what all students must know and be able to do by the end of their public school education. The Standards specify expectations in nine content areas.

## Visual and Performing Arts

Standard 1.1 (Aesthetics) All students will utilize and synthesize aesthetic knowledge and skills in response to dance, music, theater, and visual art.

Standard 1.2 (Creation and Performance) All students will utilize those skills, media, methods, and technologies appropriate to each art form in the creation, performance and presentation of dance, music, theater, and visual art.

Standard 1.3 (Elements and Principles) All students will demonstrate an understanding of the elements and principles of dance, music, theater, and visual art.

Standard 1.4 (Critique) All students will apply, develop, and reflect knowledge of the process of critique.

Standard 1.5 (History/Culture) All students will understand and analyze the role, development, and continuing influence of the arts in relation to world cultures, history, and society.

## Comprehensive Health and Physical Education

Standard 2.1 (Health Promotion) All students will achieve optimal wellness by learning and applying health promotion concepts and skills.

Standard 2.2 (Life Skills) All students will achieve optimal wellness by learning and applying personal, interpersonal, and life skills.

Standard 2.3 (Drugs and Medicines) All students will achieve optimal wellness by learning and applying substance abuse prevention concepts and skills.

Standard 2.4 (Human Sexuality and Family Life) All students will achieve optimal wellness by learning and applying concepts and skills that support healthy sexuality and positive personal relationships.

Standard 2.5 (Movement) All students will achieve optimal wellness by learning and applying movement concepts and skills.

Standard 2.6 (Fitness) All students will achieve optimal wellness by learning and applying fitness concepts and skills.

## Language Arts Literacy

Standard 3.1 (Reading) All students will understand and apply the knowledge of sounds, letters, and words in written English to become independent and fluent readers, and will read a variety of materials and texts with fluency and comprehension.

Standard 3.2 (Writing) All students will write in clear, concise, organized language that varies in content and form for different audiences and purposes.

Standard 3.3 (Speaking) All students will speak in clear, concise, organized language that varies in content and form for different audiences and purposes.

Standard 3.4 (Listening) All students will listen actively to information from a variety of sources in a variety of situations.

Standard 3.5 (Viewing and Media Literacy) All students will access, view, evaluate, and respond to print, nonprint, and electronic texts and resources.

## Mathematics

Standard 4.1 (Number and Numerical Operations) All students will develop number sense and will perform standard numerical operations and estimations on all types of numbers in a variety of ways.

Standard 4.2 (Geometry and Measurement) All students will develop spatial sense and the ability to use geometric properties, relationships, and measurement to model, describe and analyze phenomena.

Standard 4.3 (Patterns and Algebra) All students will represent and analyze relationships among variable quantities and solve problems involving patterns, functions, and algebraic concepts and processes.

Standard 4.4 (Data Analysis, Probability, and Discrete Mathematics) All students will develop an understanding of the concepts and techniques of data analysis, probability, and discrete mathematics, and will use them to model situations, solve problems, and analyze and draw appropriate inferences from data.

Standard 4.5 (Mathematical Processes) All students will use mathematical processes of problem solving, communication, connections, reasoning, representations, and technology to solve problems and communicate mathematical ideas.

## Science

Standard 5.1 (Scientific Processes) All students will develop problem-solving, decisionmaking and inquiry skills, reflected by formulating usable questions and hypotheses, planning experiments, conducting systematic observations, interpreting and analyzing data, drawing conclusions, and communicating results.

Standard 5.2 (Science and Society) All students will develop an understanding of how people of various cultures have contributed to the advancement of science and technology, and how major discoveries and events have advanced science and technology.

Standard 5.3 (Mathematical Applications) All students will integrate mathematics as a tool for problem-solving in science, and as a means of expressing and/or modeling scientific theories.

Standard 5.4

Standard 5.5 (Characteristics of Life) All students will gain an understanding of the structure, characteristics, and basic needs of organisms and will investigate the diversity of life.

Standard 5.6 (Chemistry) All students will gain an understanding of the structure and behavior of matter.

Standard 5.7 (Physics) All students will gain an understanding of natural laws as they apply to motion, forces, and energy transformations.

Standard 5.8 (Earth Science) All students will gain an understanding of the structure, dynamics, and geophysical systems of the earth.

Standard 5.9

Standard 5.10
$\underline{\text { Social Studies }}$
Standard 6.1

Standard 6.2

Standard 6.3

Standard 6.4

Standard 6.5

Standard 6.6

Standard 6.7

Standard 6.8

Standard 6.9 (Sociology and Anthropology) All students will demonstrate understanding of societal and cultural structures and functions and how they have contributed and continue to contribute to our everyday experience.

Standard 7.1 (Communication) All students will be able to communicate in at least one world language in addition to English. They will use language to: engage in conversation; understand and interpret spoken and written language; present information, concepts, and ideas while making connections with other disciplines; compare the language/culture studied with their own; and participate in multilingual communities.

Standard 7.2 (Culture) All students will demonstrate an understanding of the perspectives of a culture(s) through experiences with its products and practices.

## Technological Literacy

Standard 8.1 (Computer Applications) All students will use computer applications to manipulate and communicate information.

Standard 8.2 (Technology Education) All students will develop an understanding of the nature and impact of technology, engineering, technological design, and the designed world as they relate to the individual, society, and the environment.

## Career Education and Life Skills

Standard 9.1 (Career Awareness) All students will develop career awareness, planning, and employability skills.

Standard 9.2 (Career/Technical Arts) All students will demonstrate career planning and employability skills, and develop the foundational knowledge and skills necessary for further study in a selected occupational area.

Standard 9.3 (Critical Thinking) All students will use critical thinking, decision-making and problem solving skills.

Standard 9.4 (Self-Management) All students will demonstrate interpersonal and selfmanagement skills.

## II: Assessment Criteria

The Standards are further delineated by cumulative progress indicators for each benchmark grade level. The statewide assessment system is designed to measure student progress towards achieving the standards. Districts are evaluated based on the percent of students (overall as well as subpopulations) that test at the proficient level or better according to the following schedules.

Grades 3 through 5 Exams

|  | Language Arts Literacy | Mathematics |
| :--- | :--- | :--- |
| $2004-2005$ | 75 | 62 |
| $2007-2008$ | 82 | 73 |
| $2010-2011$ | 91 | 88 |
| $2013-2014$ | 100 | 100 |

Grades 6 through 8 Exams

|  | Language Arts Literacy | Mathematics |
| :--- | :--- | :--- |
| $2004-2005$ | 66 | 49 |
| $2007-2008$ | 76 | 62 |
| $2010-2011$ | 87 | 79 |
| $2013-2014$ | 100 | 100 |

Grades 11 Exam

|  | Language Arts Literacy | Mathematics |
| :--- | :--- | :--- |
| $2004-2005$ | 79 | 64 |
| $2007-2008$ | 85 | 74 |
| $2010-2011$ | 92 | 86 |
| $2013-2014$ | 100 | 100 |

## III: Graduation Requirements ${ }^{19}$

Completion of at least 110 credits (equivalent of 22 courses)

- At least 20 credits in language arts literacy
- At least 15 credits in mathematics
- At least 15 credits in science
- At least 15 credits in social studies
- At least 3.75 credits per year in health, safety, and physical education (distributed over 150 minutes per week)
- At least 5 credits in visual and performing arts
- At least 5 credits in technological literacy, career education, and life skills
- At least 5 credits in world languages.

IV: Other Requirements
$\begin{array}{ll}\text { Length of School Year: } & 180 \text { days } \\ \text { Length of School Day: } & \begin{array}{l}\text { Minimum of } 4 \text { hours of instructional time }(2.5 \text { hours for } \\ \text { kindergarten })\end{array}\end{array}$

[^10]
# Appendix 5 <br> Organizations from which Professional Judgment Panel Nominations Were Requested 

Education Law Center<br>Garden State Coalition of Schools<br>New Jersey Association of Supervision and Curriculum Development<br>New Jersey Association of School Administrators<br>New Jersey Association of School Business Officials<br>New Jersey Education Association<br>New Jersey Principals and Supervisors Association<br>New Jersey School Boards Association<br>Public Education Institute

## Appendix 6 Professional Judgment Panel Invitees - Round $\mathbf{1}^{20}$

| Name | Title | Affiliation |
| :--- | :--- | :--- |
| Ms. Eunice Couselo | Director | Office of Special Populations |
| Dr. Bruce Greenfield | County Superintendent | Ocean County |
| Ms. Vicky Guo | County Business Administrator | Hudson County |
| Dr. Michael Klavon | Director | Office of Vocational/Technical, Career and Innovative Programs |
| Dr. Robert Riehs | Educ. Prog. Development Spec. | Office of Academic and Professional Standards |
| Dr. Judith Weiss | Assistant Commissioner | Northern Regional Services |
| Ms. Melinda Zangrillo | Planning Associate | Office of Special Education Programs |

[^11]
## Appendix 7 <br> Professional Judgment Panel Invitees - Round 2

| Name | Title | Affiliation |
| :---: | :---: | :---: |
| Mr. Steven Block | Director | Education Law Center |
| Mr. Anthony Campisi | WSR Facilitator | Paterson School District |
| Mr. Samuel Citron | Principal | Voorhees Middle School (Voorhees Twp Public Schools) |
| Ms. Gail Cohen | Assistant to the Superintendent | Cherry Hill Public Schools |
| Mr. Angelo DeSimone | Business Administrator | Hawthorne Public Schools |
| Ms. Mary Ellen Eck | Superintendent | Riverton Public School |
| Ms. Annette Edmonds | School Business Administrator | Greenwich Township School District |
| Mr. Richard Flamini | Supervisor | South Plainfield Board of Education |
| Ms. Edithe Fulton | President | New Jersey Education Association |
| Ms. Elizabeth George | School Business Administrator | Mount Arlington Public School |
| Dr. Bertha Henson | Supervisor of Instruction | Vineland City Board of Education |
| Ms. Carmen Holster | Principal | Washington Elementary School (Little Ferry Public Schools) |
| Mr. Richard Horowitz | Principal | J. Fithian Tatem Elementary School (Haddonfield Public Schools) |
| Ms. Kelly Ippolito | School Business Administrator | Cresskill Public Schools |
| Mr. Paul Kadri | Superintendent | Moorestown Public Schools |
| Dr. Carole Kernan | Director of Special Services | Summit Public Schools |
| Mr. John Knorr | School Board Member | Galloway Township Public Schools |
| Dr. Richard Konet | Principal | Parsippany High School |
| Dr. Ted Kozlik | Director of Special Services | Westfield Public Schools |
| Ms. Suzane Krewson | Teacher | Holland Township School |
| Dr. Walter Mahler | Superintendent | Springfield Public Schools |
| Dr. Thomas McMahon | Superintendent | Barnegat Township School District |
| Mr. Robert Murphy | Principal | East Brunswick High School (East Brunswick Public Schools) |
| Dr. Charles Murray | Superintendent | Mercer Co. Special Services School District |
| Mr. Joseph Pompeo | Principal | Wallington High School (Wallington Public Schools) |
| Mr. Robert Reid | Principal | Wildwood Elementary School (Mountain Lakes School District) |
| Dr. Lester Richens | Superintendent | Belmar Public Schools |
| Dr. Andrew Rinko | Superintendent | Bedminster Schools |
| Mr. Lou Ripatrazone | Superintendent | Roxbury Public Schools |
| Ms. Magda Savino | Principal | Joseph H. Brensinger Elementary School (Jersey City Public Schools) |
| Mr. Jeff Scott | Asst. Sup. for Business | South Brunswick Public Schools |
| Mr. David Shaftner | Business Administrator | East Windsor Regional School District |
| Mr. Richard Sullivan | Assistant Director | New Jersey School Boards Association |
| Ms. Regina Swierc | Superintendent | Warren Co. Special Services School District |
| Mr. Jerry Tarnoff | Superintendent | West Orange Public Schools |
| Mr. Dennis Ventrello | Principal | Brookside Elementary School (Monroe Twp School District) |
| Dr. Carmina Villa | WSR Facilitator | Long Branch School District |
| Ms. Barbara Williams | Director | Irvington Board of Education |
| Mr. Fred Wright | Business Administrator | Eastern Camden County Regional School District |
| Dr. Debra Zamparelli | Director | Tinton Falls Board of Education |

# Appendix 8 <br> Professional Judgment Panel Invitees - Round 3 

| Name | Title | Affiliation |
| :--- | :--- | :--- |
| Dr. Pablo Clausell | Superintendent | Perth Amboy Public Schools |
| Dr. Jacqueline Cusack | Superintendent | Pequannock Township Public Schools |
| Dr. Len Elovitz | Professor | Kean University, College of Education |
| Mr. Peter Genovese | School Business Administrator | Long Branch Public Schools |
| Dr. Patricia Hoey | Superintendent | Harrison Township School District |
| Mr. Brian O'Leary | School Board Member | South Orange-Maplewood Public Schools |
| Mr. Bruce Quinn | Superintendent | Matawan-Aberdeen Regional School District |
| Dr. Morton Sherman | Superintendent | Cherry Hill Public Schools |

## Appendix 9

Final Professional Judgment Panel Resources

## Appendix 9: Table 1.A Very Small K-8 School District <br> Elementary School Model <br> General, LEP and Special Education

|  | Regular Education | LEP | Spec. Education - Mild | Spec. Education Moderate | Spec. Education Severe |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 225 | 3 | 9 | 28 | 3 |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 13.0 | 0.4 |  |  | 1.0 |
| Other Teachers | 2.5 |  |  |  |  |
| Instructional Aides |  |  |  | 2.0 | 3.0 |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 |  | 10 days @ \$100 | 10 days @ \$100 |
| Resource Teacher |  |  |  | 3.0 |  |
| Self-Contained Teacher |  |  |  | 2.0 |  |
| Support Staff |  |  |  |  |  |
| Librarians / Media Specialists | 1.0 |  |  |  |  |
| Technology Specialists | 1.0 |  |  |  |  |
| Counselors | 1.0 |  |  |  |  |
| Nurses | 1.0 |  |  |  |  |
| Psychologists |  |  | 0.1 | 0.2 | 0.1 |
| Social Workers |  |  | 0.1 | 0.2 | 0.1 |
| LDTC |  |  | 0.1 | 0.2 | 0.1 |
| Speech Therapist |  |  | 0.2 | 0.2 | 0.2 |
| Occupational Therapist |  |  |  | 0.1 | 0.2 |
| Physical Therapist |  |  |  | 0.1 | 0.2 |
| Administrative Staff |  |  |  |  |  |
| Principal | 0.0 |  |  |  |  |
| Assistant Principal | 0.5 |  |  |  |  |
| Clerical / Data Entry | 2.0 |  |  |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$300 / pupil | \$50 / pupil | \$25 / pupil | \$50 / pupil | \$150 / pupil |
| Equipment | \$50 / pupil |  |  |  |  |
| Technology | \$150 / pupil |  |  |  |  |
| Assessment | \$5,000 | \$50 / pupil |  | \$1,350 | \$3,000 |
| State Assessment | \$35 / tested pupil |  |  |  |  |
| Student Activities | \$100 / pupil |  |  |  |  |
| Safety \& Security | \$7,500 |  |  |  |  |

Appendix 9-2

## Appendix 9: Table 1.B

## Very Small K-8 School District

## Elementary School Model

## At-Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk Concentration |
| :--- | ---: | ---: |
| Enrollment | 23 | 46 |
|  |  |  |
| Instructional Staff |  |  |
| Instructional Aides | 1.0 | 2.0 |
| Reading Specialists / Basic Skills |  | 2.0 |
| Substitute Teachers |  | 10 days @ $\$ 100$ |
| Support Staff |  |  |
| Social Workers |  |  |
| Parent Liaison | $\$ 1,250 /$ personnel |  |
| Other Costs | $\$ 50 /$ pupil | $\$ 1,250 /$ personnel |
| Professional Development |  | $\$ 50 /$ pupil |
| Supplies \& Materials |  |  |

## Appendix 9: Table 1.C

## Very Small K-8 School District <br> Elementary School Model <br> Other Education Programs

|  | Gifted \& Talented | Special Education Preschool | Extended School Year | After School Programs | Summer School Programs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 15 | 5 | 12 | ½ At-Risk, LEP \& Special Ed | $\begin{aligned} & 1 / 2 \text { At-Risk, LEP } \\ & 18 \text { Special Ed } \end{aligned}$ |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 0.1 | 1.0 | 2.0 |  |  |
| Other Teachers |  |  |  |  |  |
| Instructional Aides |  | 1.0 | 4.0 |  |  |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 | 10 days @ \$100 |  |  |
| Support Staff |  |  |  |  |  |
| Nurses |  |  |  |  |  |
| Psychologists |  | 0.1 |  |  |  |
| Social Workers |  | 0.1 |  |  |  |
| LDTC |  | 0.1 |  |  |  |
| Speech Therapist |  | 0.1 | 0.6 |  |  |
| Occupational Therapist |  | 0.05 | 0.2 |  |  |
| Physical Therapist |  | 0.05 | 0.2 |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development |  | \$1,250 / personnel |  |  |  |
| Supplies \& Materials | \$50 / pupil | \$200 / pupil | \$50 / pupil |  |  |
| Equipment |  | \$50 / pupil |  |  |  |
| Assessment |  | \$25 / pupil |  |  |  |
| Other |  |  |  | \$480 / pupil | \$400 / pupil |

Appendix 9: Table 2.A
Small K-8 School District
Elementary School Model
General, LEP and Special Education

|  | Regular Education | LEP | Spec. Education - Mild | Spec. Education Moderate | Spec. Education Severe |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 495 | 6 | 17 | 57 | 9 |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 27.0 | 0.4 |  |  | 2.0 |
| Other Teachers | 5.5 |  |  |  |  |
| Instructional Aides |  |  |  | 3.0 | 5.0 |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 |  | 10 days @ \$100 | 10 days @ \$100 |
| Resource Teacher |  |  |  | 5.0 |  |
| Self-Contained Teacher |  |  |  | 3.5 |  |
| Support Staff |  |  |  |  |  |
| Librarians / Media Specialists | 1.0 |  |  |  |  |
| Media Aides | 1.0 |  |  |  |  |
| Technology Specialists | 1.0 |  |  |  |  |
| Counselors | 1.0 |  |  |  |  |
| Nurses | 1.0 |  |  |  |  |
| Psychologists |  |  | 0.1 | 0.4 | 0.3 |
| Social Workers |  |  | 0.1 | 0.4 | 0.3 |
| LDTC |  |  | 0.1 | 0.4 | 0.3 |
| Speech Therapist |  |  | 0.3 | 0.5 | 0.6 |
| Occupational Therapist |  |  |  | 0.2 | 0.3 |
| Physical Therapist |  |  |  | 0.2 | 0.3 |
| Administrative Staff |  |  |  |  |  |
| Principal | 0.0 |  |  |  |  |
| Assistant Principal | 0.5 |  |  |  |  |
| Clerical / Data Entry | 2.0 |  |  |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$300 / pupil | \$50 / pupil | \$25 / pupil | \$50 / pupil | \$150 / pupil |
| Equipment | \$50 / pupil |  |  |  |  |
| Technology | \$150 / pupil |  |  | \$2,700 | \$9,000 |
| Assessment | \$11,000 | \$50 / pupil |  |  |  |
| State Assessment | \$35 / tested pupil |  |  |  |  |
| Student Activities K - 5 | \$50 / pupil |  |  |  |  |
| Student Activities 6-8 | \$150 / pupil |  |  |  |  |
| Safety \& Security | \$7,500 |  |  |  |  |

Appendix 9-5

## Appendix 9: Table 2.B

## Small K-8 School District <br> Elementary School Model <br> At-Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk Concentration |
| :--- | ---: | ---: |
| Enrollment | 50 | 99 |
|  |  |  |
| Instructional Staff | 2.0 | 4.0 |
| Instructional Aides | 2.0 | 4.0 |
| Reading Specialists / Basic Skills | 10 days @ $\$ 100$ | 10 days @ $\$ 100$ |
| Substitute Teachers |  |  |
| Support Staff |  |  |
| Social Workers |  | $\$ 1,250 /$ personnel |
| Parent Liaison | $\$ 50 /$ pupil |  |
| Other Costs |  |  |
| Professional Development | $\$ 1,250 /$ personnel |  |
| Supplies \& Materials | $\$ 50 /$ pupil |  |

Appendix 9: Table 2.C
Small K-8 School District
Elementary School Model
Other Education Programs

|  | Gifted \& Talented | Special Education Preschool | Extended School Year | After School Programs | Summer School Programs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 33 | 11 | 20 | 1/2 At-Risk, LEP \& Special Ed | $\begin{array}{r} 1 / 2 \text { At-Risk, LEP \& } 37 \\ \text { Special Ed } \end{array}$ |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 0.2 | 2.0 | 3.0 |  |  |
| Other Teachers |  |  |  |  |  |
| Instructional Aides |  | 2.0 | 6.0 |  |  |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 | 10 days @ \$100 |  |  |
| Support Staff |  |  |  |  |  |
| Nurses |  |  |  |  |  |
| Psychologists |  | 0.2 |  |  |  |
| Social Workers |  | 0.2 |  |  |  |
| LDTC |  | 0.2 |  |  |  |
| Speech Therapist |  | 0.2 | 1.0 |  |  |
| Occupational Therapist |  | 0.2 | 0.4 |  |  |
| Physical Therapist |  | 0.2 | 0.4 |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development |  | \$1,250 / personnel |  |  |  |
| Supplies \& Materials | \$50 / pupil | \$200 / pupil | \$50 / pupil |  |  |
| Equipment |  | \$50 / pupil |  |  |  |
| Assessment |  | \$25 / pupil |  |  |  |
| Other |  |  |  | \$480 / pupil | \$400 / pupil |

Appendix 9-7

## Appendix 9: Table 3.A

## Small K-12 School District

Elementary School Model
General, LEP and Special Education

|  | Regular Education | LEP | Spec. Education - Mild | Spec. Education Moderate | Spec. Education Severe |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 720 | 20 | 19 | 90 | 14 |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 40.0 | 1.0 |  |  | 2.0 |
| Other Teachers | 9.0 |  |  |  |  |
| Instructional Aides |  |  |  | 3.0 | 6.0 |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 |  | 10 days @ \$100 | 10 days @ \$100 |
| Resource Teacher |  |  |  | 8.0 |  |
| Self-Contained Teacher |  |  |  | 3.0 |  |
| Support Staff |  |  |  |  |  |
| Librarians / Media Specialists | 1.0 |  |  |  |  |
| Media Aides | 1.0 |  |  |  |  |
| Technology Specialists | 2.0 |  |  |  |  |
| Counselors | 2.0 |  |  |  |  |
| Nurses | 1.0 |  |  |  |  |
| Psychologists |  |  |  |  |  |
| Speech Therapist |  |  | 0.3 | 0.7 | 1.0 |
| Occupational Therapist |  |  |  | 0.2 | 0.6 |
| Physical Therapist |  |  |  | 0.2 | 0.4 |
| Administrative Staff |  |  |  |  |  |
| Principal | 1.0 |  |  |  |  |
| Assistant Principal | 1.0 |  |  |  |  |
| Clerical / Data Entry | 2.5 |  |  |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$300 / pupil | \$50 / pupil | \$25 / pupil | \$50 / pupil | \$150 / pupil |
| Equipment | \$50 / pupil |  |  | \$50/pupil | \$100 / pupil |
| Technology | \$150 / pupil |  |  | \$3,000 | \$10,000 |
| Assessment | \$16,000 | \$50 / pupil |  |  |  |
| State Assessment | \$35 / tested pupil |  |  |  |  |
| Student Activities K-5 | \$50 / pupil |  |  |  |  |
| Student Activities 6-8 | \$150/pupil |  |  |  |  |
| Safety \& Security | \$7,500 |  |  |  |  |

## Appendix 9: Table 3.B

## Small K-12 School District

## Elementary School Model

## At-Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk Concentration |
| :--- | ---: | ---: |
| Enrollment | 72 | 144 |
|  |  |  |
| Instructional Staff | 3.0 | 6.0 |
| Instructional Aides | 3.0 | 6.0 |
| Reading Specialists / Basic Skills | 10 days @ $\$ 100$ | 10 days @ $\$ 100$ |
| Substitute Teachers |  |  |
| Support Staff |  |  |
| Social Workers |  |  |
| Parent Liaison | $\$ 1,250 /$ personnel | $\$ 1,250 /$ personnel |
| Other Costs | $\$ 50 /$ pupil | $\$ 50 /$ pupil |
| Professional Development |  |  |
| Supplies \& Materials |  |  |

Appendix 9: Table 3.C
Small K-12 School District
Elementary School Model
Other Education Programs

|  | Gifted \& Talented | Special Education Preschool | Extended School Year | After School Programs | Summer School Programs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 50 | 16 | 24 | ½ At-Risk, LEP \& Special Ed | ½ At-Risk, LEP \& 40 Special Ed |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 0.3 | 2.0 | 3.0 |  |  |
| Other Teachers |  |  |  |  |  |
| Instructional Aides |  | 4.0 | 6.0 |  |  |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 | 10 days @ \$100 |  |  |
| Support Staff |  |  |  |  |  |
| Nurses |  |  | 1.0 |  |  |
| Psychologists |  |  |  |  |  |
| Social Workers |  |  |  |  |  |
| LDTC |  |  |  |  |  |
| Speech Therapist |  |  | 1.0 |  |  |
| Occupational Therapist |  |  | 0.5 |  |  |
| Physical Therapist |  |  | 0.5 |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development |  | \$1,250 / personnel |  |  |  |
| Supplies \& Materials | \$50 / pupil | \$250 / pupil | \$20 / pupil |  |  |
| Equipment |  | \$50 / pupil |  |  |  |
| Assessment |  | \$25 / pupil |  |  |  |
| Other |  |  |  | \$480 / pupil | \$400 / pupil |

## Appendix 9: Table 3.D

## Small K-12 School District

High School Model
General, LEP and Special Education

|  | Regular Education | LEP | Spec. Education - Mild | Spec. Education Moderate | Spec. Education Severe |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 320 | 9 | 8 | 40 | 6 |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 28.0 | 0.5 |  |  | 1.0 |
| Other Teachers |  |  |  |  |  |
| Instructional Aides |  |  |  |  | 2.0 |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 |  | 10 days @ \$100 | 10 days @ \$100 |
| Resource Teacher |  |  |  | 4.0 |  |
| Self-Contained Teacher |  |  |  | 2.0 |  |
| Support Staff |  |  |  |  |  |
| Librarians / Media Specialists | 1.0 |  |  |  |  |
| Media Aides |  |  |  |  |  |
| Technology Specialists | 1.0 |  |  |  |  |
| Counselors | 2.0 |  |  |  |  |
| Nurses | 1.0 |  |  |  |  |
| Lunchroom Aides |  |  |  |  |  |
| Speech Therapist |  |  | 0.1 | 0.2 | 0.2 |
| Occupational Therapist |  |  |  |  | 0.1 |
| Physical Therapist |  |  |  |  | 0.1 |
| Administrative Staff |  |  |  |  |  |
| Principal | 1.0 |  |  |  |  |
| Assistant Principal | 1.0 |  |  |  |  |
| Department Chairs |  |  |  |  |  |
| Clerical / Data Entry | 4.0 |  |  |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$400 / pupil | $\$ 50 / \text { pupil }$ | $\$ 25 \text { / pupil }$ | \$50 / pupil | \$150 / pupil |
| Equipment | \$75/pupil |  |  |  |  |
| Technology | \$150 / pupil |  |  | \$2,300 | \$850 |
| Assessment | \$10,000 | \$50 / pupil |  |  |  |
| State Assessment | \$35 / tested pupil |  |  |  |  |
| Student Activities | \$600 / pupil |  |  |  |  |
| Security Guard | $1.0$ |  |  |  |  |
| Safety \& Security | \$10,000 |  |  |  |  |

## Appendix 9: Table 3.E

Small K-12 School District
High School Model
At-Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk Concentration |
| :--- | ---: | ---: |
| Enrollment | 32 | 64 |
| Instructional Staff |  |  |
| Classroom Teacher | 1.0 | 1.0 |
| Substitute Teachers | 10 days @ $\$ 100$ | 10 days $@ \$ 100$ |
| Other Costs | $\$ 1,250 /$ personnel | $\$ 1,250 /$ personnel |
| Professional Development | $\$ 50 /$ pupil |  |
| Supplies \& Materials |  |  |

## Appendix 9: Table 3.F

## Small K-12 School District <br> High School Model <br> Other Education Programs

|  | Extended School Year | After School Programs |  | Summer School Programs |
| :---: | :---: | :---: | :---: | :---: |
| Enrollment | 11 | At-Risk Students - Low Concentration | At-Risk Students - <br> Moderate Concentration | $1 / 2$ At-Risk, LEP \& 20 Special Ed |
| Instructional Staff |  |  |  |  |
| Classroom Teachers | 2.0 |  |  |  |
| Instructional Aides | 2.0 |  |  |  |
| Substitute Teachers | 10 days @ \$100 |  |  |  |
| Support Staff |  |  |  |  |
| Nurses |  |  |  |  |
| Speech Therapist | 18 hours @ \$75/hour |  |  |  |
| Occupational Therapist | 18 hours @ \$150/hour |  |  |  |
| Physical Therapist | 18 hours@\$150/hour |  |  |  |
| Other Costs |  |  |  |  |
| Other |  | \$9,000 | \$18,000 | \$360 / pupil |

## Appendix 9: Table 4.A

## Moderate, Large and Very Large K-12 School District <br> Elementary School Model <br> General, LEP and Special Education

|  | Regular Education | LEP | Spec. Education - Mild | Spec. Education - <br> Moderate |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Enrollment |  |  |  |  |

Appendix 9: Table 4.B
Moderate, Large and Very Large K-12 School District
Elementary School Model
At-Risk Education
$\left.\begin{array}{lcccc}\hline \hline & \text { Low At-Risk Concentration } & \begin{array}{c}\text { Moderate At-Risk } \\ \text { Concentration }\end{array} & \begin{array}{c}\text { High At-Risk Concentration }\end{array} \\ \hline \text { Enrollment } & 40 & & 80 & 160 \\ \text { Very High At-Risk } \\ \text { Concentration }\end{array}\right]$

## Appendix 9: Table 4.C <br> Moderate, Large and Very Large K-12 School District <br> Elementary School Model <br> Other Education Programs

|  | Gifted \& Talented | Special Education Preschool | Extended School Year | After School Programs | Summer School Programs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 28 | 13 | 12 | ½ At-Risk, LEP \& Special Ed | ½ At-Risk, LEP \& 23 Special Ed |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers |  | 2.0 | 1.5 |  |  |
| Other Teachers | 0.2 |  |  |  |  |
| Instructional Aides |  | 2.0 | 3.0 |  |  |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 | 10 days @ \$100 |  |  |
| Support Staff |  |  |  |  |  |
| Nurses |  |  | 1.0 |  |  |
| Psychologists |  | 0.2 |  |  |  |
| Social Workers |  | 0.2 |  |  |  |
| LDTC |  | 0.2 |  |  |  |
| Speech Therapist |  | 0.3 | 0.3 |  |  |
| Occupational Therapist |  | 0.3 | 0.3 |  |  |
| Physical Therapist |  | 0.3 | 0.3 |  |  |
| Other Costs |  |  |  |  |  |
| Professional |  | \$1,250 / personnel |  |  |  |
| Development |  |  |  |  |  |
| Supplies \& Materials | \$50 / pupil | \$200 / pupil |  |  |  |
| Equipment |  | \$50 / pupil |  | \$480 / pupil | \$400 / pupil |
| Assessment |  | \$25 / pupil |  |  |  |

## Appendix 9: Table 4.D <br> Moderate, Large and Very Large K-12 School District <br> Middle School Model <br> General, LEP and Special Education

|  | Regular Education | LEP | Spec. Education - Mild | Spec. Education Moderate | Spec. Education Severe |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 600 | 43 | 13 | 68 | 10 |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 43.0 | 2.0 |  |  | 2.0 |
| Other Teachers |  |  |  |  |  |
| Instructional Aides |  |  |  | 2.0 | 2.0 |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 |  | 10 days @ \$100 | 10 days @ \$100 |
| Resource Teacher |  |  |  | 6.0 |  |
| Self-Contained Teacher |  |  |  | 3.0 |  |
| Support Staff |  |  |  |  |  |
| Librarians / Media Specialists | 1.0 |  |  |  |  |
| Media Aides | 1.0 |  |  |  |  |
| Technology Specialists | 1.0 |  |  |  |  |
| Counselors | 2.5 |  |  |  |  |
| Nurses | 1.0 |  |  |  |  |
| Lunchroom Aides | 0.5 |  |  |  |  |
| Speech Therapist |  |  | 0.2 | 0.3 | 0.3 |
| Occupational Therapist |  |  |  | 0.2 | 0.3 |
| Physical Therapist |  |  |  | 0.2 | 0.3 |
| Administrative Staff |  |  |  |  |  |
| Principal | 1.0 |  |  |  |  |
| Assistant Principal | 1.0 |  |  |  |  |
| Clerical / Data Entry | 3.0 |  |  |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$320 / pupil | \$50 / pupil | \$25 / pupil | \$50 / pupil | \$150 / pupil |
| Equipment | \$50 / pupil |  |  |  |  |
| Technology | \$150 / pupil |  |  | \$1,350 | \$9,000 |
| Assessment | \$13,332 | \$50 / pupil |  |  |  |
| State Assessment | \$35 / tested student |  |  |  |  |
| Student Activities | \$150 / pupil |  |  |  |  |
| Security Guard | 1.0 |  |  |  |  |
| Safety \& Security | \$7,500 |  |  |  |  |

Appendix 9: Table 4.E
Moderate, Large and Very Large K-12 School District
Middle School Model

## At-Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk Concentration | High At-Risk Concentration | Very High At-Risk Concentration |
| :---: | :---: | :---: | :---: | :---: |
| Enrollment | 60 | 120 | 240 | 360 |
| Instructional Staff |  |  |  |  |
| Instructional Aides |  |  |  |  |
| Reading Specialists / Basic Skills | 1.0 | 3.0 | 6.0 | 6.0 |
| Support Staff |  |  |  |  |
| Social Workers |  |  | 1.0 | 1.0 |
| Parent Liaison |  |  |  |  |
| Other Costs |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$50 / pupil | \$50 / pupil | \$50 / pupil | \$50 / pupil |

## Appendix 9: Table 4.F

Moderate, Large and Very Large K-12 School District
Middle School Model
Other Education Programs

|  | Extended School Year | After School Programs | Summer School Programs |
| :---: | :---: | :---: | :---: |
| Enrollment | 22 | ½ At-Risk, LEP \& Special Education | $1 / 2$ At-Risk, LEP \& 23 Special Education |
| Instructional Staff |  |  |  |
| Classroom Teachers | 3.0 |  |  |
| Other Teachers |  |  |  |
| Instructional Aides | 3.0 |  |  |
| Substitute Teachers | 10 days @ \$100 |  |  |
| Support Staff |  |  |  |
| Nurses | 1.0 |  |  |
| Psychologists | 0.5 |  |  |
| Social Workers | 0.5 |  |  |
| LDTC | 0.5 |  |  |
| Speech Therapist | 0.4 |  |  |
| Occupational Therapist | 0.3 |  |  |
| Physical Therapist | 0.3 |  |  |
| Other Costs |  |  |  |
| Supplies \& Materials |  |  |  |
| Other |  | \$480 / pupil | \$400 / pupil |

## Appendix 9: Table 5.A

Moderate K-12 School District
High School Model

## General, LEP and Special Education

|  | Regular Education | LEP | Spec. Education - Mild | Spec. Education Moderate | Spec. Education Severe |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 760 | 24 | 18 | 85 | 13 |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 60.0 | 1.0 |  |  | 3.0 |
| Other Teachers |  |  |  |  |  |
| Instructional Aides |  |  |  | 2.0 | 6.5 |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 |  | 10 days @ \$100 | 10 days @ \$100 |
| Resource Teacher |  |  |  | 6.0 |  |
| Self-Contained Teacher |  |  |  | 2.0 |  |
| Support Staff |  |  |  |  |  |
| Librarians / Media Specialists | 1.0 |  |  |  |  |
| Media Aides | 1.0 |  |  |  |  |
| Technology Specialists | 1.0 |  |  |  |  |
| Counselors | 5.0 |  |  |  |  |
| Nurses | 1.0 |  |  |  |  |
| Lunchroom Aides |  |  |  |  |  |
| Speech Therapist |  |  | 0.1 | 0.1 | 0.4 |
| Occupational Therapist |  |  |  |  | 0.1 |
| Physical Therapist |  |  |  | 0.5 | 0.6 |
| Administrative Staff |  |  |  |  |  |
| Principal | 1.0 |  |  |  |  |
| Assistant Principal | 1.5 |  |  |  |  |
| Department Chairs | 2.0 |  |  |  |  |
| Clerical / Data Entry | 4.0 |  |  |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$400 / pupil | \$50 / pupil | \$25 / pupil | \$50 / pupil | \$150 / pupil |
| Equipment | \$75 / pupil |  |  |  | \$300 / pupil |
| Technology | \$150 / pupil |  |  | \$4,600 | \$1,000 |
| Assessment | \$16,887 | \$50 / pupil |  |  |  |
| State Assessment | \$35 / tested pupil |  |  |  |  |
| Student Activities | \$575 / pupil |  |  |  |  |
| Security Guard | 1.0 |  |  |  |  |
| Safety \& Security | \$7,500 |  |  |  |  |

## Appendix 9: Table 5.B

Moderate K-12 School District
High School Model
At-Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk Concentration |
| :--- | ---: | ---: |
| Enrollment | 76 | 152 |
|  |  |  |
| Instructional Staff |  |  |
| Instructional Aides | 1.0 |  |
| Reading Specialists / Basic Skills |  | 2.0 |
| Support Staff |  |  |
| Social Workers |  |  |
| Parent Liaison | $\$ 1,250 /$ personnel |  |
| Other Costs | $\$ 50 /$ pupil |  |
| Professional Development |  | $\$ 50 /$ pupil |
| Supplies \& Materials |  |  |

## Appendix 9: Table 5.C

Moderate K-12 School District
High School Model
Other Education Programs

|  | Extended School Year | After School Programs | Summer School Programs |
| :---: | :---: | :---: | :---: |
| Enrollment | 27 | At-Risk Students | $1 / 2$ At-Risk, LEP \& 20 Special Education |
| Instructional Staff |  |  |  |
| Classroom Teachers | 5.0 |  |  |
| Other Teachers |  |  |  |
| Instructional Aides | 7.5 |  |  |
| Substitute Teachers | 10 days @ \$100/day |  |  |
| Support Staff |  |  |  |
| Nurses |  |  |  |
| Psychologists | 0.6 |  |  |
| Social Workers | 0.6 |  |  |
| LDTC | 0.6 |  |  |
| Speech Therapist | 0.5 |  |  |
| Occupational Therapist | 0.3 |  |  |
| Physical Therapist | 0.3 |  |  |
| Other Costs |  |  |  |
| Supplies \& Materials |  |  |  |
| Other |  | \$36,000 | \$400 / pupil |

## Appendix 9: Table 6.A

## Large K-12 School District <br> High School Model <br> General, LEP and Special Education

|  | Regular Education | LEP | Spec. Education - Mild | Spec. Education Moderate | Spec. Education Severe |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 1,640 | 72 | 33 | 194 | 26 |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 128.0 | 3.0 |  |  | 5.0 |
| Other Teachers |  |  |  |  |  |
| Instructional Aides |  |  |  | 3.0 | 8.0 |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 |  | 10 days @ \$100 | 10 days @ \$100 |
| Resource Teacher |  |  |  | 8.0 |  |
| Self-Contained Teacher |  |  |  | 4.0 |  |
| Support Staff |  |  |  |  |  |
| Librarians / Media Specialists | 2.0 |  |  |  |  |
| Media Aides | 1.0 |  |  |  |  |
| Technology Specialists | 2.0 |  |  |  |  |
| Counselors | 9.0 |  |  |  |  |
| Nurses | 2.0 |  |  |  |  |
| Lunchroom Aides |  |  |  |  |  |
| Speech Therapist |  |  | 0.3 | 0.3 | 0.6 |
| Occupational Therapist |  |  |  | 0.5 | 0.4 |
| Physical Therapist |  |  |  | 0.5 | 0.4 |
| In-School Suspension | 1.0 |  |  |  |  |
| Administrative Staff |  |  |  |  |  |
| Principal | 1.0 |  |  |  |  |
| Assistant Principal | 3.0 |  |  |  |  |
| Department Chairs | 4.0 |  |  |  |  |
| Athletic Director | 1.0 |  |  |  |  |
| Clerical / Data Entry | 9.0 |  |  |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$400 / pupil | \$50 / pupil | \$25 / pupil | \$50 / pupil | \$150 / pupil |
| Equipment | \$75 / pupil |  |  |  |  |
| Technology | \$150 / pupil |  |  | \$2,700 | \$2,000 |
| Assessment | \$36,441 | \$50 / pupil |  |  |  |
| State Assessment | \$35 / tested pupil |  |  |  |  |
| Student Activities | \$400 / pupil |  |  |  |  |
| Security Guard | 3.0 |  |  |  |  |
| Safety \& Security | \$15,000 |  |  |  |  |

## Appendix 9: Table 6.B

## Large K-12 School District

High School Model
At-Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk Concentration | High At-Risk Concentration |
| :---: | :---: | :---: | :---: |
| Enrollment | 164 | 328 | 656 |
| Instructional Staff |  |  |  |
| Instructional Aides |  |  |  |
| Reading Specialists / Basic Skills | 2.0 | 4.0 | 8.0 |
| Substitute Teachers |  |  |  |
| Support Staff |  |  |  |
| Social Workers |  |  | 1.0 |
| Parent Liaison |  |  |  |
| Other Costs |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$50 / pupil | \$50 / pupil | \$50 / pupil |
| Security Guard |  | 1.0 | 4.0 |

## Appendix 9: Table 6.C

## Large K-12 School District

High School Model
Other Education Programs

|  | Extended School Year | After School Programs | Summer School Programs |
| :--- | ---: | ---: | ---: |
| Enrollment | 47 | At-Risk Students |  <br> 87 Special Education |
|  |  |  |  |
| Instructional Staff |  |  |  |
| Classroom Teachers | 6.0 |  |  |
| Other Teachers |  |  |  |
| Instructional Aides | 8.0 |  |  |
| Substitute Teachers | 10 days @ $\$ 100$ |  |  |
| Support Staff |  |  |  |
| Nurses |  |  |  |
| Psychologists | 0.6 |  |  |
| Social Workers | 0.6 |  |  |
| LDTC | 0.6 |  |  |
| Speech Therapist | 0.5 |  |  |
| Occupational Therapist | 0.3 |  |  |
| Physical Therapist | 0.3 |  |  |
| Other Costs |  | $\$ 24,000$ |  |
| Supplies \& Materials |  |  |  |
| Other |  |  |  |

## Appendix 9: Table 7.A <br> Very Large K-12 School District <br> High School Model <br> General, LEP and Special Education

|  | Regular Education | LEP | Spec. Education - Mild | Spec. Education - <br> Moderate | Spec. Education Severe |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Enrollment | 1,387 | 99 | 25 | 153 | 24 |
| Instructional Staff |  |  |  |  |  |
| Classroom Teachers | 109.0 | 4.0 |  |  | 5.0 |
| Other Teachers |  |  |  |  |  |
| Instructional Aides |  |  |  | 3.0 | 7.0 |
| Substitute Teachers | 10 days @ \$100 | 10 days @ \$100 |  | 10 days @ \$100 | 10 days @ \$100 |
| Resource Teacher |  |  |  | 7.0 |  |
| Self-Contained Teacher |  |  |  | 3.0 |  |
| Support Staff |  |  |  |  |  |
| Librarians / Media Specialists | 2.0 |  |  |  |  |
| Media Aides | 1.0 |  |  |  |  |
| Technology Specialists | 2.0 |  |  |  |  |
| Counselors | 8.5 |  |  |  |  |
| Nurses | 2.0 |  |  |  |  |
| Lunchroom Aides |  |  |  |  |  |
| Speech Therapist |  |  | 0.2 | 0.2 | 0.6 |
| Occupational Therapist |  |  |  | 0.2 | 0.4 |
| Physical Therapist |  |  |  | 0.2 | 0.4 |
| Administrative Staff |  |  |  |  |  |
| Principal | 1.0 |  |  |  |  |
| Assistant Principal | 2.0 |  |  |  |  |
| Department Chairs | 4.0 |  |  |  |  |
| Athletic Director | 1.0 |  |  |  |  |
| Clerical / Data Entry | 8.0 |  |  |  |  |
| Other Costs |  |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$400 / pupil | \$50 / pupil | \$25 / pupil | \$50 / pupil | \$150 / pupil |
| Equipment | \$75 / pupil |  |  |  |  |
| Technology | \$150 / pupil |  |  | \$4,000 | \$2,000 |
| Assessment | \$30,819 | \$50 / pupil |  |  |  |
| State Assessment | \$35 / tested pupil |  |  |  |  |
| Student Activities | \$400 / pupil |  |  |  |  |
| Security Guard | 3.0 |  |  |  |  |
| Safety \& Security | \$7,500 |  |  |  |  |

Appendix 9: Table 7.B
Very Large K-12 School District
High School Model
At-Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk Concentration | High At-Risk Concentration | Very High At-Risk Concentration |
| :---: | :---: | :---: | :---: | :---: |
| Enrollment | 139 | 277 | 555 | 832 |
| Instructional Staff |  |  |  |  |
| Instructional Aides |  |  |  |  |
| Reading Specialists / Basic | 2.0 | 3.5 | 7.0 | 7.0 |
| Skills |  |  |  |  |
| Support Staff |  |  |  |  |
| Counselor |  |  | 1.0 | 1.0 |
| Social Workers |  |  | 1.0 | 1.0 |
| Parent Liaison |  |  |  |  |
| Other Costs |  |  |  |  |
| Professional Development | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel | \$1,250 / personnel |
| Supplies \& Materials | \$50 / pupil | \$50 / pupil | \$50 / pupil | \$50 / pupil |
| Security Guards |  |  | 2.0 | 5.0 |
| School-Based Youth Services / |  |  | \$500,000 | \$500,000 |
| Health Clinic |  |  |  |  |

## Appendix 9: Table 7.C

## Very Large K-12 School District

## High School Model

Other Education Programs

|  | Extended School Year | After School Programs | Summer School Programs |
| :--- | ---: | ---: | ---: |
| Enrollment | 41 | At-Risk Students |  <br>  <br>  <br>  <br> Instructional Staff |
| Classroom Teachers |  |  |  |
| Other Teachers |  |  |  |
| Instructional Aides | 6.0 |  |  |
| Substitute Teachers |  |  |  |
| Support Staff | 7.0 |  |  |
| Nurses |  |  |  |
| Psychologists |  |  |  |
| Social Workers | 0.6 |  |  |
| LDTC | 0.6 |  |  |
| Speech Therapist | 0.6 |  |  |
| Occupational Therapist | 0.5 |  |  |
| Physical Therapist | 0.2 |  |  |
| Other Costs | 0.2 |  |  |
| Supplies \& Materials |  | $\$ 24,000$ |  |
| Other |  |  |  |

## Appendix 9: Table 8.A

Very Small K-8 School District Districtwide Resources - Personnel

|  | General Education |  |
| :--- | :--- | :--- |
| Superintendent | 1.0 |  |
| Directors | 0.5 |  |
| Business Administrator | 1.0 |  |
| Clerical / Data Entry | 2.0 |  |
| Custodians | 2.0 |  |
| Maintenance Workers | 1.0 |  |

# Appendix 9: Table 8.B <br> Very Small K-8 School District Districtwide Resources - Other Resources 

|  | General | Special Education |
| :--- | ---: | ---: |
| Home Instruction | $\$ 2,700$ |  |
| Out-of-District Placement | $\$ 20,000$ |  |
| Technology | $\$ 40 /$ pupil |  |
| Telecommunications | $\$ 100 /$ pupil |  |
| Textbooks | $\$ 2,500$ |  |
| Treasurer of School Moneys |  |  |
| Professional Development | $\$ 200 /$ personnel |  |
| - Custodial Staff | $\$ 750 /$ personnel |  |
| - Clerical Staff | $\$ 1,500 /$ personnel |  |
| - Professional Staff | $\$ 25,000$ |  |
| Insurance | $\$ 12,500$ |  |
| Legal | $\$ 2,500$ |  |
| Activities | $\$ 8 /$ pupil |  |
| Supplies | $\$ 58 /$ pupil |  |
| Maintenance Supplies | $\$ 1.34 /$ sq ft |  |
| Utilities | $\$ 4,000$ |  |
| Elections | $\$ 12,500$ |  |
| Association Fees |  |  |

## Appendix 9: Table 9.A

Small K-8 School District Districtwide Resources - Personnel

|  | General Education |  |
| :--- | :---: | :---: |
| Superintendent | 1.0 |  |
| Supervisors | 0.5 |  |
| Coordinators | 1.0 |  |
| Business Administrator | 1.0 |  |
| Clerical / Data Entry |  | 2.0 |
| Custodians | 3.0 |  |
| Maintenance Workers | 3.5 |  |

## Appendix 9: Table 9.B

Small K-8 School District Districtwide Resources - Other Resources

|  | General | Special Education |
| :--- | ---: | ---: |
| Home Instruction | $\$ 5,490$ |  |
| Out-of-District Placement | $\$ 20,000$ |  |
| Technology | $\$ 40 /$ pupil |  |
| Telecommunications | $\$ 100 /$ pupil |  |
| Textbooks | $\$ 2,500$ |  |
| Treasurer of School Moneys |  |  |
| Professional Development | $\$ 200 /$ personnel |  |
| - Custodial Staff | $\$ 750 /$ personnel |  |
| - Clerical Staff | $\$ 1,500 /$ personnel |  |
| - Professional Staff | $\$ 35,000$ |  |
| Insurance | $\$ 15,000$ |  |
| Legal | $\$ 5,000$ |  |
| Activities | $\$ 10,000$ |  |
| School Board | $\$ 8 /$ pupil |  |
| Supplies | $\$ 58 /$ pupil |  |
| Maintenance Supplies | $\$ 1.34 /$ sq ft |  |
| Utilities | $\$ 8,000$ |  |
| Elections | $\$ 3,500$ |  |
| Association Fees |  |  |

## Appendix 9: Table 10.A

Small K-12 School District
Districtwide Resources - Personnel

|  | General Education |  | Special Education |
| :--- | :---: | :---: | :---: |
| Superintendent | 1.0 |  |  |
| Assistant Superintendent | 1.0 |  |  |
| Directors |  |  |  |
| Supervisor | 1.0 |  |  |
| Business Administrator | 1.0 | 1.0 |  |
| Clerical / Data Entry | 5.0 |  |  |
| Psychologist |  | 1.0 |  |
| Social Worker |  | 1.0 |  |
| LDTC | 1.0 | 1.0 |  |
| Buildings \& Grounds Super. | 8.0 | 1.0 |  |
| Custodians | 2.0 |  |  |
| Maintenance Workers |  |  |  |

Appendix 9: Table 10.B
Small K-12 School District Districtwide Resources - Other Resources

|  | General | Special Education |
| :--- | ---: | ---: |
| Home Instruction | $\$ 12,480$ |  |
| Out-of-District Placement | $\$ 25,000$ |  |
| Technology | $\$ 40 /$ pupil |  |
| Telecommunications | $\$ 100 /$ pupil |  |
| Textbooks |  |  |
| Professional Development | $\$ 200 /$ personnel |  |
| - Custodial Staff | $\$ 750 /$ personnel |  |
| - Clerical Staff | $\$ 1,500 /$ personnel | $\$ 750 /$ personnel |
| - Professional Staff | $\$ 50,000$ | $\$ 1,500 /$ personnel |
| Insurance | $\$ 40,000$ |  |
| Legal | $\$ 10,000$ |  |
| Activities | $\$ 10,000$ |  |
| School Board | $\$ 8 /$ pupil |  |
| Supplies | $\$ 58 /$ pupil |  |
| Maintenance Supplies | $\$ 1.34 /$ sq ft |  |
| Utilities | $\$ 15,000$ |  |
| Elections | $\$ 5,000$ |  |
| School Physician | $\$ 8,000$ |  |
| Association Fees |  | $\$ 15,000$ |

Appendix 9: Table 11.A

## Moderate K-12 School District

 Districtwide Resources - Personnel|  | General Education | LEP | Special Education |
| :--- | :---: | :---: | :---: |
| Superintendent | 1.0 |  |  |
| Assistant Superintendent | 1.0 |  |  |
| Directors |  |  |  |
| Supervisors | 1.0 | 0.5 | 0.5 |
| Coordinators | 2.0 |  |  |
| Business Administrator | 1.0 |  |  |
| Facilities Manager | 1.0 |  |  |
| Clerical / Data Entry | 7.0 | 0.5 | 1.5 |
| Psychologist |  |  | 3.0 |
| Social Worker |  |  | 3.0 |
| LDTC | 18.0 | 3.0 |  |
| Custodians | 3.0 |  |  |
| Maintenance Workers | 3.0 |  |  |
| Groundskeepers |  |  |  |

Appendix 9: Table 11.B
Moderate K-12 School District Districtwide Resources - Other Resources

|  | General | LEP |
| :--- | ---: | ---: |
| Home Instruction | $\$ 15,000$ |  |
| Out-of-District Placement | $\$ 1,000$ | Special Education |
| Security | $\$ 50,000$ | $\$ 15,000$ |
| Technology | $\$ 40 /$ pupil |  |
| Telecommunications | $\$ 100 /$ pupil |  |
| Textbooks |  |  |
| Professional Development | $\$ 200 /$ personnel |  |
| - Custodial Staff | $\$ 750 /$ personnel |  |
| - Clerical Staff | $\$ 1,500 /$ personnel | $\$ 750 /$ personnel |
| - Professional Staff | $\$ 250,000$ | $\$ 1,500 /$ personnel |
| Insurance | $\$ 50,000$ |  |
| Legal | $\$ 10,000$ | $\$ 750 /$ personnel |
| Activities | $\$ 15,000$ |  |
| School Board | $\$ 8 /$ pupil |  |
| Supplies | $\$ 58 /$ pupil |  |
| Maintenance Supplies | $\$ 1.34 /$ sq ft |  |
| Utilities | $\$ 25,000$ |  |
| Elections | $\$ 5,000$ |  |
| School Physician | $\$ 15,000$ |  |
| Association Fees |  |  |
| Miscellaneous |  |  |

Appendix 9: Table 11.C
Moderate K-12 School District
Districtwide Resources - At Risk Education

|  | Low At-Risk Concentration |  |
| :--- | :---: | :---: |
| Contingency | $\$ 10,000$ | Moderate At-Risk Concentration |

## Appendix 9: Table 12.A

Large K-12 School District Districtwide Resources - Personnel

|  | General Education | LEP |  |
| :--- | :---: | :---: | :---: |
| Superintendent | 1.0 |  | Special Education |
| Assistant Superintendent | 2.0 |  |  |
| Directors | 4.0 |  |  |
| Supervisor | 1.0 | 0.5 | 1.0 |
| Coordinators | 4.0 |  |  |
| Business Administrator | 1.0 |  |  |
| Asst. Bus. Admin. | 1.0 |  |  |
| Facilities Manager | 1.0 |  |  |
| Business Clerks | 4.0 |  |  |
| Clerical / Data Entry | 10.0 |  |  |
| Technician | 1.0 |  |  |
| Teachers |  | 2.0 |  |
| Counselor |  |  | 5.0 |
| Psychologist |  |  | 5.0 |
| Social Worker | 40.0 | 0.5 | 5.0 |
| LDTC | 4.0 |  |  |
| Interpreter / Liaison |  |  |  |
| Custodians |  |  |  |
| Maintenance Workers |  |  |  |

# Appendix 9: Table 12.B 

Large K-12 School District Districtwide Resources - Other Resources

|  | General | LEP | Special Education |
| :--- | ---: | ---: | ---: |
| Home Instruction | $\$ 63,960$ |  | $\$ 2,075,000$ |
| Out-of-District Placement | $\$ 15,000$ |  |  |
| Security | $\$ 80,000$ |  | $\$ 50,000$ |
| Technology |  |  |  |
| Consultant / Technical Services | $\$ 40 /$ pupil |  |  |
| Telecommunications | $\$ 100 /$ pupil |  |  |
| Textbooks | $\$ 200 /$ personnel |  |  |
| Professional Development | $\$ 750 /$ personnel | $\$ 750 /$ personnel | $\$ 750 /$ personnel |
| - Custodial Staff | $\$ 1500 /$ personnel | $\$ 1500 /$ personnel | $\$ 1500 /$ personnel |
| - Clerical Staff | $\$ 800,000$ |  |  |
| - Professional Staff | $\$ 125,000$ |  | $\$ 20 /$ pupil |
| Insurance | $\$ 20,000$ |  |  |
| Legal | $\$ 8 /$ pupil |  |  |
| Activities | $\$ 58 /$ pupil |  |  |
| Supplies | $\$ 1.34 /$ sq ft |  |  |
| Maintenance Supplies | $\$ 35,000$ |  |  |
| Utilities | $\$ 25,000$ |  |  |
| Elections | $\$ 25,000$ |  |  |
| School Physician |  |  |  |
| Association Fees |  |  |  |

Appendix 9: Table 12.C
Large K-12 School District
Districtwide Resources - At Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk Concentration | High At-Risk Concentration |
| :--- | :---: | ---: | ---: |
| In-School Suspension | 2.0 | 4.0 | 8.0 |
| Guidance Counselor |  | 1.0 | 1.0 |
| Professional Development | $\$ 1,500 /$ personnel | $\$ 1,500 /$ personnel |  |

## Appendix 9: Table 13.A

## Very Large K-12 School District <br> Districtwide Resources - Personnel

|  | General Education | LEP | Special Education |
| :---: | :---: | :---: | :---: |
| Superintendent | 1.0 |  |  |
| Assistant Superintendent | 3.0 |  |  |
| Assistants to Superintendent | 2.0 |  |  |
| Directors | 5.0 |  | 1.0 |
| Supervisor | 3.0 | 1.0 | 5.0 |
| Coordinators | 7.0 | 1.0 |  |
| Business Administrator | 1.0 |  |  |
| Asst. Bus. Admin. | 1.0 |  |  |
| Purchasing Agent | 1.0 |  |  |
| Purchasing Clerk | 2.0 |  |  |
| Accountant | 1.0 |  |  |
| Facilities Manager | 2.0 |  |  |
| Business Clerks | 7.0 |  |  |
| Clerical / Data Entry | 14.0 | 1.0 | 6.0 |
| Technician | 3.0 |  |  |
| Programmer | 1.0 |  |  |
| Teachers |  | 5.0 |  |
| Interpreter |  | 1.0 |  |
| In-School Suspension |  |  |  |
| Psychologist |  |  | 14.0 |
| Social Worker |  |  | 14.0 |
| LDTC |  |  | 14.0 |
| Head Custodians | 8.0 |  |  |
| Custodians | 75.0 |  |  |
| Maintenance Workers | 9.0 |  |  |
| Groundskeepers | 15.0 |  |  |
| Security Guard |  |  |  |

Appendix 9: Table 13.B
Very Large K-12 School District Districtwide Resources - Other Resources

|  | General | LEP | Special Education |
| :---: | :---: | :---: | :---: |
| Home Instruction | \$162,000 |  |  |
| Out-of-District Placement |  |  | \$4,700,000 |
| Security | \$25,000 |  |  |
| Technology | \$125,000 |  | \$50,000 |
| Consultant Services |  |  | \$150,000 |
| Computer IEP |  |  | \$6,000 |
| Telecommunications | \$40 / pupil |  |  |
| Textbooks | \$100/pupil |  |  |
| Professional Development |  |  |  |
| - Custodial Staff | \$200 / personnel |  |  |
| - Clerical Staff | \$750 / personnel | \$750 / personnel | \$750 / personnel |
| - Professional Staff | \$1,500 / personnel | \$1,500 / personnel | \$1,500 / personnel |
| Insurance | \$1,750,000 |  |  |
| Legal | \$275,000 |  |  |
| Activities | \$25,000 |  |  |
| School Board | \$15,000 |  |  |
| Supplies | \$8/pupil | \$5 / pupil | \$20 / pupil |
| Maintenance Supplies | \$58/pupil |  |  |
| Utilities | \$1.34/sq ft |  |  |
| Elections | \$50,000 |  |  |
| Audit | \$60,000 |  |  |
| School Physician | \$30,000 |  |  |
| Association Fees | \$50,000 |  |  |

Appendix 9: Table 13.C
Very Large K-12 School District
Districtwide Resources - At Risk Education

|  | Low At-Risk Concentration | Moderate At-Risk <br> Concentration | High At-Risk Concentration | Very High At-Risk <br> Concentration |
| :--- | ---: | ---: | ---: | ---: |
| Director | 1.0 |  | 1.0 | 2.0 |
| Clerical / Data Entry | 1.0 |  | 1.0 | 1.0 |
| Teachers | 7.0 |  | 7.0 | 4.0 |
| In-School Suspension | 4.5 | 4.5 | 4.5 |  |
|  |  |  |  |  |
| Professional Development |  |  |  |  |
| - Clerical Staff |  |  |  |  |
| - Professional Staff | $\$ 750 /$ personnel | $\$ 750 /$ personnel |  |  |

# Appendix 10 <br> Personnel Costs Used in PJP Analysis 

|  | Salary | Benefits | Total Cost | Data Source ${ }^{21,22,23}$ |
| :--- | ---: | ---: | ---: | :--- |
| School-Level Staff |  |  |  |  |
| Instruction |  |  |  |  |
| Classroom Teacher | $\$ 51,066$ | $\$ 10,213$ | $\$ 61,279$ | Median Salary: Certificated Staff Data 2004-2005 |
| Other Teacher | $\$ 51,066$ | $\$ 10,213$ | $\$ 61,279$ | Median Salary: Certificated Staff Data 2004-2005 |
| Instructional Aides | $\$ 18,173$ | $\$ 3,635$ | $\$ 21,808$ | Median Salary: NJEA Salary Data 2002-2003 (Inflated by 4.8057 |
| Reading Specialist | $\$ 70,411$ | $\$ 14,082$ | $\$ 84,493$ | percent) |
| Median Salary: Certificated Staff Data 2004-2005 |  |  |  |  |
| Resource Teacher/In- | $\$ 51,066$ | $\$ 10,213$ | $\$ 61,279$ | Median Salary: Certificated Staff Data 2004-2005 |
| Class |  |  |  |  |
| Self-Contained/Pull Out | $\$ 51,066$ | $\$ 10,213$ | $\$ 61,279$ | Median Salary: Certificated Staff Data 2004-2005 |
| Teacher |  |  |  |  |
| Substitute Teacher | $\$ 100 /$ day | N/A | $\$ 100 /$ day | PJP Panelists Recommendation |
|  |  |  |  |  |
| Student Support |  |  |  |  |
| Librarian | $\$ 70,705$ | $\$ 14,141$ | $\$ 84,846$ | Median Salary: Certificated Staff Data 2004-2005 |
| Media Aide | $\$ 16,685$ | $\$ 3,337$ | $\$ 20,022$ | Median Salary: NJEA Salary Data 2002-2003 (Inflated by 4.8057 |
|  |  |  |  | percent) |
| Technology Specialist | $\$ 44,120$ | $\$ 8,824$ | $\$ 52,944$ | Median Salary: Bureau of Labor Statistics (Occupational Code 15- |
|  |  |  |  | 1041: Computer Support Specialist) - Nov. 2004 |
| Guidance Counselor | $\$ 72,902$ | $\$ 14,580$ | $\$ 87,482$ | Median Salary: Certificated Staff Data 2004-2005 |
| Nurse | $\$ 53,440$ | $\$ 10,688$ | $\$ 64,128$ | Median Salary: Certificated Staff Data 2004-2005 |
| Psychologist | $\$ 66,410$ | $\$ 13,282$ | $\$ 79,692$ | Median Salary: Certificated Staff Data 2004-2005 |
| Pocial Worker | $\$ 56,975$ | $\$ 11,395$ | $\$ 68,370$ | Median Salary: Certificated Staff Data 2004-2005 |
| Occupational Therapist | $\$ 56,277$ | $\$ 11,255$ | $\$ 67,532$ | Median Salary: Certificated Staff Data 2004-2005 |
| Physical Therapist | $\$ 64,139$ | $\$ 12,828$ | $\$ 76,967$ | Median Salary: Certificated Staff Data 2004-2005 |
| Learning Disabled | $\$ 75,689$ | $\$ 15,138$ | $\$ 90,827$ | Median Salary: Certificated Staff Data 2004-2005 |
| Teacher Consultant |  |  |  |  |

[^12]|  | Salary | Benefits | Total Cost | Data Source ${ }^{21,22,23}$ |
| :---: | :---: | :---: | :---: | :---: |
| Speech Therapist | \$65,200 | \$13,040 | \$78,240 | Median Salary: Certificated Staff Data 2004-2005 |
| Parent Liaison | \$23,216 | \$4,643 | \$27,859 | Median Salary: NJEA Salary Data 2002-2003 (Inflated by 4.8057 percent) |
| Lunchroom Aide | \$10,444 | \$2,089 | \$12,533 | Median Salary: NJEA Salary Data 2002-2003 (Inflated by 4.8057 percent) |
| Security Guard | \$21,610 | \$4,322 | \$25,932 | Median Salary: Bureau of Labor Statistics (Occupational Code 339032: Security Guards) - Nov. 2004 |
| Administration |  |  |  |  |
| Principal-Elem. | \$109,217 | \$21,843 | \$131,060 | Median Salary: Certificated Staff Data 2004-2005 |
| Asst. Principal - Elem. | \$92,520 | \$18,504 | \$111,024 | Median Salary: Certificated Staff Data 2004-2005 |
| Principal - Middle | \$111,619 | \$22,324 | \$133,943 | Median Salary: Certificated Staff Data 2004-2005 |
| Asst. Principal - Middle | \$91,991 | \$18,398 | \$110,389 | Median Salary: Certificated Staff Data 2004-2005 |
| Principal - High | \$120,906 | \$24,181 | \$145,087 | Median Salary: Certificated Staff Data 2004-2005 |
| Asst. Principal - High | \$100,897 | \$20,179 | \$121,076 | Median Salary: Certificated Staff Data 2004-2005 |
| Director | \$96,425 | \$19,285 | \$115,710 | Median Salary: Certificated Staff Data 2004-2005 |
| Clerical / Data Entry | \$33,680 | \$6,736 | \$40,416 | Median Salary: Bureau of Labor Statistics (Occupational Code 436014: Secretaries) - Nov. 2004 |
| District-Level Staff |  |  |  |  |
| Superintendent (Has no Asst. Superintendent) | \$130,200 | \$26,040 | \$156,240 | Median Salary: Certificated Staff Data 2004-2005 |
| Superintendent (Has Asst. Superintendent) | \$159,282 | \$31,856 | \$191,138 | Median Salary: Certificated Staff Data 2004-2005 |
| Asst. Superintendent | \$133,473 | \$26,695 | \$160,168 | Median Salary: Certificated Staff Data 2004-2005 |
| Asst. to the | \$44,370 | \$8,874 | \$53,244 | Median Salary: Bureau of Labor Statistics (Occupational Code 43- |
| Superintendent |  |  |  | 6011: Executive Secretaries) - Nov. 2004 |
| Director | \$109,772 | \$21,954 | \$131,726 | Median Salary: Certificated Staff Data 2004-2005 |
| Supervisor | \$99,220 | \$19,844 | \$119,064 | Median Salary: Certificated Staff Data 2004-2005 |
| Coordinator | \$85,656 | \$17,131 | \$102,787 | Median Salary: Certificated Staff Data 2004-2005 |
| Business Administrator | \$99,470 | \$19,894 | \$119,364 | Median Salary: Certificated Staff Data 2004-2005 |
| Asst. Business | \$59,682 | \$11,936 | \$71,618 | 60\% of Business Administrator |
| Administrator |  |  |  |  |
| Purchasing Agent | \$54,580 | \$10,916 | \$65,496 | Median Salary: Bureau of Labor Statistics (Occupational Code 131023: Purchasing Agents) - Nov. 2004 |


|  | Salary | Benefits | Total Cost | Data Source ${ }^{21,22,23}$ |
| :---: | :---: | :---: | :---: | :---: |
| Purchasing Clerk | \$34,100 | \$6,820 | \$40,920 | Median Salary: Bureau of Labor Statistics (Occupational Code 433061: Procurement Clerk) - Nov. 2004 |
| Accountant | \$58,940 | \$11,788 | \$70,728 | Median Salary: Bureau of Labor Statistics (Occupational Code 132011: Accountants \& Auditors) - Nov. 2004 |
| Facilities Manager | \$99,220 | \$19,844 | \$119,064 |  |
| Business Clerk | \$33,830 | \$6,766 | \$40,416 | Median Salary: Bureau of Labor Statistics (Occupational Code 433031: Bookkeeping, Accounting and Auditor Clerks) - Nov. 2004 |
| Technician | \$44,120 | \$8,824 | \$52,944 | Median Salary: Bureau of Labor Statistics (Occupational Code 151041: Computer Support Specialist) - Nov. 2004 |
| Programmer | \$72,010 | \$14,402 | \$86,412 | Median Salary: Bureau of Labor Statistics (Occupational Code 151021: Computer Programmers) - Nov. 2004 |
| Other District-wide Costs |  |  |  |  |
| Head Custodian | \$36,450 | \$7,290 | \$43,740 | Median Salary: Bureau of Labor Statistics (Occupational Code 371011: Supervisors, Janitorial Workers) - Nov. 2004 |
| Custodian | \$20,690 | \$4,138 | \$24,828 | Median Salary: Bureau of Labor Statistics (Occupational Code 372011: Janitors \& Cleaners) - Nov. 2004 |
| Maintenance Worker | \$35,530 | \$7,106 | \$42,636 | Median Salary: Bureau of Labor Statistics (Occupational Code 499042: Maintenance \& Repair, general) - Nov. 2004 |
| Groundskeeper | \$22,560 | \$4,512 | \$27,072 | Median Salary: Bureau of Labor Statistics (Occupational Code 373011: Landscaping and Groundskeeping) - Nov. 2004 |

## Appendix 11

Expenditure Line Items Included in Program Cost Comparison Analysis

| Line | Description |
| :--- | :--- |
| Number | Total Regular Programs - Instruction |
| 2710 | Total Special Education - Instruction |
| 4800 | Total Basic Skills/Remedial - Instruction |
| 4890 | Total Bilingual Education - Instruction |
| 4980 | Total Vocational Programs - Local - Instruction |
| 5070 | Total Regular Vocational Programs - Instruction |
| 5350 | Total Special Vocational Programs - Instruction |
| 5630 | Total School Sponsored Co-curricular Activities - Instruction |
| 6080 | Total School Sponsored Athletics - Instruction |
| 6140 | Total Other Instructional Programs - Instruction |
| 6200 | Total Community Services Programs/Operations |
| 6260 | Total Undistributed Expenditures - Instruction (Tuition) |
| 6360 | Total Undistributed Expenditures - Attendance \& Social Work |
| 6420 | Total Undistributed Expenditures - Health Services |
| 6480 | Total Undistributed Expenditures - Oth. Support Services - Related Services |
| 6485 | Total Undistributed Expenditures - Oth. Support Services - Extraordinary Services |
| 6705 | Total Undistributed Expenditures - Support Services - Regular |
| 6570 | Total Undistributed Expenditures - Support Services - Special |
| 6680 | Total Undistributed Expenditures - Improvement of Instruction Services |
| 6840 | Total Undistributed Expenditures - Educ. Media Services/School Library |
| 6900 | Total Undistributed Expenditures - Instructional Staff Training Services |
| 7610 | Total Undistributed Expenditures - General Administration |
| 7000 | Total Undistributed Expenditures - School Administration |
| 7090 | Required Maintenance for School Facilities |
| 7625 | Other Operations and Maintenance of Plant Services |
| 7636 | Business and Other Support Services |
| 7500 | Central Services |
| 7150 | Admin. Information Technology |
| 7185 | Allocated Benefits: Total Regular Programs - Instruction |
| 20210 | Allocated Benefits: Total Special Programs - Instruction |
| 20320 | Allocated Benefits: Total Vocational Programs - Instruction |
| 20430 | Allocated Benefits: Total Other Instructional Programs - Instruction |
| 20540 | Allocated Benefits: Total Community Services Programs/Operations |
| 20710 | Allocated Benefits: Total Attendance and Social Work Services |
| 20820 | Allocated Benefits: Total Health Services |
| 20930 | Allocated Benefits: Total Other Support Services - Students -Regular |
| 21320 | Allocated Benefits: Total Other Support Services - Students - Special |
| 21430 | Allocated Benefits: Total Improvement of Instruction Services |
| 21540 | Allocated Benefits: Total Educational Media Services/School Library |
| 21710 | Allocated Benefits: Total Instructional Staff Training Services |
| 21820 | Allocated Benefits: General Administration |
| 21930 | Allocated Benefits: School Administration |
| 22040 |  |
|  |  |
|  |  |


| Line | Description |
| :--- | :--- |
| Number |  |
| 22210 | Allocated Benefits: Operations and Maintenance of Plant |
| 22430 | Allocated Benefits: Business and Other Support Services |
| 22710 | Unallocated Benefits |
| 22850 | Allocated Benefits: Central Services |
| 22950 | Allocated Benefits: Admin. Information Technology |
| 8230 | Total Equipment |
| 13480 | Demonstrably Effective Program Aid - Total Instruction |
| 13640 | Demonstrably Effective Program Aid - Total Support Services |
| 13850 | Distance Learning Network Aid - Total Support Services |
| 14080 | Instructional Supplement Aid - Total Instruction |
| 14240 | Instructional Aid - Total Support Services |
| MINUS |  |
| Multiple | T.P.A.F. Contributions - ERIP |
| Lines |  |
| Multiple | Other Retirement Contributions - ERIP |
| Lines |  |
| 2505 | Preschool - Salaries of Teachers |
| 2506 | Local Contribution - Transfer to Special Revenue |
| 2511 | Local Contribution - Transfer to Special Revenue |
| 2705 | Abbott Parity - Set Aside |
| 6980 | Judgments Against the School District |
| 7620 | Increase in Maintenance Reserve |
| 7629 | Rental of Land \& Buildings other than Lease-Purchase Agreement |
| 7355 | Increase in Sale/Lease-back Reserve |
| 7120 | Sale/Lease-back Payment |
| 7130 | Interest on Current Loans |
| 7135 | Interest on Lease Purchase Agreements |
| 7140 | Interest on Bond Anticipation Notes |
| 8180 | Equipment: School Buses - Regular |
| 8190 | Equipment: School Buses - Special |
| 8220 | Equipment: Special Schools (All Programs) |
| 13580 | Demonstrably Effective Program Aid: Rentals |
| 13590 | Demonstrably Effective Program Aid: Transportation |
| 13800 | Distance Learning Network Aid: Rentals |
| 14180 | Instructional Supplement Aid: Rentals |
| 14190 | Instructional Supplement Aid: Transportation |
| 195 | Tuition from Individuals |
| 196 | Tuition from Other LEAs Within the State |
| 197 | Tuition from Other LEAs Outside the State |
| 198 | Tuition from Other Sources |
|  |  |
|  |  |


[^0]:    ${ }^{1}$ If sufficient data are available, one can conduct the analysis at the school, rather than the district level.
    ${ }^{2}$ A Costing Out Primer, published by the National Access Network. The report is available at www.schoolfunding.info/resource center/costingoutprimer.php3.
    ${ }^{3}$ A Costing Out Primer.

[^1]:    4 "Calculation of the Cost of an Adequate Education in Maryland in 1999 - 2000 Using Two Different Analytic Approaches" Augenblick and Myers, Inc., September 2001.

[^2]:    ${ }^{5}$ The four State assessments are the New Jersey Assessment of Knowledge and Skills for third and fourth grade (NJ ASK3 and NJ ASK4), the Grade Eight Proficiency Assessment (GEPA) and the High School Proficiency Assessment (HSPA).

[^3]:    ${ }^{6}$ One district was omitted due to an insufficient number of students taking all tests administered in the district that year.

[^4]:    ${ }^{7}$ For the purpose of this analysis, low-income, special education and limited English proficiency data were obtained from the districts' Application for State School Aid. The Special Education Annual Data Report was used to obtain information on the number of students who only receive speech therapy services.

[^5]:    ${ }^{8}$ The median salary observed in current data for each position was used in the costing-out process. The median is a preferred measure relative to the mean because it is less likely to be positively or negatively skewed by outlying observations.
    ${ }^{9}$ Total base costs may not equal the sum of total general education cost and district level cost due to rounding.

[^6]:    ${ }^{10}$ For the purposes of this analysis, instructional and administrative expenditures are defined in a manner consistent with the Uniform Chart of Accounts for New Jersey Public Schools. This document can be found at http://www.nj.gov/njded/finance/fp/af/coa/coa.pdf.

[^7]:    ${ }^{11}$ William J. Fowler, Jr. and David H. Monk, A Primer for Making Cost Adjustments in Education, U. S. Department of Education, Office of Educational Research and Improvement, March 2001.
    ${ }^{12}$ A detailed discussion of the GCEI is beyond the scope of this report. Readers who would like to read more information can access a copy of Chambers' report at http://nces.ed.gov/pubs98/9804.pdf (last accessed on November 16, 2006).

[^8]:    13 "Calculation of the Cost of a Suitable Education in Kansas in 2000-2001 Using Two Different Analytic Approaches," May 2002.
    ${ }^{14}$ Equity and Adequacy in Funding to Improve Learning for All Children
    15 "Calculation of the Cost of an Adequate Education in Maryland in 1999 - 2000 Using Two Different Analytic Approaches," September 2001.
    16 "The New York Adequacy Study: Determining the Cost of Providing All Children in New York and Adequate Education" Volume 2 - Technical Appendices, March 2004
    17 "Estimating the Cost of an Adequate Education in South Dakota," Augenblick, Palaich and Associates, Inc, January 17, 2006, Table V-1B.

[^9]:    18 "Funding Our Future: An Adequacy Model for Wisconsin School Finance" Institute for Wisconsin's Future, June 2002

[^10]:    ${ }^{19}$ In the 2004-2005 school year, the first year in which the school funding formula would be effective, the junior and senior classes will be required to have 10 credits in visual, performing, and/or practical arts with no requirement for technological literacy, career education and life skills. These same students will also be required to complete 10 credits in world languages.

[^11]:    ${ }^{20}$ The listings in Appendices 6 through 8 reflect the individuals who were invited to participate in the professional judgment panels. To ensure open discussion, DOE personnel did not attend and the consultants did not record attendance. As a result, the names listed in this appendix would not account for individuals who were unable to attend without providing notice in advance.

[^12]:    ${ }^{21}$ All salaries taken from the Certificated Staff Data include a 1.5 percent increase recommended by Dr. Augenblick.
    ${ }^{22}$ The 4.8057 percent inflation adjustment is based on the CPI for the interim years ( 2.11 percent and 2.64 percent).
    ${ }^{23}$ Bureau of Labor Statistics salary data are taken from the State Occupational Employment and Wage Estimates available at http://www.bls.gov/oes/current/oessrcst.htm.

